

# C19.2 SUPPLEMENT

Quarter-Turns  
Swinghandles  
Multi-Point Latches  
Latches  
Locks  
Fasteners  
Hinges  
Gaskets  
Handles



# Additions to the Main Catalog C19.

In our new brochure C19.2, discover all DIRAK **product innovations** as well as an updated listing of all product components that cannot be found in the main catalog C19.

At the same time, the new fold-out pictogram system on this page allows you to quickly and easily compare product advantages at all times and at a glance.

The DIRAK **overall range** of over 4,500 products can still be found on our website, **DIRAK.com**.

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All measurements in the catalog are given in mm.

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|   |  |  |
|---|--|--|
|     | All (=black)/some (=gray) products on this page have this feature            |  |
|    | Stainless steel  |  |
|    | Pr14.1: cutout size 14,1 mm/<br>Pr20.1: cutout size 20,1 mm                  |  |
|    | Standard cutout size swinghandle   |  |
|    | Hygienic design  |  |
|    | Product line base  |  |
|    | Profile half-cylinder in accordance with DIN 18252                           |  |
|    | Safety-tested in accordance with DIN EN 1627                                 |  |
|    | Product suitable for round rod/flat rod                                      |  |
|    | Product is grounded if correctly installed                                   |  |
|    | Captive seal: foamed PUR seal/pressed in o-ring                              |  |
|    | Shock- and vibration-tested in accordance with DIN EN 61373                  |  |
|  | IP protection classes 54, 65, 67, 66, 69K as respectively indicated          |  |
|  | RH/LH application  |  |
|  | Tool-less installation   |  |
|  | Maximum recommended tightening torque for securing nuts of the quarter-turns |  |
|  | Max. recommended tightening torque for the serrated screw                    |  |
|  | Individual or adjacent cabinets  |  |
|  | Door nested, hinge visible/invisible   |  |
|  | Door surface-mounted, hinge visible/partly visible/invisible                 |  |
|  | Opening angle of hinges from 90° to 360°                                     |  |
|  | Hinge lift-off   |  |
|  | UR/UL certification  |  |
|  | UL-listed materials  |  |
|  | Conforms to RoHS and WEEE directives   |  |
|  | Specific accessories   |  |



# pioneering: for 25 years.

With your requirements in focus and pioneering ideas on our minds, we have been developing and selling innovative fitting components for industrial enclosures since 1991. Thanks to a high number of patents and an international orientation, we have developed into one of the leading technology and system suppliers in the field.

**Whether mechanical or mechatronic – take advantage of our expertise for your application:**



**Machinery and plant engineering**



**Sheet metal working industry**



**Transportation / vehicle construction**



**Food production**



**Energy and environmental technology**



**Medical equipment construction**



**Data center, IT**



**Heating, ventilation, air-conditioning (HVAC)**



**Traffic engineering / tunnel construction**



precise:  
every day, down to the detail.



Our specialists and development partners take an interdisciplinary approach and **work closely with one another**. They develop solutions from individual conception and production planning through the strictly supervised production process all the way to delivery. That is how we ensure a complete service chain, all the way to order fulfillment.

more than **4,500** catalog-products



#### Installation and logistics center

Location: Sprockhövel, Germany

- Automated small parts warehouse with a continuous conveyance system from receipt of goods to shipment
- Over 200 commissionings per hour
- 19,200 storage spaces
- More than 300 packages per day

#### Corporate headquarters

Location: Ennepetal, Germany



over **500** employees worldwide

**ENGINEERED  
IN GERMANY  
SINCE 1991**

The construction and assembly in two locations in Germany on the basis of the highest quality standards ensures the distribution of only top-quality products.

**SNAP**

With particular competence in the field of tool-less installation, we develop solutions for fixing and quickly connecting diverse components.

over

**400**

**patents**

**E-LINE**  
by DIRAK

Our brand for mechatronic locking solutions, **E-LINE by DIRAK**, offers product systems in a modular design for data and server racks, outdoor enclosures and industrial applications. With our product solutions, you can control access to and manage the security of your enclosures – whether it's as a stand-alone solution or integrated into a management system. The entire product range can be found at [elinebydirak.com](http://elinebydirak.com).

Find solutions  
on [DIRAK.com](http://DIRAK.com)





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Multi-point latches > 3-200

Products Solutions Company News Services Contact

## DIRAK 3-200 Rod Latch with Compression RS/FS PRC

Material:  
 - Housing, rods, clamps, pinion: zinc die



**Benefits:**

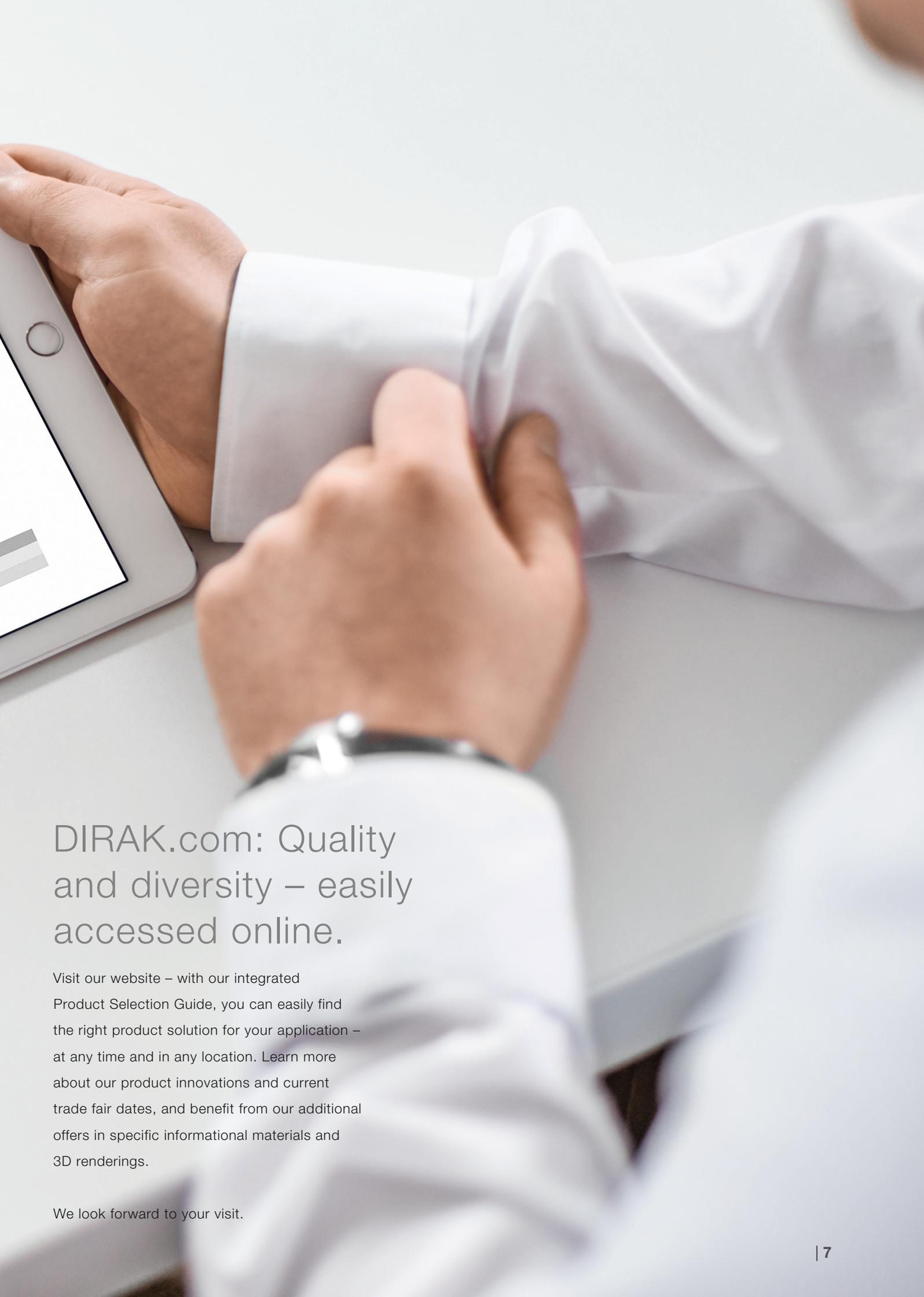
- Rod Latch with compression 4mm.
- The closing process in two steps:
  - 1. A 90° turn of the Swinghandle brings the cam into the locked position.
  - 2. With another 45° turn the cam is pressed by 4mm against the clamping surface.
- Constant contact pressure over the entire edge length.
- Installation within the sealed area.
- Single or multi-point latching by using of additional latching devices.
- The connecting rods between the latching devices can be fixed easily in clamps.
- Round rods Ø 8mm or Flat rods 3x1.4mm can be used.
- Oblong hole allows tolerance compensation of the housings.
- Usable with Swinghandles PRC opening and closing operation 135°.
- Please contact DIRAK.
- Stroke 23mm.
- Rotation of the cam 65°.
- RH and LH Version.

| Rod latch with compression, 2 rods |                   | Version | Installation type |
|------------------------------------|-------------------|---------|-------------------|
| <input type="checkbox"/>           | Part Number       | LH      | screw-on          |
| <input type="checkbox"/>           | 208-9076.00-00000 | RH      | screw-on          |

| Part Number       | Version | Stroke |
|-------------------|---------|--------|
| 208-9076.00-00000 | LH      | 23 mm  |
| 208-9077.00-00000 | RH      | 23 mm  |

To wish list  
 Download as PDF  
 Deselect

Rod latch with compression, 1 rod



## DIRAK.com: Quality and diversity – easily accessed online.

Visit our website – with our integrated Product Selection Guide, you can easily find the right product solution for your application – at any time and in any location. Learn more about our product innovations and current trade fair dates, and benefit from our additional offers in specific informational materials and 3D renderings.

We look forward to your visit.

# Product Overview



**12 PA Fastener**  
9.5 and 12.7  
SNAP-LINE



**13 Captive Flex-Fastener**  
9.5  
SNAP-LINE



**14 Captive Flex-Fastener**  
9.5  
SNAP-LINE



**15 Captive Fastener**  
9.5 SNAP-LINE



**16 Captive Fastener**  
12.7 SNAP-LINE



**17 Fastener 9.5**  
SNAP-LINE



**18 Captive Fastener**  
9.5 SNAP-LINE



**19 Captive Fastener**  
18.7 SNAP-LINE



**20 Fastener 30x14**  
SNAP-LINE



**21 Cam Catch**  
SNAP-LINE



**22 Compression**  
Latch Pr19.1



**25 Compression**  
Latch Pr22.1  
with Flap



**26 Quarter-Turn**  
Pr20.1 L12



**29 Safety Quarter-Turn**  
Pr20.1 L18



**30 Quarter-Turn 2K**  
Pr20.1 L18



**32 Quarter-Turn PrA**  
SNAP-LINE



**34 Quarter-Turn**  
Pr20.1 L18



**35 Roller Cam**  
height adjustable



**36 Flush Quarter-Turn**  
L22-66



**39 Cylinder Quarter-Turn**  
Pr20.1  
L30-50



**40 Flush Latch with**  
integrated Hinge  
Function



**42 Rod Guides for**  
8 mm Round  
Rods



**43 Rod Guides**



**44 Cam Adapter and**  
Spacer



**45 Dust Cap and**  
Sealing Plug  
Pr20.1



**46 Finger Pull for**  
Quarter-Turn  
Pr20.1



**47 LED Module for**  
Quarter-Turns  
Pr20.1



**48 Sliding Door Latch**



**52 Swinghandle RS**  
PrC SNAP-LINE



**54 Swinghandle RS**  
110 SNAP-LINE



**56 Swinghandle RS**  
110 SNAP-LINE



**58 Swinghandle RS**  
PrC SNAP-LINE



**50 Swinghandle RS PrC with Cylinder Barrel**



**60** Swinghandle zinc die RS 105 for PHZ, RC II



**62** Dual Cylinder Swinghandle RS 105 PA



**64** Dual Cylinder Swinghandle RS 130 PA



**66** Catch for standard Cams



**67** Grounding Clip



**68** Escutcheon for Rod Latch PrA



**69** Cutout-Cover PrA, PrB and PrC SNAP-LINE



**70** Swinghandle base



**71** Swinghandle base with LED Module



**72** Compression Rod Latch RS/FS PrC



**74** Rod Latch Adapter for Compression Rod Latch



**75** Rods for Compression Rod Latch



**76** Swinghandle for Compression Rod Latch



**78** Flat Rod Guide FS



**79** Dual Hook FS



**80** Concealed Hinge Pr03 125°



**81** Concealed Hinge Pr03 120°



**82** Concealed Hinge Pr03 120°



**83** Concealed Hinge Pr03 120°



**84** Concealed Hinge Pr03 120°



**85** Concealed Hinge Pr03 120°



**86** Concealed Hinge Pr03 120°



**87** Concealed Hinge Pr03 120°



**88** Concealed Hinge Pr03 120°



**89** Corner Hinge Pr04 180°



**90** Concealed Hinge Pr02 120° SNAP-LINE



**91** Hinge PA 60x40 Pr01 180°



**92** Clip-on Sealing Profiles



**93** Screw Assembly for Terminal Box Cover



**94** Cage Nuts



**95** Cage Nuts



**96** Wire Catch SNAP-LINE



**97** Cable Management Device 12.7 SNAP-LINE



**98** Cable Management Device 9.5 SNAP-LINE



**99** Clip-on Radius R30 SNAP-LINE



**100** Cable Tie Mount SNAP-LINE



**101** Cable Tie Mount 9.5 and 12.7 SNAP-LINE



**103** Velcro Cable Tie



**104** Slam Latch for Profile-Cylinder



**105** Slam Latch for two Profile-Cylinder



**106** Slam Latch for Insert



**107** Lock Support for Slam Latch



**108** Snap-Lock SNAP-LINE



**109** Bridge Clamp



**110** Adjustable Clamping Levers



**111** Compression Latch SNAP-LINE



**112** Locking Pin with Handle SNAP-LINE



**113** Window oval



**114** Locking Bar System 10



**115** Locking Bar System 13



**116** Locking Bar System 16



**118** Compression Latch PHZ



**120** 2-Point Latch PHZ, vertical



**124** 2-Point Latch PHZ, horizontal



**128** Compression Latch PHZ with Lock Cover



**142** Compression Latch with Spring Loaded Flap



**130** 2-Point Latch PHZ with Lock Cover



**134** 2-Point Latch PHZ with Lock Cover



**138** Compression Latch for Insert



**141** Latching Device



144 Safety Quarter-Turn Pr20.1 L18



145 Slam-Cam for Quarter-Turns Pr20.1



146 Height Adjustable Cam L45 SNAP-LINE



147 Catch for Cams Pr20.1



148 Compression Latch Pr20.1



150 Compression Latch Pr20.1



153 Quarter-Turn Pr20.1 L18



154 Quarter-Turn with Insert SW13 Pr20.1 L18



155 Hygiene Quarter-Turn with Insert Square SW13



156 Hygiene Quarter-Turn with T-Handle



157 Hygiene Quarter-Turn with L-Handle



158 Hygiene Compression Latch



160 Quarter-Turn Pr20.1 L18-50



161 Cylinder Quarter-Turn Pr20.1 L18



162 Cams L35/45 without Ramp and Stop



163 3- and 4-point Cam Adapter



164 Concealed Hinge Pr03 125°



165 Concealed Hinge Pr03 120°



166 Concealed Hinge Pr03 120°



167 Concealed Hinge Pr03 120°



168 Concealed Hinge Pr03 120°



169 Concealed Hinge Pr03 120°



174 Toggle-Latch



170 Concealed Hinge Pr03 120°



171 Concealed Hinge Pr03 120°



172 Hinge Pr01 180°



173 Hinge Pr01 270°



175 Toggle-Latch



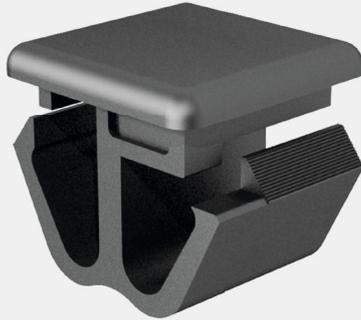
176 Rod Guide

SNAP

DIN  
61373



RoHS  
WEEE



Polyamide, clip-in Fastener for 9.5 or 12.7 cutout or with 10 mm gap, e.g. aluminium profiles.

**Features**

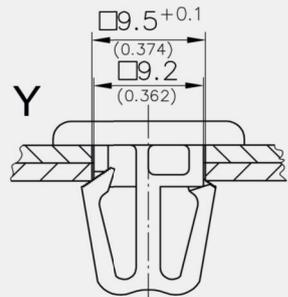
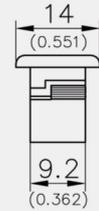
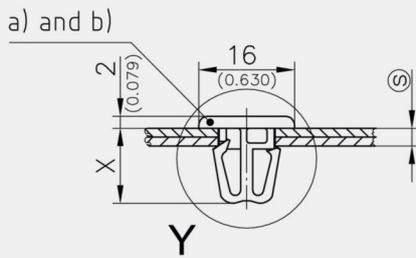
- Clips into the installation cutout for simple tool-less installation.
- Audible click ensures proper secure installation.
- The square base 9.2 and 12.5 prevents the joiner from turning within the installation cutout.

**Material and surface**

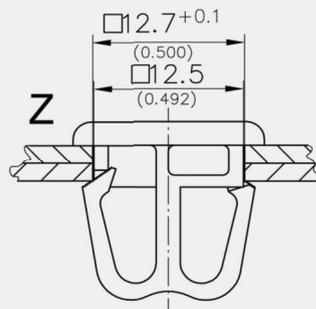
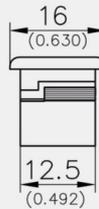
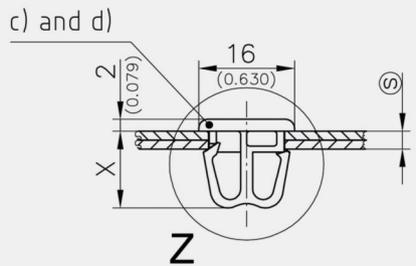
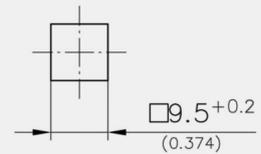
Fastener: PA, black

**Note**

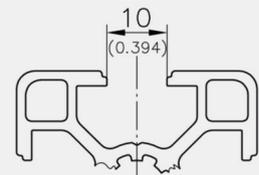
The (S) dimension indicates the total thickness of the sheet metal panels.



Cutout for a) and b)  
incl. paint



Aluminium profile  
fit for a) and b)



Cutout for c) and d)  
incl. paint



**Fastener**

|    | Part Number       | Version | Clamping range (S) | Dimension X | Installation type | packaging unit |
|----|-------------------|---------|--------------------|-------------|-------------------|----------------|
| a) | 214-0109.51-00000 | 9.5     | 3,0–3,5            | 12.6        | tool-less         | 250            |
| b) | 214-0109.51-10000 | 9.5     | 4,0–4,5            | 13.6        | tool-less         | 250            |
| c) | 214-0109.51-20000 | 12.7    | 3,0–3,5            | 13          | tool-less         | 250            |
| d) | 214-0109.51-30000 | 12.7    | 4,0–4,5            | 14          | tool-less         | 250            |

For joining of flat metal sheets acc. to Machinery Directive 2006/42EC (captive connection of locking devices). Operation by Phillips H2.

**Features**

- Meets machinery directive 2006/42EC.
- Eliminates the concern of loosening, dropping or misplacing hardware.
- Held securely in the cutout.
- Vibration-proof.
- Opening by a ¼ turn of the insert.
- Self-adjusting clamping range of 0.5–5.5 mm.
- Connects panels and securely latches doors and covers.
- One-piece.

**Material and surface**

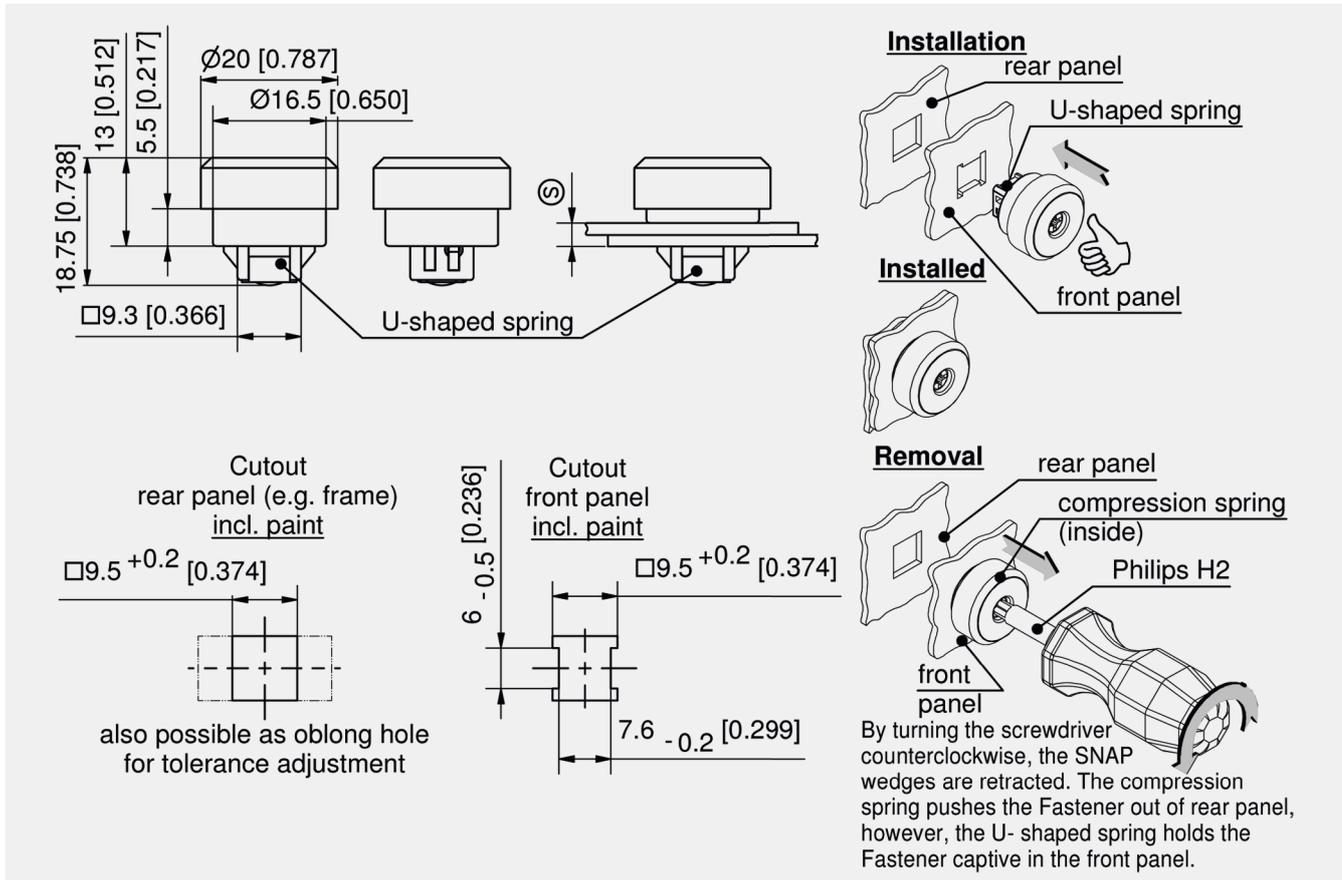
- Housing and washer:** zinc die, chrome plated
- Insert:** aluminium, hardened
- U-shaped spring:** stainless steel
- Compression spring:** spring steel, zinc plated
- SNAP wedges:** sintered steel

**Note**

The (S) dimension indicates the total thickness of the sheet metal panels.



**SNAP**  
**DIN 61373**  
**RoHS WEEE**



**Fastener**

| Part Number       | Clamping range (S) | Insert      | Vibration-proof | Captive | Installation type |
|-------------------|--------------------|-------------|-----------------|---------|-------------------|
| 294-9302.00-00055 | 0,5–5,5            | Phillips H2 | Yes             | Yes     | tool-less         |

SNAP

DIN  
61373

RoHS  
WEEE



For joining of flat metal sheets acc. to Machinery Directive 2006/42EC (captive connection of locking devices). Operation by handwheel.

**Features**

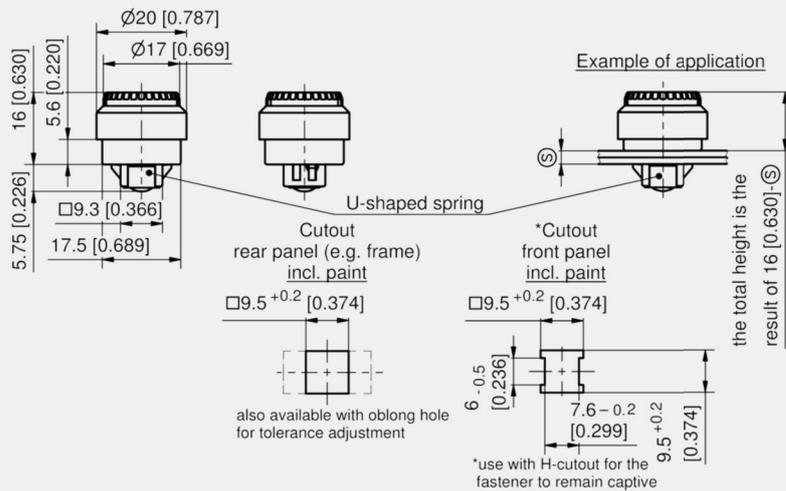
- Meets machinery directive 2006/42EC.
- Eliminates the concern of loosening, dropping or misplacing hardware.
- Held securely in the cutout.
- Vibration-proof.
- Opening by a ¼ turn of the handwheel.
- Self-adjusting clamping range of 0.5–5.5 mm.
- Connects panels and securely latches doors and covers.
- One-piece.

**Material and surface**

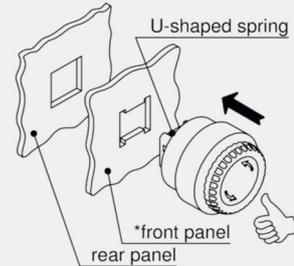
- Housing and washer:** zinc die, chrome plated
- Handwheel:** PA6, black
- U-shaped spring:** stainless steel
- Compression spring:** spring steel, zinc plated
- Snap wedges:** sintered steel, zinc plated

**Note**

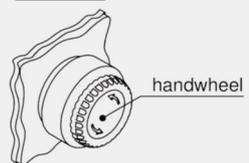
The (S) dimension indicates the total thickness of the sheet metal panels.



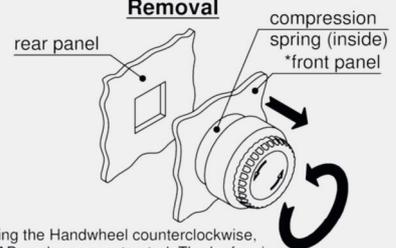
**Installation**



**Installed**



**Removal**



By turning the Handwheel counterclockwise, the SNAP wedges are retracted. The leaf spring pushes the Fastener out of the rear panel, however, the U-shaped spring holes the Fastener captive in the front panel.

**Fastener**

| Part Number       | Clamping range (S) | Insert    | Vibration-proof | Captive | Installation type |
|-------------------|--------------------|-----------|-----------------|---------|-------------------|
| 294-9303.00-00055 | 0,5–5,5            | Handwheel | Yes             | Yes     | tool-less         |

Captive Fastener for fastening together flat metal panels.

### Features

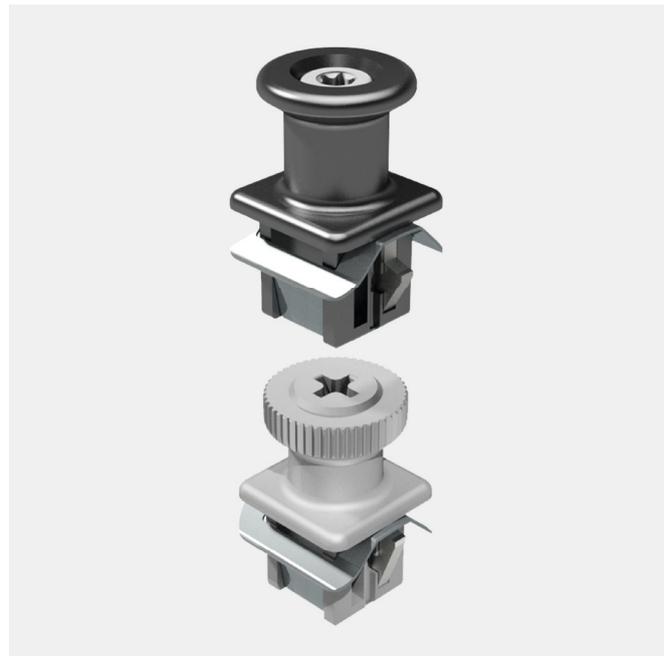
- Meets machinery directive 2006/42EC.
- Eliminates the concern of loosening, dropping or misplacing hardware.
- Held securely in the cutout.
- Vibration-proof.
- Opening by a ¼ turn of the insert.
- Clamping range see table.
- Connects panels and securely latches doors and covers.
- One-piece.

### Material and surface

- Housing:** zinc die, chrome plated or black
- Insert:** aluminium, anodized
- U-shaped spring and leaf spring:** stainless steel
- Snap wedges:** sintered steel, zinc plated

### Note

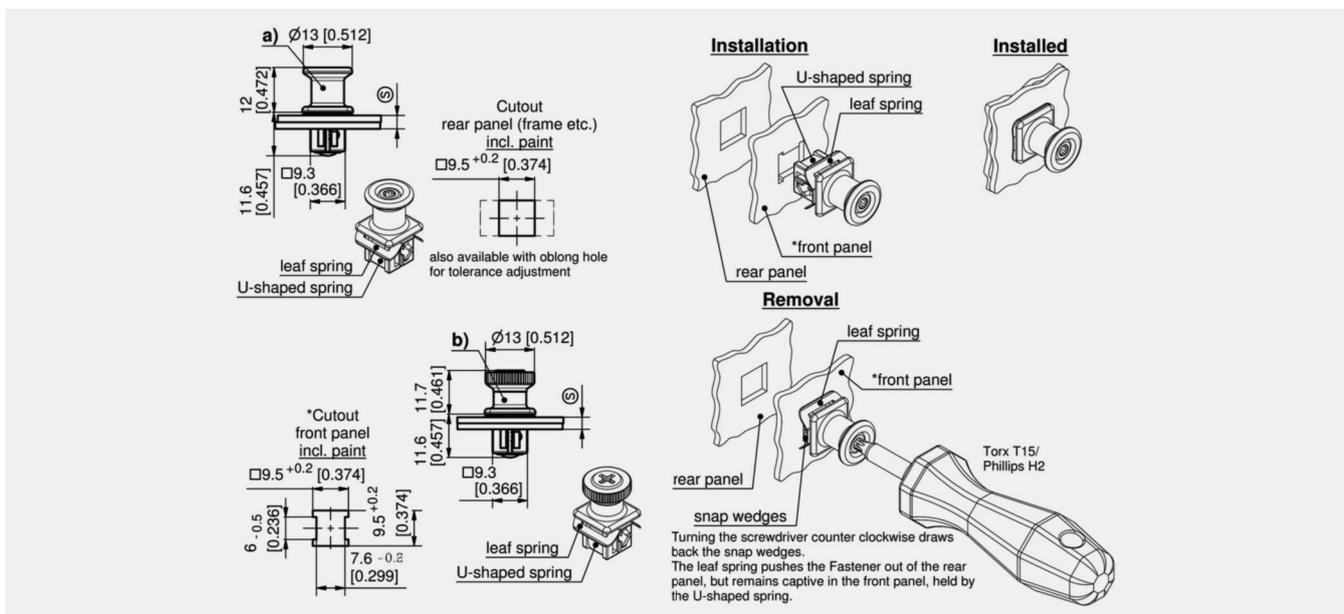
The (S) dimension indicates the total thickness of the sheet metal panels.



SNAP

DIN 61373

RoHS WEEE



### Fastener, zinc die, chrome plated

|    | Part Number       | Clamping range (S) | Insert                   | Vibration-proof | Captive | Installation type |
|----|-------------------|--------------------|--------------------------|-----------------|---------|-------------------|
| b) | 294-9210.00-00017 | 1,5–2,0            | Turning knob/Phillips H2 | Yes             | Yes     | tool-less         |
| b) | 294-9210.00-00026 | 2,5–2,8            | Turning knob/Phillips H2 | Yes             | Yes     | tool-less         |
| b) | 294-9210.00-00034 | 3,3–3,6            | Turning knob/Phillips H2 | Yes             | Yes     | tool-less         |
| b) | 294-9210.00-00042 | 4,1–4,4            | Turning knob/Phillips H2 | Yes             | Yes     | tool-less         |

### Fastener, zinc die, black

|    | Part Number       | Clamping range (S) | Insert                   | Vibration-proof | Captive | Installation type |
|----|-------------------|--------------------|--------------------------|-----------------|---------|-------------------|
| a) | 294-9220.00-00138 | 3,7–4,0            | Torx Insert              | Yes             | Yes     | tool-less         |
| b) | 294-9211.00-00017 | 1,5–2,0            | Turning knob/Phillips H2 | Yes             | Yes     | tool-less         |
| b) | 294-9211.00-00026 | 2,5–2,8            | Turning knob/Phillips H2 | Yes             | Yes     | tool-less         |
| b) | 294-9211.00-00034 | 3,3–3,6            | Turning knob/Phillips H2 | Yes             | Yes     | tool-less         |
| b) | 294-9211.00-00042 | 4,1–4,4            | Turning knob/Phillips H2 | Yes             | Yes     | tool-less         |

SNAP

DIN 61373

RoHS WEEE



For joining of flat metal sheets acc. to Machinery Directive 2006/42EC (captive connection of locking devices). Operation by Phillips H2.

**Features**

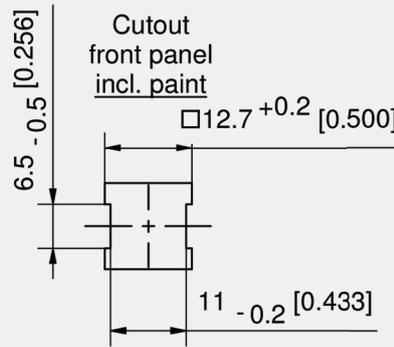
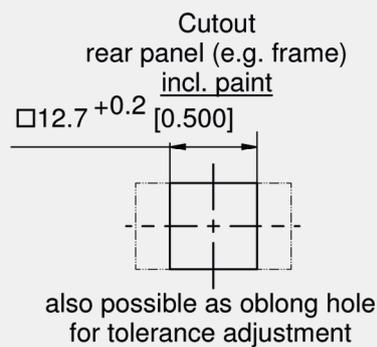
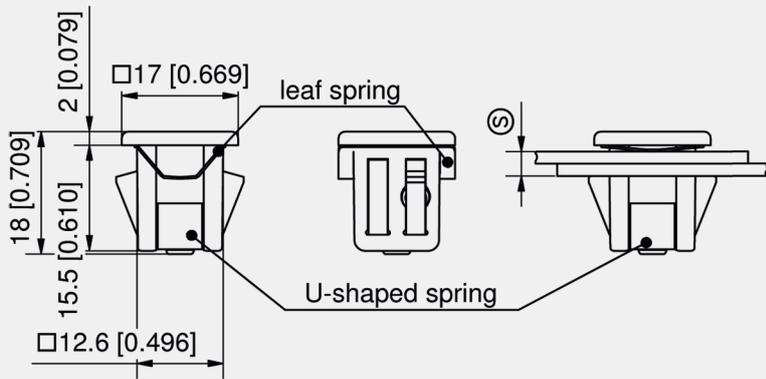
- Meets machinery directive 2006/42EC.
- Eliminates the concern of loosening, dropping or misplacing hardware.
- Held securely in the cutout.
- Vibration-proof.
- Opening by a ¼ turn of the insert Phillips H2.
- Clamping range see table.
- Connects panels and securely latches doors and covers.
- One-piece.

**Material and surface**

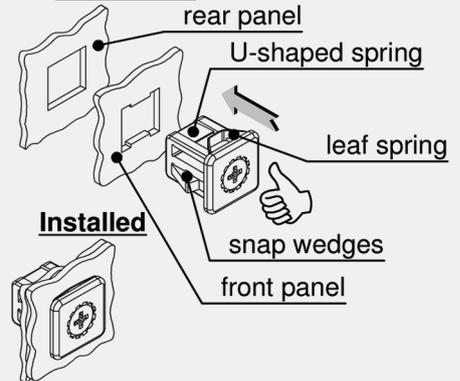
- Housing:** zinc die, untreated
- Snap wedges:** sintered steel
- Insert:** aluminium, hardened
- U-shaped spring:** spring steel
- Leaf spring:** stainless steel

**Note**

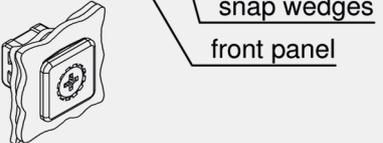
The (S) dimension indicates the total thickness of the sheet metal panels.



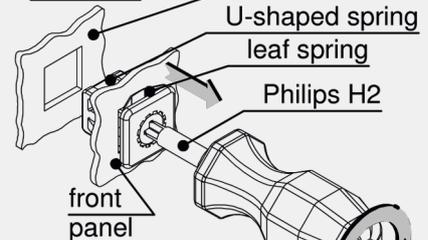
**Installation**



**Installed**



**Removal**



By turning the screwdriver counterclockwise, the SNAP wedges are retracted. The leaf spring pushes the Fastener out of rear panel, however, the U-shaped spring holds the Fastener captive in the front panel.

**Fastener**

| Part Number       | Clamping range (S) | Insert      | Vibration-proof | Captive | Installation type |
|-------------------|--------------------|-------------|-----------------|---------|-------------------|
| 294-9103.00-00021 | 1,4-1,9            | Phillips H2 | Yes             | Yes     | tool-less         |
| 294-9103.00-00031 | 2,4-2,9            | Phillips H2 | Yes             | Yes     | tool-less         |
| 294-9103.00-00036 | 2,9-3,4            | Phillips H2 | Yes             | Yes     | tool-less         |
| 294-9103.00-00041 | 3,4-3,9            | Phillips H2 | Yes             | Yes     | tool-less         |
| 294-9103.00-00046 | 3,9-4,4            | Phillips H2 | Yes             | Yes     | tool-less         |
| 294-9103.00-00056 | 4,9-5,4            | Phillips H2 | Yes             | Yes     | tool-less         |
| 294-9103.00-00061 | 5,4-5,9            | Phillips H2 | Yes             | Yes     | tool-less         |
| 294-9103.00-00066 | 5,9-6,4            | Phillips H2 | Yes             | Yes     | tool-less         |

Fastener for joining sheet metal panels.

**Features**

- Sheet metal panels are easily joined by manually pushing the Fastener through the panel cutout.
- This Fastener can be disengaged from the front of the panel using a flathead screwdriver.
- Save up to 90% assembly time.
- One-piece.

**Material and surface**

- Housing:** zinc die, untreated
- SNAP wedges:** sintered steel
- Leaf spring:** stainless steel

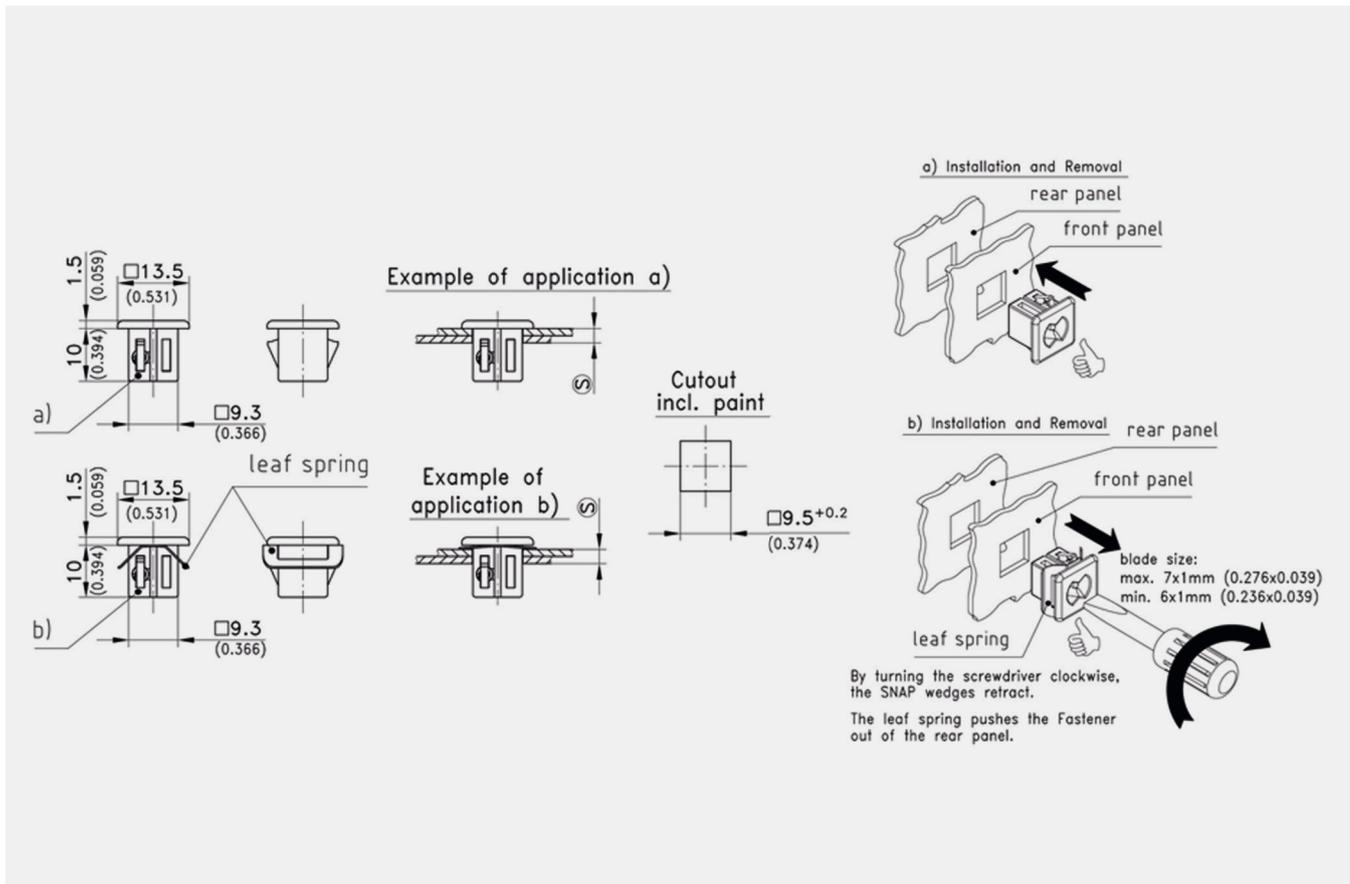
**Note**

The (S) dimension indicates the total thickness of the sheet metal panels.



SNAP

RoHS  
WEEE



**Fastener**

|    | Part Number       | Version             | Clamping range (S) | Insert  | Vibration-proof | Installation type |
|----|-------------------|---------------------|--------------------|---------|-----------------|-------------------|
| a) | 294-9117.00-00022 | without leaf spring | 2,0–2,5            | slotted | Yes             | tool-less         |
| a) | 294-9117.00-00031 | without leaf spring | 3,0–3,3            | slotted | Yes             | tool-less         |
| a) | 294-9117.00-00035 | without leaf spring | 3,4–3,7            | slotted | Yes             | tool-less         |
| a) | 294-9117.00-00043 | without leaf spring | 4,2–4,5            | slotted | Yes             | tool-less         |
| b) | 294-9116.00-00017 | with leaf spring    | 1,5–2,0            | slotted | Yes             | tool-less         |
| b) | 294-9116.00-00026 | with leaf spring    | 2,5–2,8            | slotted | Yes             | tool-less         |
| b) | 294-9116.00-00030 | with leaf spring    | 2,9–3,2            | slotted | Yes             | tool-less         |
| b) | 294-9116.00-00038 | with leaf spring    | 3,7–4,0            | slotted | Yes             | tool-less         |

SNAP

DIN 61373

RoHS WEEE



For joining of flat metal sheets acc. to Machinery Directive 2006/42EC (captive connection of locking devices). Operation by Phillips H2.

**Features**

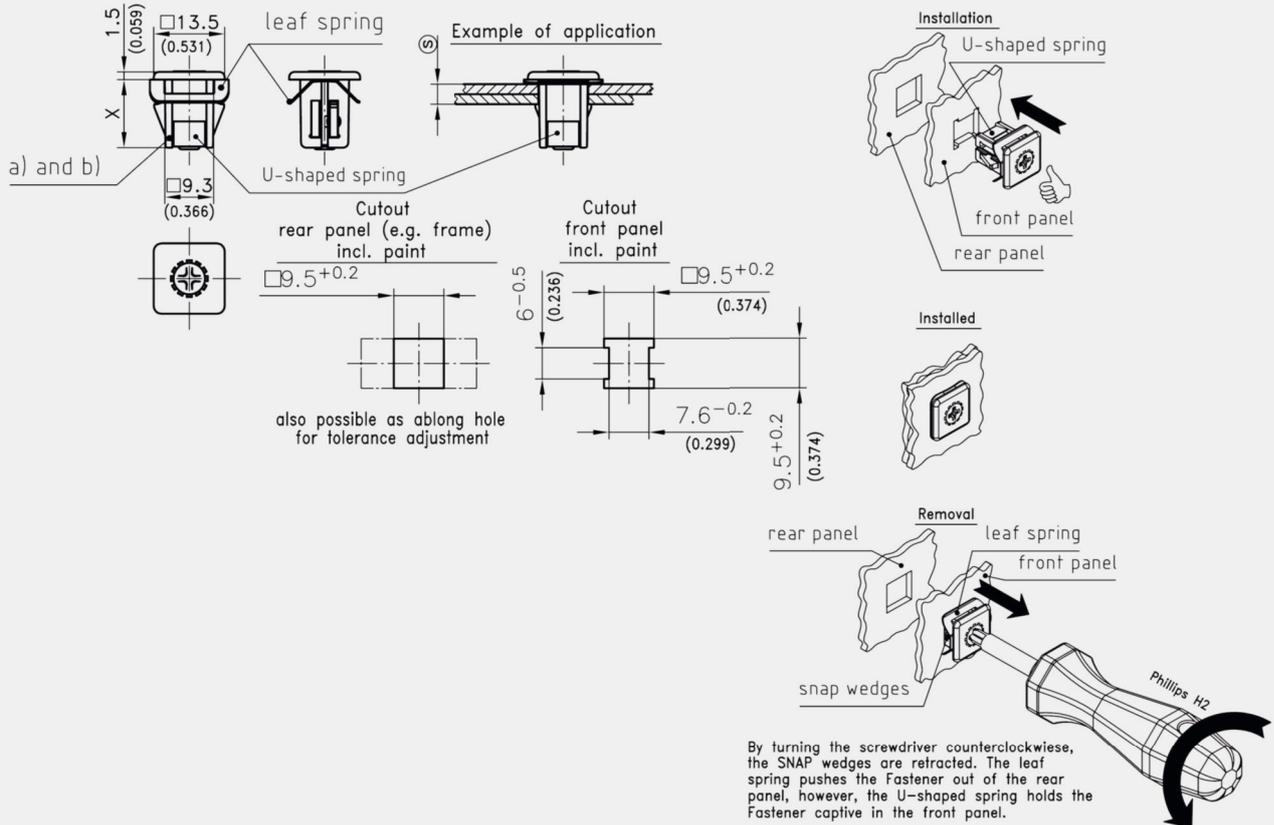
- Meets machinery directive 2006/42EC.
- Eliminates the concern of losing, dropping or misplacing hardware.
- Held securely in the cutout.
- Vibration-proof.
- Opening by a ¼ turn of the insert Phillips H2.
- Connects panels and securely latches doors and covers.
- One-piece.

**Material and surface**

- Housing:** zinc die, untreated
- SNAP wedges:** sintered steel
- Insert:** aluminium, hardened
- U-shaped spring:** spring steel, zinc plated
- Leaf spring:** stainless steel

**Note**

The (S) dimension indicates the total thickness of the sheet metal panels.



**Fastener**

|    | Part Number       | Clamping range (S) | Insert      | Vibration-proof | Dimension X | Captive | Installation type |
|----|-------------------|--------------------|-------------|-----------------|-------------|---------|-------------------|
| a) | 294-9112.00-00017 | 1,5–2,0            | Phillips H2 | Yes             | 11          | Yes     | tool-less         |
| a) | 294-9112.00-00026 | 2,5–2,8            | Phillips H2 | Yes             | 11          | Yes     | tool-less         |
| a) | 294-9112.00-00030 | 2,9–3,2            | Phillips H2 | Yes             | 11          | Yes     | tool-less         |
| a) | 294-9112.00-00034 | 3,3–3,6            | Phillips H2 | Yes             | 11          | Yes     | tool-less         |
| a) | 294-9112.00-00042 | 4,1–4,4            | Phillips H2 | Yes             | 11          | Yes     | tool-less         |
| b) | 294-9118.00-00037 | 3,5–4,0            | Phillips H2 | Yes             | 13          | Yes     | tool-less         |
| b) | 294-9118.00-00046 | 4,5–4,8            | Phillips H2 | Yes             | 13          | Yes     | tool-less         |
| b) | 294-9118.00-00050 | 4,9–5,2            | Phillips H2 | Yes             | 13          | Yes     | tool-less         |
| b) | 294-9118.00-00054 | 5,3–5,6            | Phillips H2 | Yes             | 13          | Yes     | tool-less         |
| b) | 294-9118.00-00062 | 6,1–6,4            | Phillips H2 | Yes             | 13          | Yes     | tool-less         |

For joining of flat metal sheets acc. to Machinery Directive 2006/42EC (captive connection of locking devices).

### Features

- Meets machinery directive 2006/42EC.
- Pushed into the front panel (sheet thickness max. 3 mm) and permanently secured by the U-shaped spring (1.).
- Can be dismantled of the rear panel from the front with the tool for uninstalla-tion 292-0312.83-00000.
- One-piece, tool-less installation.
- Oblong hole possible, for tolerance adjustment.

### Material and surface

**Housing and Snap wedges:** zinc die, zinc plated

**U-shaped spring:** stainless steel AISI 301

### Note

The (S) dimension indicates the total thickness of the sheet metal panels.

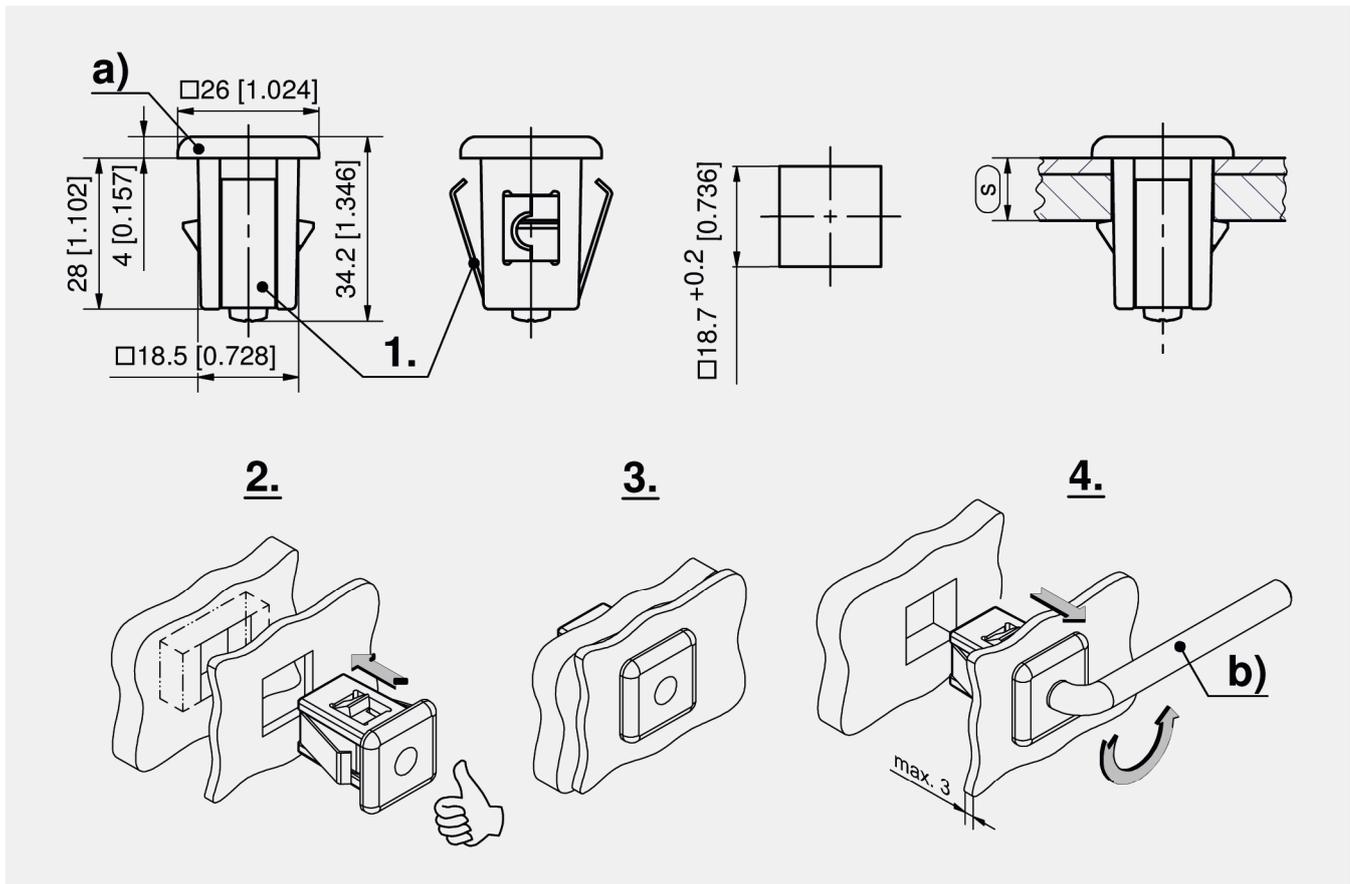
By turning the tool for uninstalla-tion counter clockwise the snap wedges are drawn back. The U-shaped spring holds the fastener captive in the front panel.

- 2. = Installation
- 3. = Installed
- 4. = Removal



SNAP

RoHS  
WEEE



### Fastener

|    | Part Number       | Clamping range (S) | Captive                  | Installation type |
|----|-------------------|--------------------|--------------------------|-------------------|
| a) | 294-8004.00-00001 | 11,5–11,8          | Yes                      | tool-less         |
|    | 292-0312.83-00000 |                    | Tool for uninstalla-tion |                   |

SNAP



DIN 61373

RoHS WEEE



Fastener for joining flat metal sheets.

**Features**

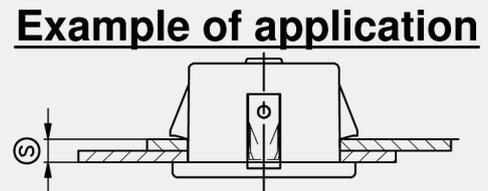
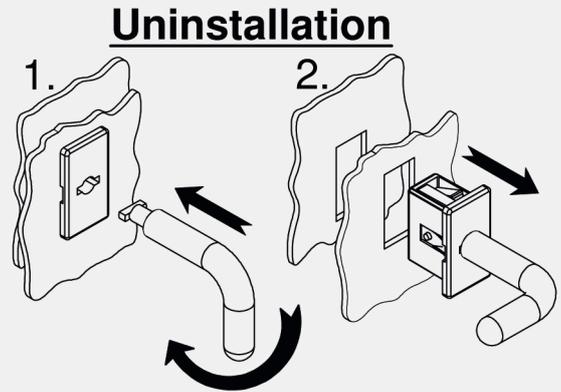
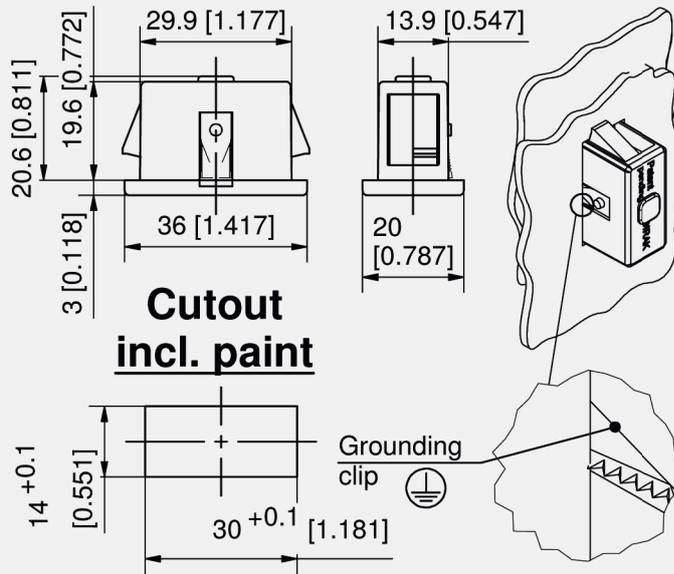
- The connection of the sheets is established via a simple clip-in into its cutout.
- The riveted grounding clip assures an electrical connection between the sheets and the fastener itself.
- The teeth of the riveted grounding clip penetrate the painted cutting edge of the cutouts as well.
- By using the tool for uninstalla-tion 292-0311.15 a disassem-bly from the front is possible.

**Material and surface**

**Housing:** zinc die, black  
**Snap wedges:** sintered steel  
**Grounding clip:** stainless steel

**Note**

The (S) dimension indicates the total thickness of the sheet metal panels.



Fastener

| Part Number       | Clamping range (S) | Vibration-proof | Grounding | Installation type |
|-------------------|--------------------|-----------------|-----------|-------------------|
| 294-9003.00-00034 | 3,0-3,7            | Yes             | Yes       | tool-less         |
| 294-9003.00-00043 | 4,0-4,5            | Yes             | Yes       | tool-less         |
| 294-9003.00-00052 | 5,0-5,5            | Yes             | Yes       | tool-less         |
| 294-9003.00-00063 | 6,0-6,5            | Yes             | Yes       | tool-less         |

|   |                   |                         |
|---|-------------------|-------------------------|
| ✱ | 292-0311.15-00000 | Tool for uninstallation |
|---|-------------------|-------------------------|

| Function extension | Part Number       |
|--------------------|-------------------|
| Cutout-cover       | 292-0402.00-03014 |

## Concealed Cam Catch.

### Features

- RH / LH application.
- Tool-less clip-in assembly into a 30 x 10 mm cutout in the frame.
- Available in 2 different heights, 10 mm and 16 mm.
- IP65 according to DIN EN 60529 by using O-ring 839-3770.00-02022.

### Material and surface

- **Cam catch:** zinc die, black
- **Snap wedges:** sintered steel

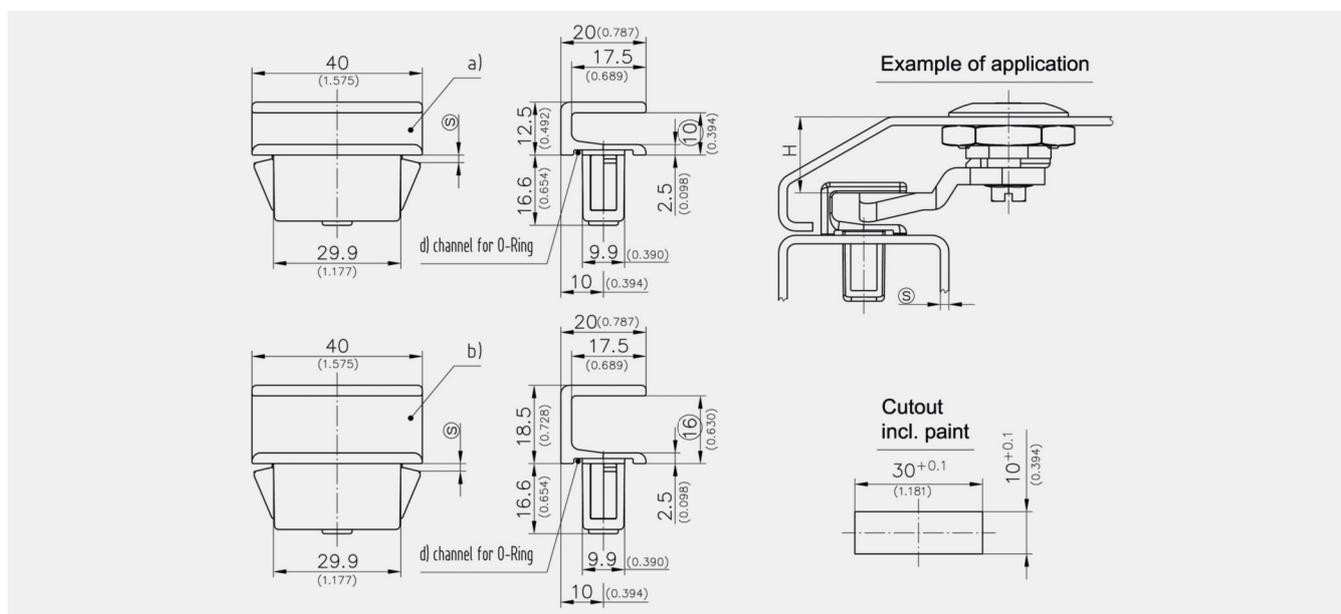


SNAP

R L

RoHS  
WEEE

IP  
65



## Cam Catch, 10 mm

|    | Part Number       | Material | Surface | clamping range (S) | Packaging unit |
|----|-------------------|----------|---------|--------------------|----------------|
| a) | 408-9106.33-00010 | zinc die | black   | 0,7–1,2            | 10             |
| a) | 408-9106.33-00015 | zinc die | black   | 1,2–1,7            | 10             |
| a) | 408-9106.33-00020 | zinc die | black   | 1,7–2,2            | 10             |
| a) | 408-9106.33-00025 | zinc die | black   | 2,2–2,7            | 10             |
| a) | 408-9106.33-00030 | zinc die | black   | 2,7–3,2            | 10             |

## Cam Catch, 16 mm

|    | Part Number       | Material | Surface | clamping range (S) | Packaging unit |
|----|-------------------|----------|---------|--------------------|----------------|
| b) | 408-9107.33-00010 | zinc die | black   | 0,7–1,2            | 10             |
| b) | 408-9107.33-00015 | zinc die | black   | 1,2–1,7            | 10             |
| b) | 408-9107.33-00020 | zinc die | black   | 1,7–2,2            | 10             |
| b) | 408-9107.33-00025 | zinc die | black   | 2,2–2,7            | 10             |
| b) | 408-9107.33-00030 | zinc die | black   | 2,7–3,2            | 10             |

|  | Function extension | Part Number       |
|--|--------------------|-------------------|
|  | Cutout-cover       | 292-0401.00-03010 |
|  | O-ring 20 x 2.2 mm | 839-3770.00-02022 |

DIN  
61373

IP  
65

15  
Nm

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WEEE



The Compression Latch can be used where a secure latching is necessary.

**Features**

- Compression 7 mm.
- Vibration-proof.
- Locking mechanism is a two-step process actuated by two 90° degree turns.
  - Step 1: 90° degree turn - Cam is rotated behind the frame.
  - Step 2: 90° degree turn - Cam is pulled 7 mm towards the frame.
- Variable H-dimension is adjustable from 12 mm/0.472 to 83.5 mm/3.287.
- IP65 according to DIN EN 60529.
- Inserts h) and i) (see drawing) on request.

**Material and surface**

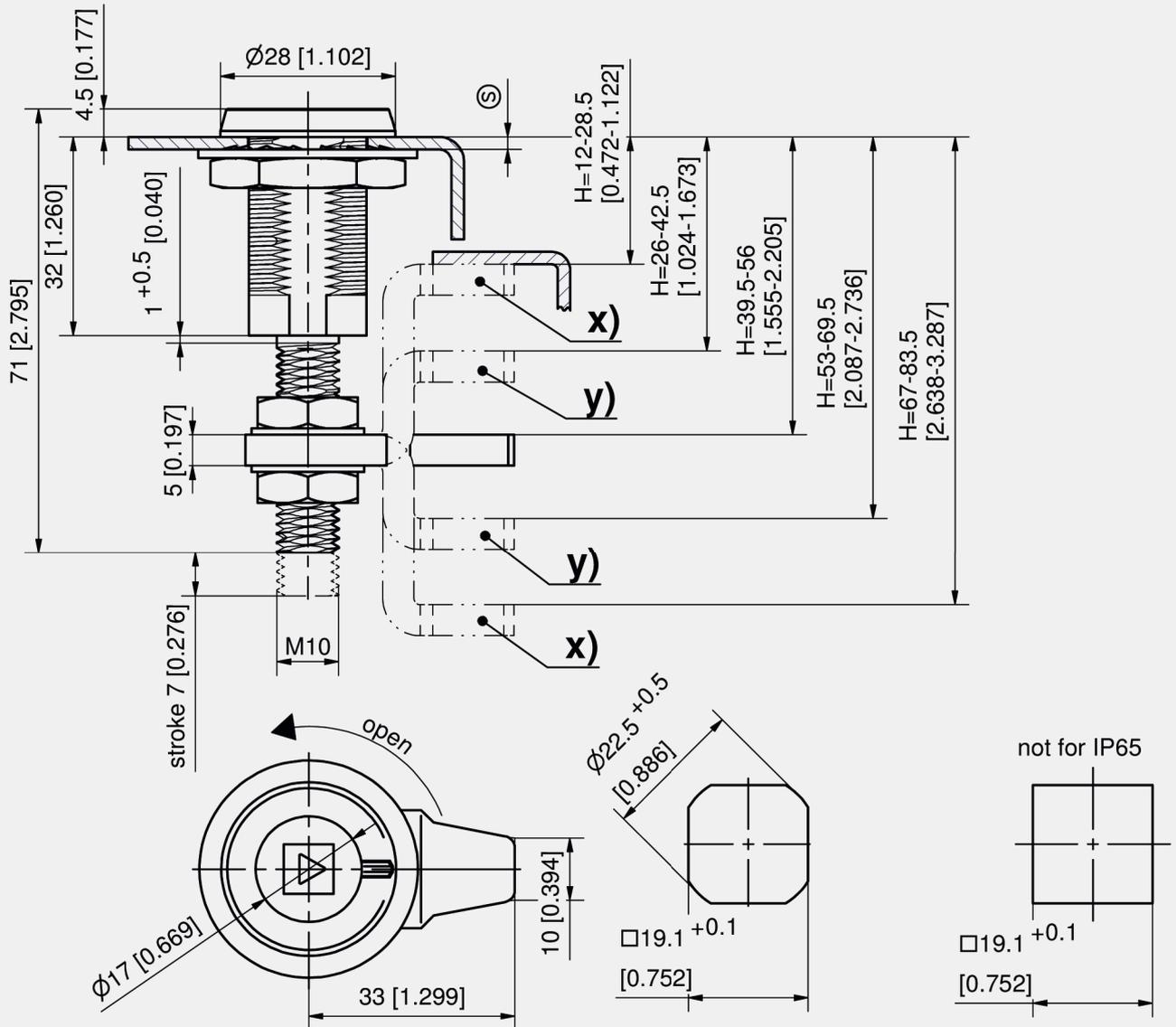
**Housing and insert:** zinc die, black

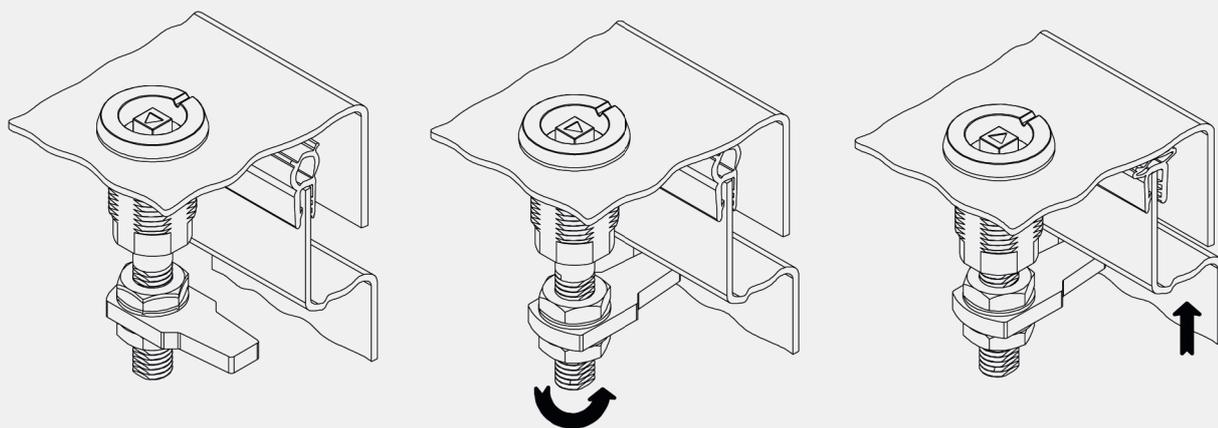
**Nut for attachment of the housing:** zinc die

**Cams, serrated washer, nuts and pin:** steel, zinc plated

**Note**

(S) = max. 18 mm

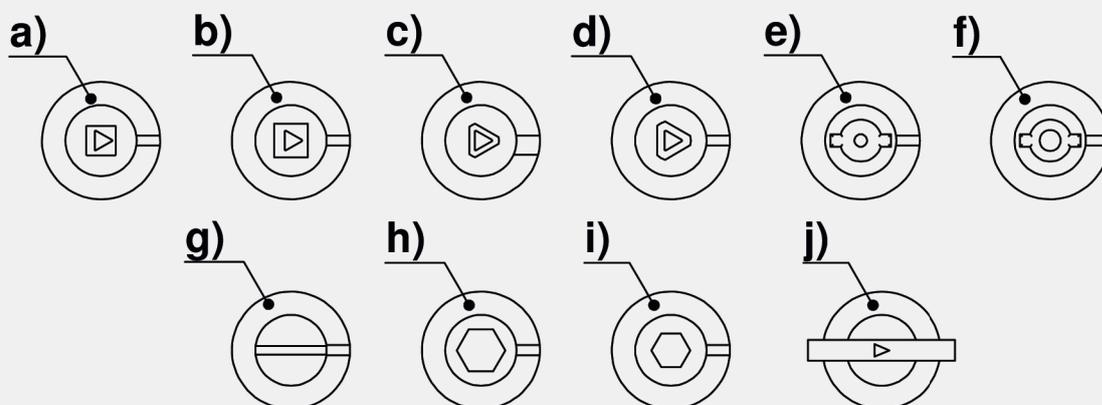




Open position

First 90° degree turn of the insert moves the cam behind the frame.

Second 90° degree turn pulls the cam 7mm against the frame compressing the seal. The door is latched and free of play.



### Compression Latch with insert

|    | Part Number       | Insert              | Door-thickness | Installation type | Version | Compression | variable H-dimension | Construction depth | Packaging unit |
|----|-------------------|---------------------|----------------|-------------------|---------|-------------|----------------------|--------------------|----------------|
| a) | 248-9752.00-00001 | Square 7 mm         | max. 18 mm     | screw-on          | LH      | 7           | 39,5–56              | 71                 | 25             |
| b) | 248-9752.00-00002 | Square 8 mm         | max. 18 mm     | screw-on          | LH      | 7           | 39,5–56              | 71                 | 25             |
| c) | 248-9752.00-00003 | Triangular 7 mm     | max. 18 mm     | screw-on          | LH      | 7           | 39,5–56              | 71                 | 25             |
| d) | 248-9752.00-00004 | Triangular 8 mm     | max. 18 mm     | screw-on          | LH      | 7           | 39,5–56              | 71                 | 25             |
| e) | 248-9752.00-00005 | Double bit 3 mm pin | max. 18 mm     | screw-on          | LH      | 7           | 39,5–56              | 71                 | 25             |
| f) | 248-9752.00-00006 | Double bit 5 mm pin | max. 18 mm     | screw-on          | LH      | 7           | 39,5–56              | 71                 | 25             |
| g) | 248-9752.00-00007 | Slotted 2 x 4 mm    | max. 18 mm     | screw-on          | LH      | 7           | 39,5–56              | 71                 | 25             |
| j) | 248-9752.00-00010 | Wing knob           | max. 18 mm     | screw-on          | LH      | 7           | 39,5–56              | 71                 | 25             |

### Cams

|    | Part Number       | Length L | H-dimension pos variable | H-dimension neg variable | Bending |
|----|-------------------|----------|--------------------------|--------------------------|---------|
| x) | 248-0602.15-00275 | L33      | 67–83,5                  | 12–28,5                  | 27,5    |
| y) | 248-0602.15-00135 | L33      | 53–69,5                  | 26–42,5                  | 13,5    |



Compression Latch with Flap,  
stainless steel on page 142.

**Features**

- Compression 6 mm.
- Vibration-proof according to DIN EN 61373.
- RH and LH version.
- The flap is standing upright (90°) in unlocked position.
- The open flap indicates locking position and protects against dust and water.
- The spring loaded flap first closes, when compression latch is closed securely.

**Material and surface**

**Housing, flap and insert:** zinc die, black

**Grounding nut:** zinc die, untreated

**Screw, nut and spring:** stainless steel

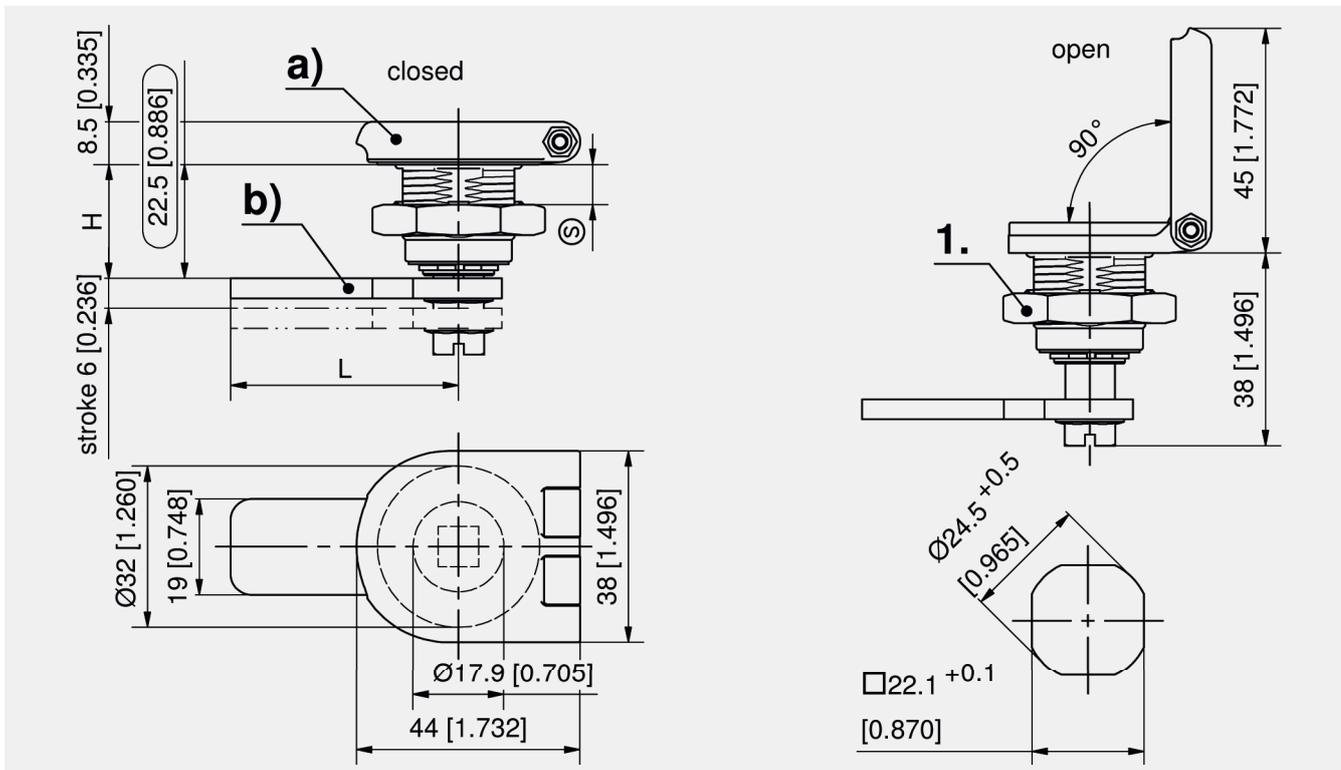
**O-Rings:** NBR

**Note**

The H-dimension can be varied by the cranking of the cams.

(S) = max. 8 mm

1. Single sided grounding nut.



## Compression Latch

|    | Part Number       | Insert              | Door-thickness | Grounding type | Installation type | Version | Compression | Construction depth |
|----|-------------------|---------------------|----------------|----------------|-------------------|---------|-------------|--------------------|
| a) | 248-9601.00-00001 | Double bit 3 mm pin | max. 8 mm      | Grounding nut  | screw-on          | LH      | 6           | 38                 |
| a) | 248-9601.00-00002 | Double bit 5 mm pin | max. 8 mm      | Grounding nut  | screw-on          | LH      | 6           | 38                 |
| a) | 248-9601.00-00003 | Square 8 mm         | max. 8 mm      | Grounding nut  | screw-on          | LH      | 6           | 38                 |
| a) | 248-9601.00-00004 | Triangular 8 mm     | max. 8 mm      | Grounding nut  | screw-on          | LH      | 6           | 38                 |
| a) | 248-9601.00-00005 | Conical square 9 mm | max. 8 mm      | Grounding nut  | screw-on          | LH      | 6           | 38                 |
| a) | 248-9651.00-00001 | Double bit 3 mm pin | max. 8 mm      | Grounding nut  | screw-on          | RH      | 6           | 38                 |
| a) | 248-9651.00-00002 | Double bit 5 mm pin | max. 8 mm      | Grounding nut  | screw-on          | RH      | 6           | 38                 |
| a) | 248-9651.00-00003 | Square 8 mm         | max. 8 mm      | Grounding nut  | screw-on          | RH      | 6           | 38                 |
| a) | 248-9651.00-00004 | Triangular 8 mm     | max. 8 mm      | Grounding nut  | screw-on          | RH      | 6           | 38                 |
| a) | 248-9651.00-00005 | Conical square 9 mm | max. 8 mm      | Grounding nut  | screw-on          | RH      | 6           | 38                 |

\* 7-105.01 Cams L35/45 without Ramp and Stop



Nicely shaped Quarter-turn with 12 mm (0.472) housing.

**Features**

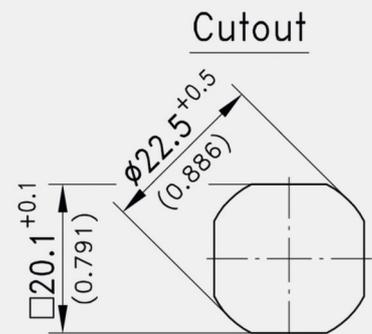
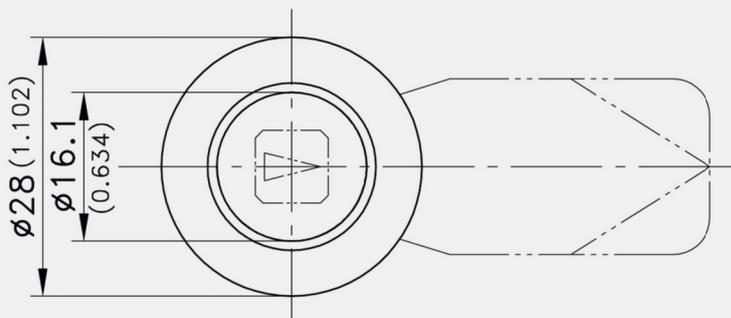
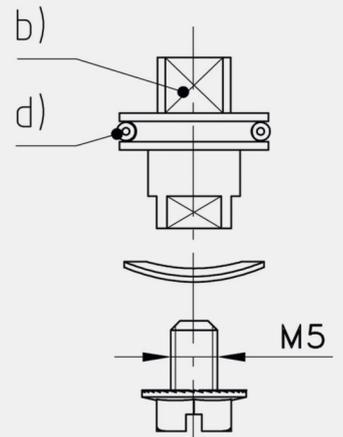
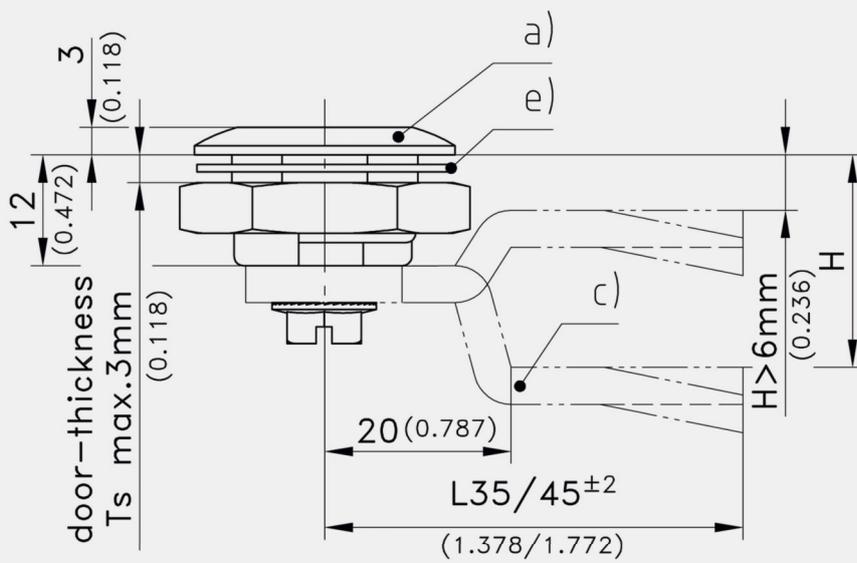
- RH / LH application.
- Please configure the Quarter-turn with insert and cam.
- On request parts can be assembled.
- The Quarter-turn can be screwed into the cutout with the pre-assembled cam.
- Grounding is possible with use of a grounding nut.
- IP65 according to DIN EN 60529 by using sealing kit 209-9002.

**Material and surface**

- Housing and insert:** zinc die, chrome plated or black
- Cams and nut:** steel, zinc plated
- Grounding nut:** zinc die, untreated

**Note**

**H-dimension  $\geq 6$  mm**



## Housing

|    | Part Number       | Housing length | Door-thickness | Material | Grounding type | Installation type | Version       |
|----|-------------------|----------------|----------------|----------|----------------|-------------------|---------------|
| a) | 100-9044.00-00000 | L12            | max. 3 mm      | zinc die |                | screw-on          | chrome plated |
| a) | 100-9045.00-00000 | L12            | max. 3 mm      | zinc die | Grounding nut  | screw-on          | chrome plated |
| a) | 100-9046.00-00000 | L12            | max. 3 mm      | zinc die |                | screw-on          | black         |
| a) | 100-9047.00-00000 | L12            | max. 3 mm      | zinc die | Grounding nut  | screw-on          | black         |

## Inserts for Quarter-turn L12

|    | Part Number       | Insert type             | Material | Surface       | incl. Spring washer and serrated screw |
|----|-------------------|-------------------------|----------|---------------|--|
| b) | 100-9138.00-00006 | Double bit 3 mm pin     | zinc die | chrome plated | Yes                                    |
| b) | 100-9138.00-00007 | Double bit 5 mm pin     | zinc die | chrome plated | Yes                                    |
| b) | 100-9138.00-00008 | Square 6 mm             | zinc die | chrome plated | Yes                                    |
| b) | 100-9138.00-00009 | Square 7 mm             | zinc die | chrome plated | Yes                                    |
| b) | 100-9138.00-00010 | Square 8 mm             | zinc die | chrome plated | Yes                                    |
| b) | 100-9138.00-00011 | Triangular 7 mm         | zinc die | chrome plated | Yes                                    |
| b) | 100-9138.00-00012 | Triangular 8 mm         | zinc die | chrome plated | Yes                                    |
| b) | 100-9138.00-00013 | Slotted 2 x 4 mm        | zinc die | chrome plated | Yes                                    |
| b) | 100-9140.00-00006 | Double bit 3 mm pin     | zinc die | black         | Yes                                    |
| b) | 100-9140.00-00007 | Double bit 5 mm pin     | zinc die | black         | Yes                                    |
| b) | 100-9140.00-00008 | Square 6 mm             | zinc die | black         | Yes                                    |
| b) | 100-9140.00-00009 | Square 7 mm             | zinc die | black         | Yes                                    |
| b) | 100-9140.00-00010 | Square 8 mm             | zinc die | black         | Yes                                    |
| b) | 100-9140.00-00011 | Triangular 7 mm         | zinc die | black         | Yes                                    |
| b) | 100-9140.00-00012 | Triangular 8 mm         | zinc die | black         | Yes                                    |
| b) | 100-9140.00-00013 | Socket hex.8 mm (5/16") | zinc die | black         | Yes                                    |

|  | Function extension | Part Number       |
|--|--------------------|-------------------|
|  | Sealing kit IP65   | 209-9002.00-00000 |

|  | Assembly options              | Part Number       |
|---|-------------------------------|-------------------|
|   | Assembling cam without o-ring | 200-0001.00-00000 |
|   | Assembling cam with o-ring    | 200-0002.00-00000 |



LED Module for Quarter-Turns  
on page 47.

Nicely shaped safety Quarter-turn with 18 mm housing.

### Features

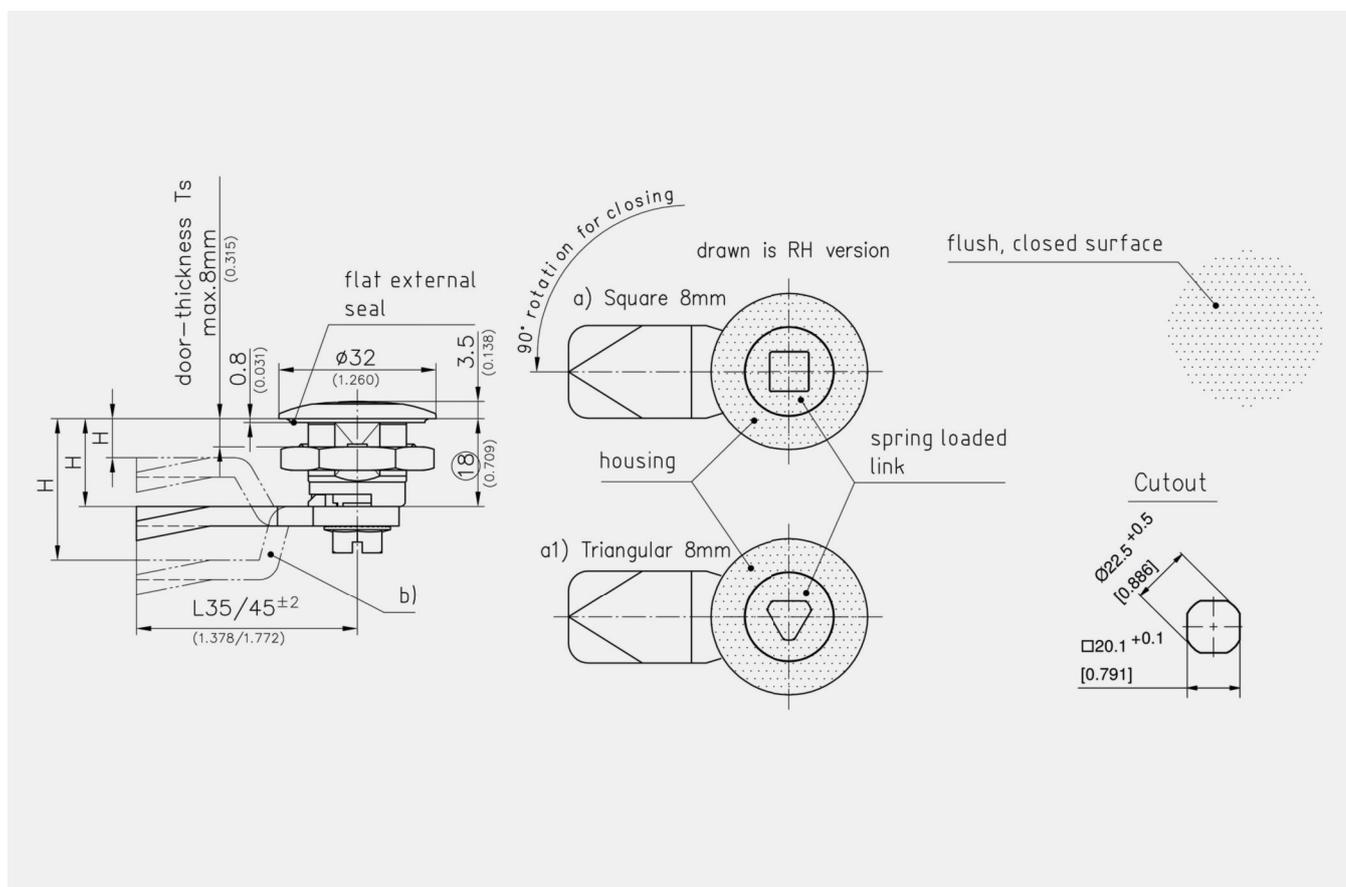
- RH / LH application.
- Vibration-proof also at high sealing pressure.
- IP65 according to DIN EN 60529.
- The Quarter-turn can be screwed into the cutout with the pre-assembled cam.
- On request parts can be assembled.
- Grounding by single sided grounding nut.

### Material and surface

- a)
- Housing, insert and spring loaded link:** zinc die, matt chrome plated
- O-Ring and flat external seal:** NBR Perbunan, black
- Grounding nut:** zinc die, untreated
- b) and b1)
- Cam:** steel, zinc plated

### Note

**Additional advantage:** completely closed housing surface.



## Safety Quarter-turn, pre-assembled, without cam

|     | Part Number       | Insert          | Housing length | Material | Grounding type | Installation type |
|-----|-------------------|-----------------|----------------|----------|----------------|-------------------|
| a)  | 255-9813.00-00000 | Square 8 mm     | L18            | zinc die | Grounding nut  | screw-on          |
| a1) | 255-9814.00-00000 | Triangular 8 mm | L18            | zinc die | Grounding nut  | screw-on          |

|  | Assembly options              | Part Number       |
|--|-------------------------------|-------------------|
|  | Assembling cam without o-ring | 200-0001.00-00000 |



Double insulated polyamide quarter-turn with moulded-in TPE seal (under the head and inside the housing) that is permanently fixed in the PA-housing, thus ensuring that it cannot be lost.

**Features**

- IP65/67 according to DIN EN 60529 and IP69K according to DIN 40050.
- Please configure the Quarter-turn with insert and cam.
- Insert and cam can be clipped together without tools before the installation in the housing.
- A pre-assembled Quarter-turn can be installed through the cutout.
- On request parts can be assembled.
- RH / LH application.

**Material and surface**

**Housing, insert, cam and nut:** PA6, black

**Seal:** TPE, red

**Note**

**Please consider the packaging units:**

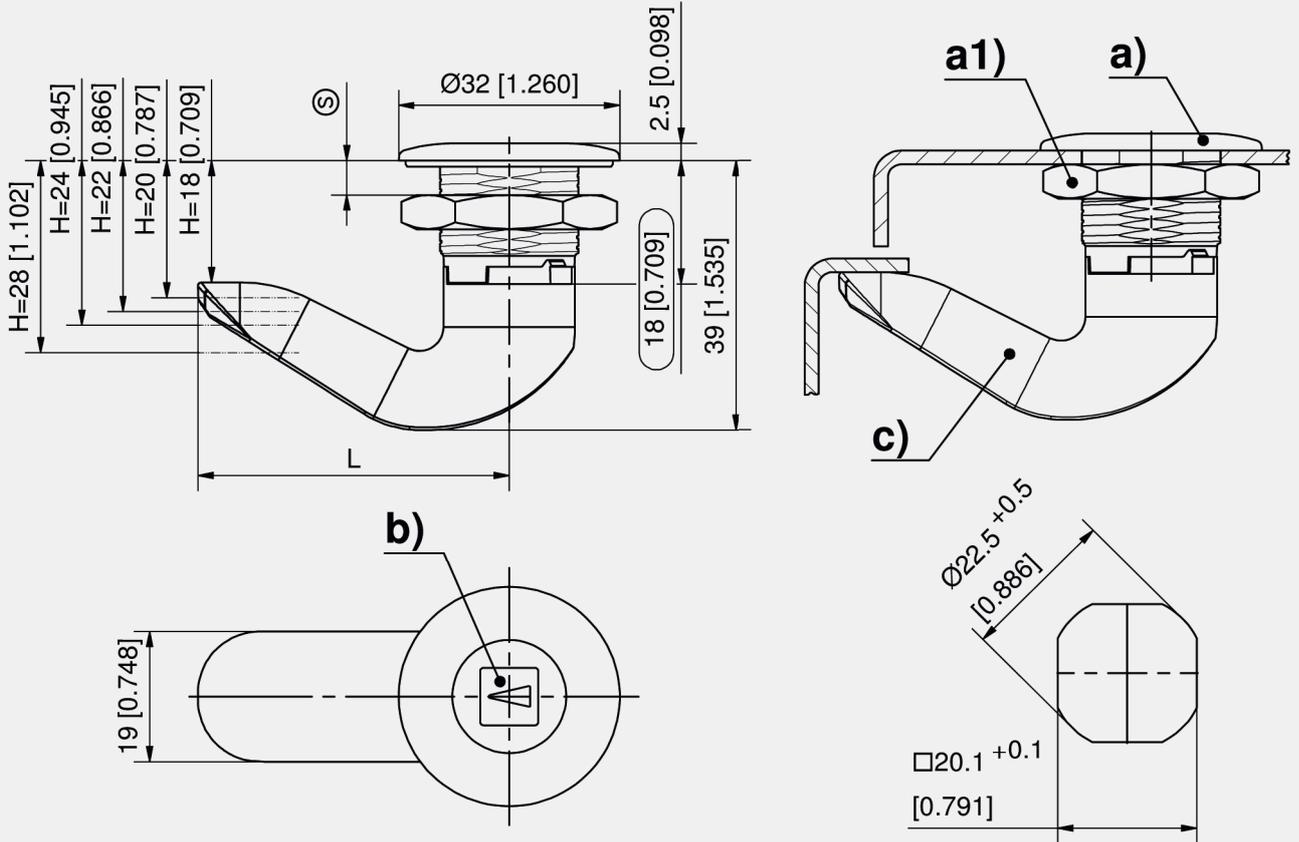
Housings and Nuts:

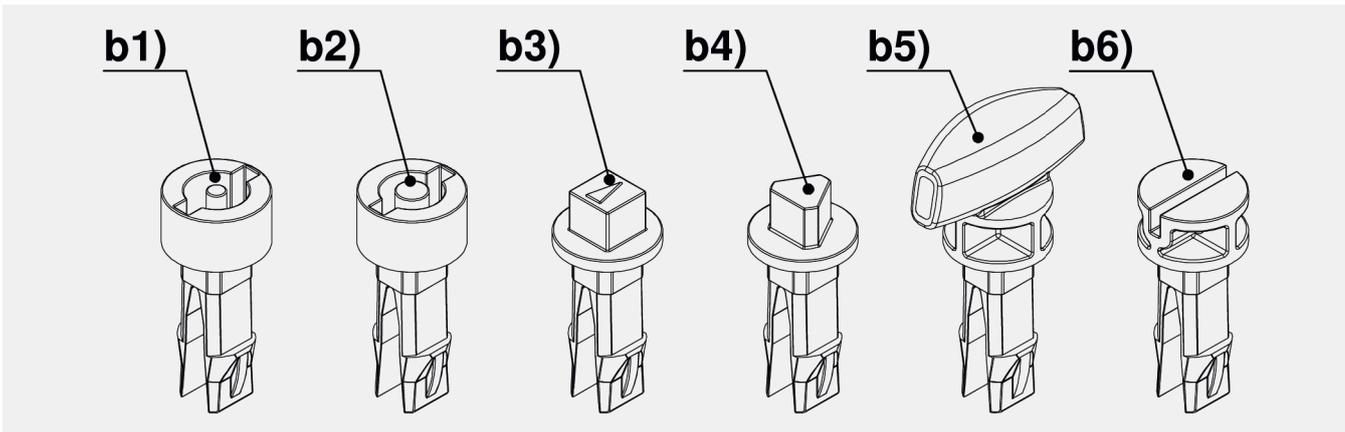
= each 1000 pcs.

Inserts and cams:

= each 250 pcs.

(S) = max. 8 mm





### Quarter-turn housing 2K

|    | Part Number       | Housing length | Material  | Captive seal | Packaging unit |
|----|-------------------|----------------|-----------|--------------|----------------|
| a) | 200-0211.07-07701 | L18            | PA, black | Yes          | 1000           |

### Inserts for Quarter-turn 2K

|     | Part Number       | Insert type         | Material  | Packaging unit |
|-----|-------------------|---------------------|-----------|----------------|
| b2) | 100-0388.50-07701 | Double bit 5 mm pin | PA, black | 250            |
| b3) | 100-0388.50-07702 | Square 8 mm         | PA, black | 250            |
| b4) | 100-0388.50-07703 | Triangular 8 mm     | PA, black | 250            |
| b6) | 100-0388.50-07704 | Slotted 2 x 4 mm    | PA, black | 250            |
| b1) | 100-0388.50-07705 | Double bit 3 mm pin | PA, black | 250            |
| b5) | 100-0388.50-07707 | Wing                | PA, black | 250            |

### Cams for Quarter-turn 2K

|    | Part Number       | H-dimension | Length L | Stop | Packaging unit |
|----|-------------------|-------------|----------|------|----------------|
| c) | 200-0769.50-07718 | 18          | L45      | Yes  | 250            |
| c) | 200-0769.50-07720 | 20          | L45      | Yes  | 250            |
| c) | 200-0769.50-07722 | 22          | L45      | Yes  | 250            |
| c) | 200-0769.50-07724 | 24          | L45      | Yes  | 250            |
| c) | 200-0769.50-07728 | 28          | L45      | Yes  | 250            |

|  |                   |     |  |  |  |
|--|-------------------|-----|--|--|--|
|  | 203-0901.07-00000 | Nut |  |  |  |
|--|-------------------|-----|--|--|--|

SNAP

A

R L

UL

RoHS  
WEEE

IP  
65



PA Quarter-turn for snap-in installation into cutout A

**Features**

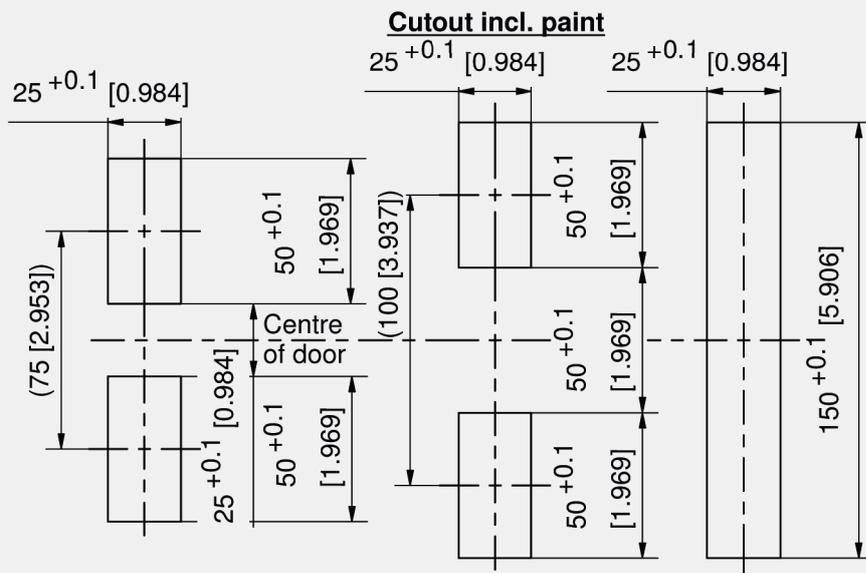
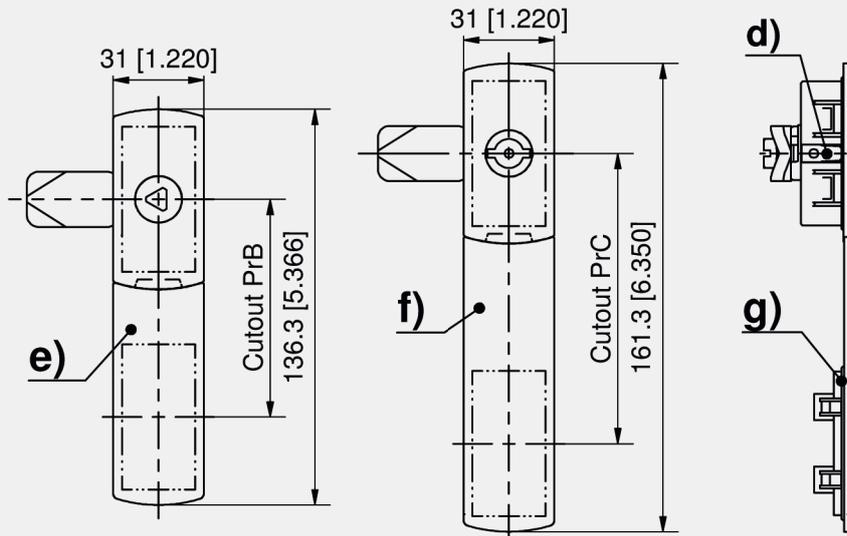
- RH / LH application by rotatable bottom part.
- By using additional extensions this Quarter-turn can also be applied for cutouts B and C.
- The Quarter-turn can be snapped-in as a completely pre-assembled unit.
- Also a 3-point cam can be pre-assembled.
- IP65 according to DIN EN 60529 by using the sealing kit (with snap-in extensions IP54).

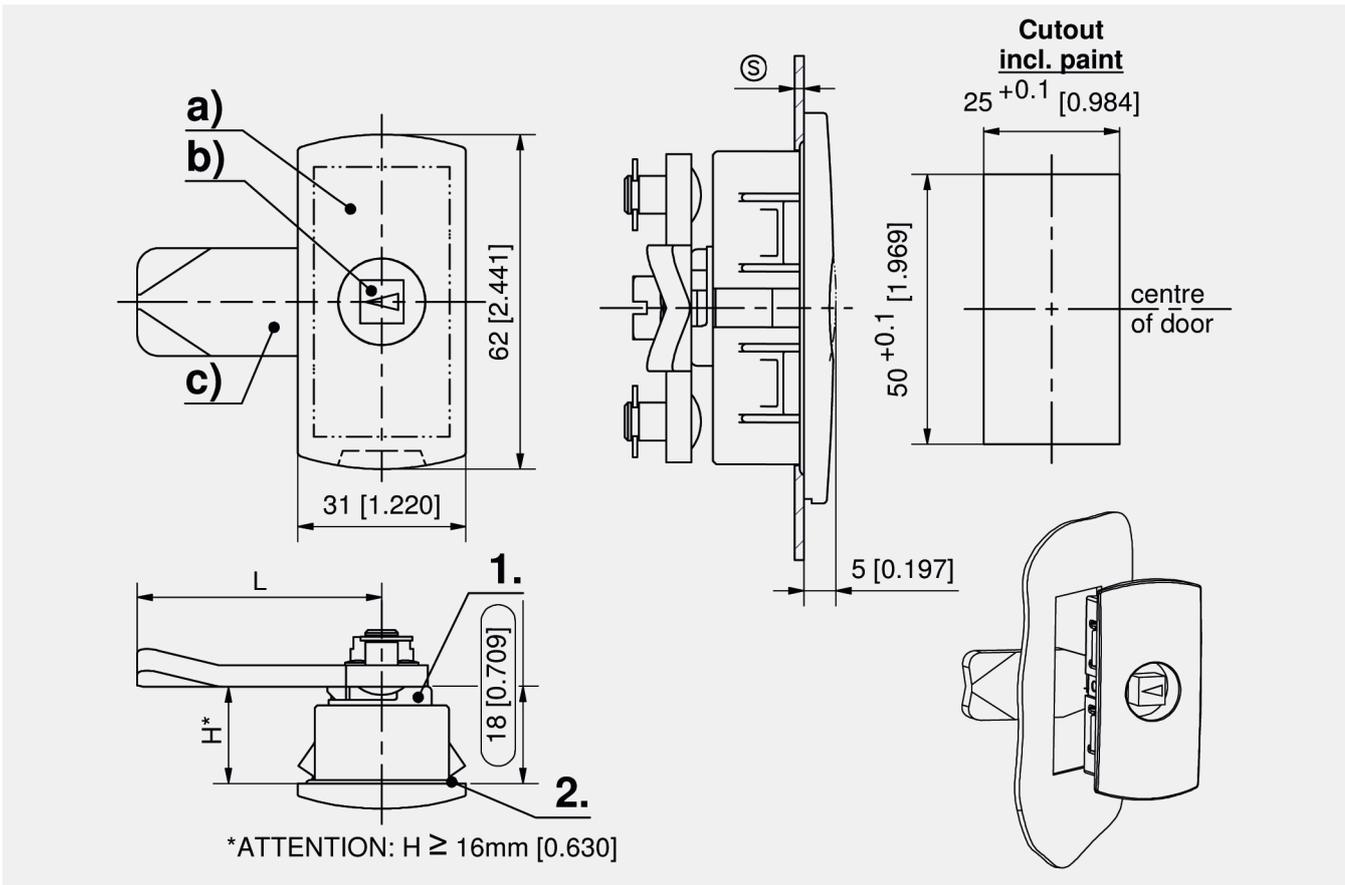
**Material and surface**

- Housing:** PA, black
- Bottom:** zinc die, zinc plated
- Grounding clip:** stainless steel
- O-ring:** NBR, black

**Note**

- H-dimension of the cam**  $\geq 16$  mm (5/8").
- 1. = Rotatable bottom
- 2. = Sealing kit IP65
- d) = Grounding clip
- g) = Sealing kit for escutcheon





### Housing with rotatable bottom and O-ring

|    | Part Number       | Housing length | Grounding type | Installation type | Clamping range | Packaging unit |
|----|-------------------|----------------|----------------|-------------------|----------------|----------------|
| a) | 408-9305.00-00010 | L18            | Grounding clip | tool-less         | 0.8 – 1.3      | 50             |
| a) | 408-9305.00-00015 | L18            | Grounding clip | tool-less         | 1.3 – 1.8      | 50             |
| a) | 408-9305.00-00020 | L18            | Grounding clip | tool-less         | 1.8 – 2.3      | 50             |

|   |                   |   |
|---|-------------------|---|
| * | 208-0523.03-00000 | Extension, short                        |
|   | 208-0522.03-00000 | Extension, long                         |
|   | 3-136SL           | Cutout-Cover PrA, PrB and PrC SNAP-LINE |
|   | 208-1804.00-00000 | Sealing kit for escutcheon              |

|   | Function extension | Part Number       |
|---|--------------------|-------------------|
| + | Grounding clip     | 200-1104.93-00000 |
|   | Sealing kit IP65   | 209-9002.00-00000 |

|    | Assembly options           | Part Number       |
|----|----------------------------|-------------------|
| ⚙️ | Assembling cam with o-ring | 200-0002.00-00000 |
|    | Assembling cam, LH door    | 200-0020.00-00000 |
|    | Assembling cam, RH door    | 200-0021.00-00000 |



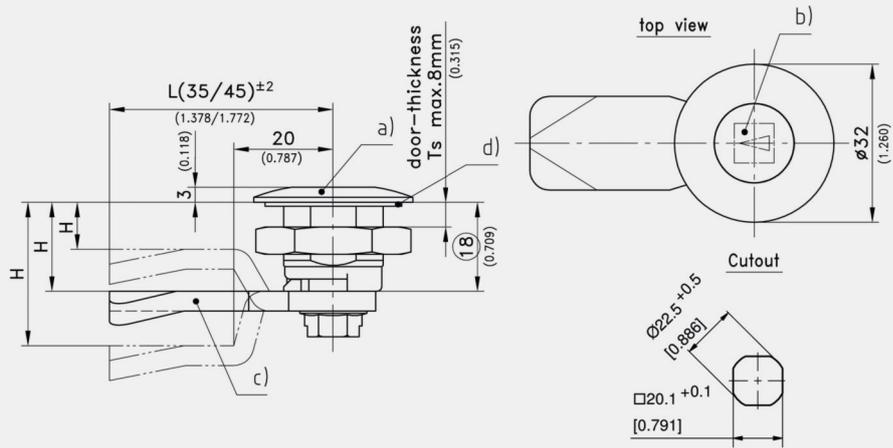
Specially low profile Quarter-turn.

**Features**

- RH / LH application.
- Please configure the Quarter-turn with insert and cam.
- On request parts can be assembled.
- A pre-assembled Quarter-turn can be installed through the cutout.
- Grounding by grounding nut or grounding clip.
- IP65 according to DIN EN 60529 by sealing kit 209-9002.
- IP67 according to DIN EN 60529 by sealing kit 209-9001.

**Material and surface**

- Housing:** zinc die, chrome plated or black
- Nut:** steel, zinc plated
- Grounding nut:** zinc die, untreated
- Grounding clip:** stainless steel



Quarter-turn housing Ø32

|    | Part Number       | Housing length | Door-thickness | Material | Grounding type | Installation type | Version       |
|----|-------------------|----------------|----------------|----------|----------------|-------------------|---------------|
| a) | 100-9053.00-00000 | L18            | max. 8 mm      | zinc die |                | screw-on          | chrome plated |
| a) | 100-9054.00-00000 | L18            | max. 8 mm      | zinc die | Grounding nut  | screw-on          | chrome plated |
| a) | 100-9055.00-00000 | L18            | max. 8 mm      | zinc die | Grounding clip | screw-on          | chrome plated |
| a) | 100-9056.00-00000 | L18            | max. 8 mm      | zinc die |                | screw-on          | black         |
| a) | 100-9057.00-00000 | L18            | max. 8 mm      | zinc die | Grounding nut  | screw-on          | black         |
| a) | 100-9058.00-00000 | L18            | max. 8 mm      | zinc die | Grounding clip | screw-on          | black         |

| + | Function extension | Part Number       |
|---|--------------------|-------------------|
|   | Sealing kit IP65   | 209-9002.00-00000 |
|   | Sealing kit IP67   | 209-9001.00-00000 |

| ⚙ | Assembly options              | Part Number       |
|---|-------------------------------|-------------------|
|   | Assembling cam without o-ring | 200-0001.00-00000 |
|   | Assembling cam with o-ring    | 200-0002.00-00000 |

The roller cam reduces the friction and eases the closing.

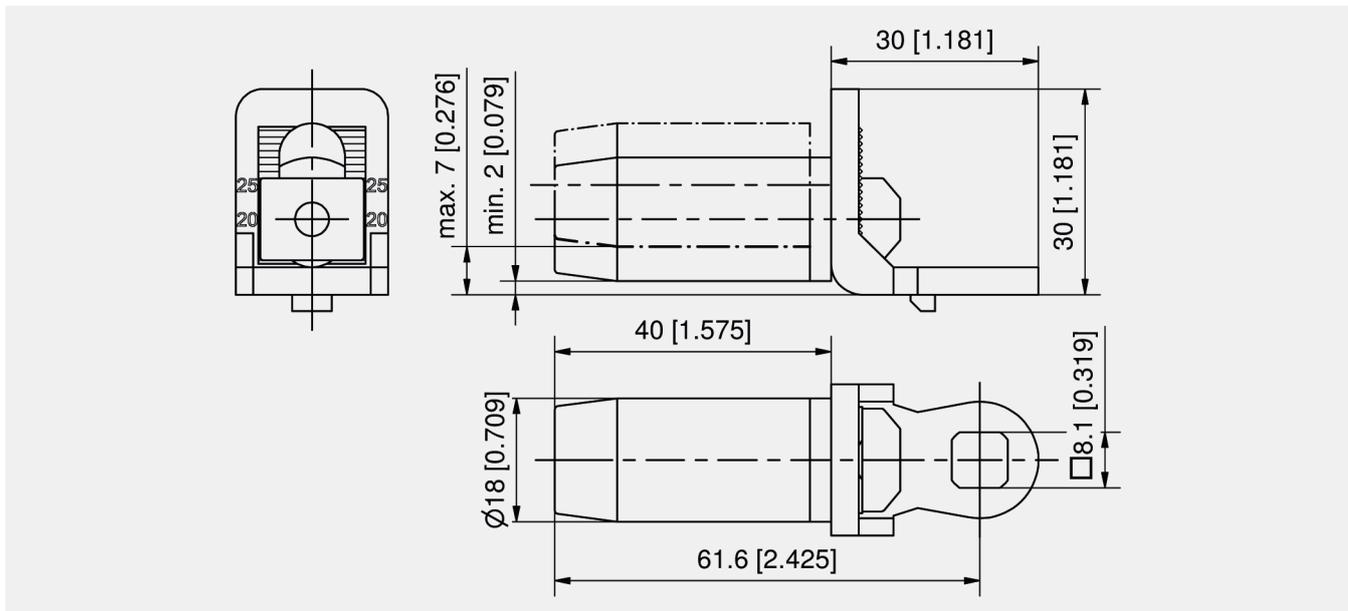
**Features**

- No scratching or spalling of the paint at the inner part of the bending.
- Adjustable in height from H20 to H25.
- Suitable for all inserts, swing-handles and multipoint locking systems with square 8 mm.
- H- dimension of the cam easy to adjust because of impressed height marks.

**Material and surface**

- Cam:** zinc die, zinc plated
- Roller:** PA, black
- Tenon blocks:** zinc die, untreated
- Distance bushing:** zinc die, untreated
- Cylinder screw:** steel, zinc plated

RoHS  
WEEE



**Roller cam**

| Part Number       | H-dimension variable | Length | Diameter Ø | Packaging unit |
|-------------------|----------------------|--------|------------|----------------|
| 100-9755.00-00000 | 20-25                | 61.6   | 18         | 10             |



RoHS  
WEEE



The Quarter-Turn has absolutely no protrusion on the outside.

**Features**

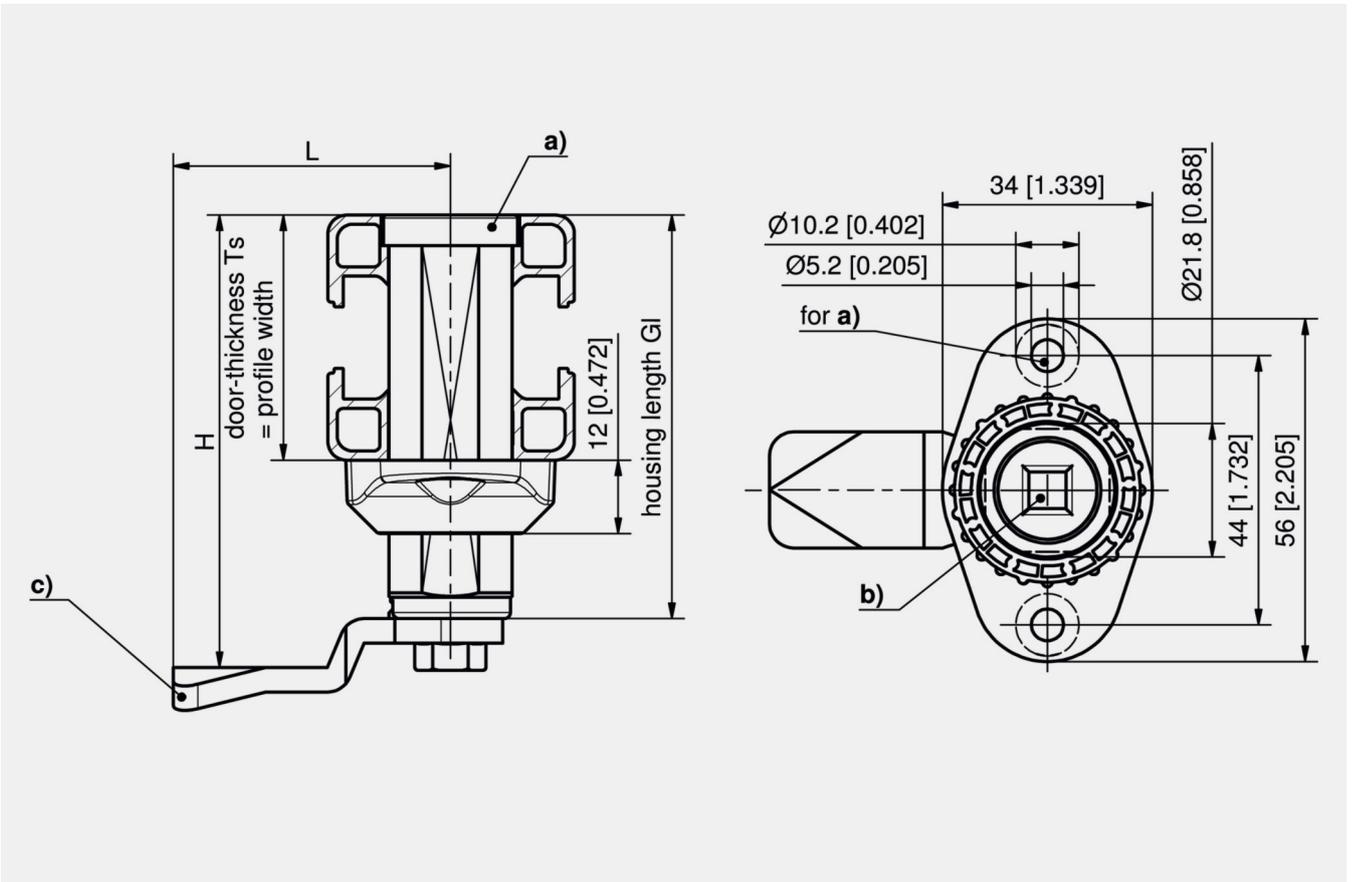
- RH / LH application.
- Please configure the Quarter-turn with insert, adapter and cam.
- With the PA nut M22 x 1.5 mm, the housing is put exactly into position and secured with the anti-rotation device. Precise detent for optimized alignment.
- In conjunction with the stop plate, stop less constructions with aluminum profiles and/or with flat components can be latched perfectly.

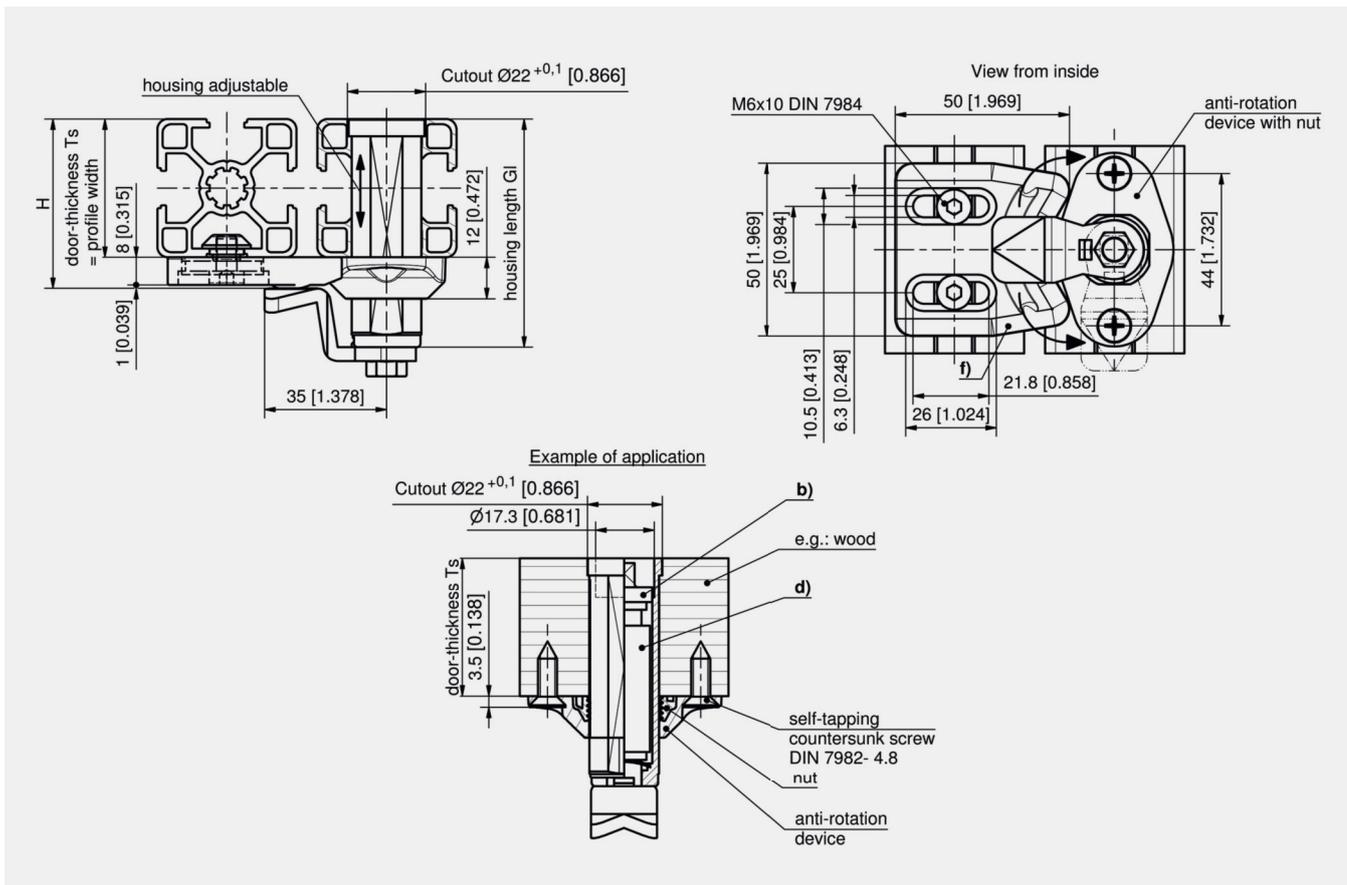
**Material and surface**

- Housing:** zinc die, chrome plated or black
- Nut:** PA
- Adapter:** zinc die, untreated
- Anti-rotation device:** zinc die, zinc plated
- Stop plate:** zinc die, black

**Note**

- d) = Adapter set
- f) = Stop plate





### Quarter-turn housing, zinc die, chrome plated

|    | Part Number       | Housing length | Door-thickness | Installation type | suitable adapter set |
|----|-------------------|----------------|----------------|-------------------|----------------------|
| a) | 200-9088.00-00000 | L22            | max. 7 mm      | screw-on          |                      |
| a) | 200-9090.00-00000 | L36            | max. 21 mm     | screw-on          | L20                  |
| a) | 200-9092.00-00000 | L42            | max. 27 mm     | screw-on          | L26                  |
| a) | 200-9094.00-00000 | L46            | max. 31 mm     | screw-on          | L30                  |
| a) | 200-9096.00-00000 | L56            | max. 41 mm     | screw-on          | L40                  |
| a) | 200-9098.00-00000 | L66            | max. 51 mm     | screw-on          | L50                  |

### Quarter-turn housing, zinc die, black

|    | Part Number       | Housing length | Door-thickness | Installation type |
|----|-------------------|----------------|----------------|-------------------|
| a) | 200-9089.00-00000 | L22            | max. 7 mm      | screw-on          |

|   |                   |                      |
|---|-------------------|----------------------|
| * | 265-3001.33-00000 | Stop plate           |
|   | 200-4618.35-00000 | Anti-rotation Device |
|   | 200-9031.00-00000 | Adapter set L20      |
|   | 200-9032.00-00000 | Adapter set L26      |
|   | 200-9033.00-00000 | Adapter set L30      |
|   | 200-9034.00-00000 | Adapter set L40      |
|   | 200-9035.00-00000 | Adapter set L50      |

| Assembly options                   | Part Number       |
|------------------------------------|-------------------|
| Assembling adapter, without o-ring | 200-0003.00-00000 |



Swinghandle base  
on page 71.

Low profile Cylinder Quarter-turn with different housing lengths.

**Features**

- RH / LH application.
- Please configure the Quarter-turn with insert and cam.
- On request parts can be assembled with cam.
- A pre-assembled Quarter-turn can be installed in the cutout.
- 2 Keys included.
- With stainless cylinder cover and dust-shutter.
- Maximum load for the key 4 Nm.

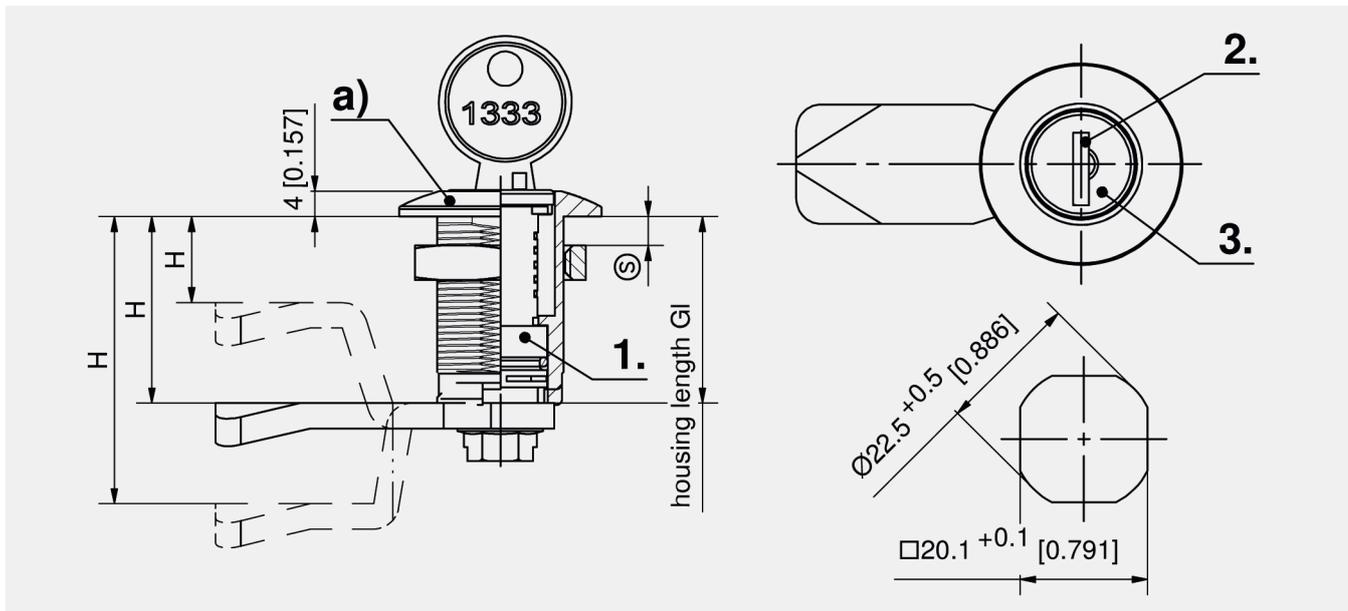
**Material and surface**

- Housing:** zinc die, chrome plated or black
- Nut and Serrated screw:** steel, zinc plated
- Adapter:** zinc die, untreated

**Note**

IP65 according to DIN EN 60529 only with dust cap.

- 1. = Adapter
- 2. = Dust-shutter
- 3. = Cylinder cover



Quarter-turn with cylinder

|    | Part Number       | Closing                | Housing length | Door-thickness | Material                |
|----|-------------------|------------------------|----------------|----------------|-------------------------|
| a) | 100-9081.00-10030 | keyed alike DIRAK 1333 | L30            | max. 20 mm     | zinc die, chrome plated |
| a) | 100-9081.00-10050 | keyed alike DIRAK 1333 | L50            | max. 40 mm     | zinc die, chrome plated |
| a) | 100-9082.00-10030 | keyed different        | L30            | max. 20 mm     | zinc die, chrome plated |
| a) | 100-9082.00-10050 | keyed different        | L50            | max. 40 mm     | zinc die, chrome plated |
| a) | 100-9083.00-10030 | keyed alike DS200      | L30            | max. 20 mm     | zinc die, chrome plated |
| a) | 100-9083.00-10050 | keyed alike DS200      | L50            | max. 40 mm     | zinc die, chrome plated |
| a) | 100-9081.00-20030 | keyed alike DIRAK 1333 | L30            | max. 20 mm     | zinc die, black         |
| a) | 100-9081.00-20050 | keyed alike DIRAK 1333 | L50            | max. 40 mm     | zinc die, black         |
| a) | 100-9082.00-20030 | keyed different        | L30            | max. 20 mm     | zinc die, black         |
| a) | 100-9082.00-20050 | keyed different        | L50            | max. 40 mm     | zinc die, black         |
| a) | 100-9083.00-20030 | keyed alike DS200      | L30            | max. 20 mm     | zinc die, black         |
| a) | 100-9083.00-20050 | keyed alike DS200      | L50            | max. 40 mm     | zinc die, black         |

| + | Function extension                  | Part Number |
|---|-------------------------------------|-------------|
|   | Dust Cap and Sealing Plug Pr20.1    | 1-270       |
|   | Finger Pull for Quarter-Turn Pr20.1 | 1-270.01    |

| ⚙ | Assembly options              | Part Number       |
|---|-------------------------------|-------------------|
|   | Assembling cam without o-ring | 200-0001.00-00000 |

**DIN 61373**



**120°**

**RoHS WEEE**



**Features**

- For surface mounted doors.
- Hinge concealed.
- Door bending 23 mm.
- RH and LH Version.
- 120° Opening angle.
- Flush latch through insert.
- When using 4 latches, the door can be lifted off completely.

**Material and surface**

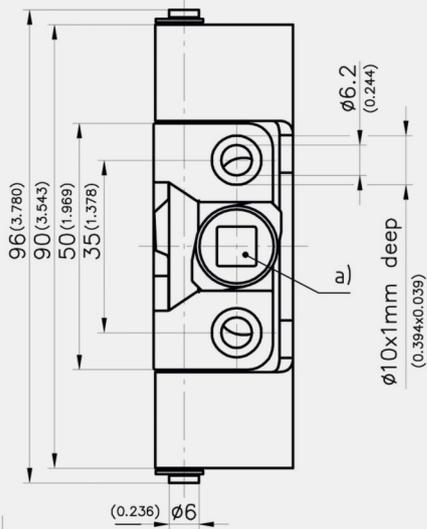
- Door- and latch-part:** zinc die, zinc plated
- Spring washer:** stainless steel
- Nut:** steel, zinc plated
- Locking washer:** steel, chrome plated
- Blind plug:** PA6, RAL 7035

**Note**

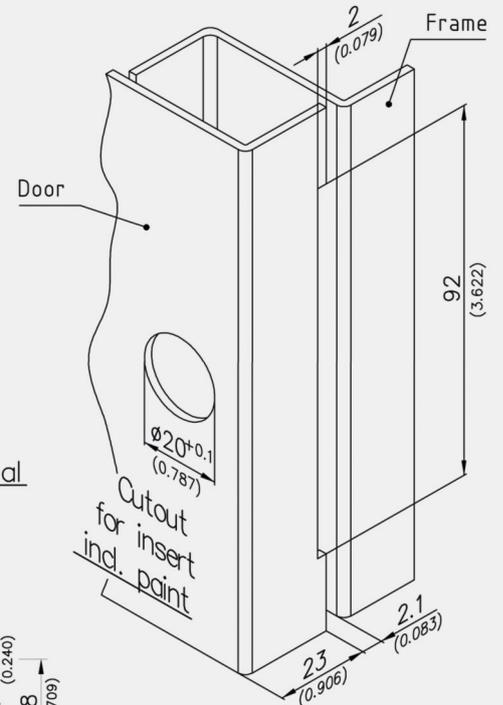
- Please order separately:
- c) Locking washer (usage see drawing)
  - d) Nut M6
  - e) Weld stud M6 x 8
  - f) Blind plug

**LH version**

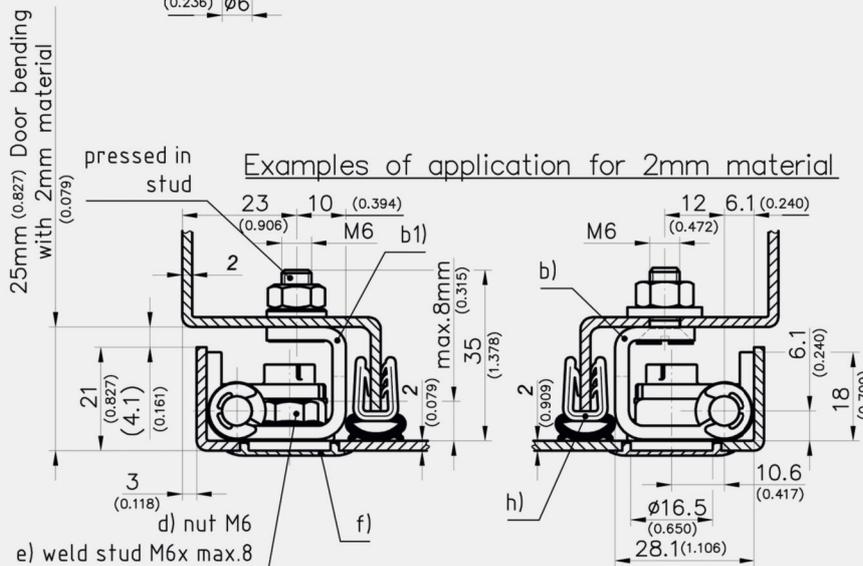
**RH version**

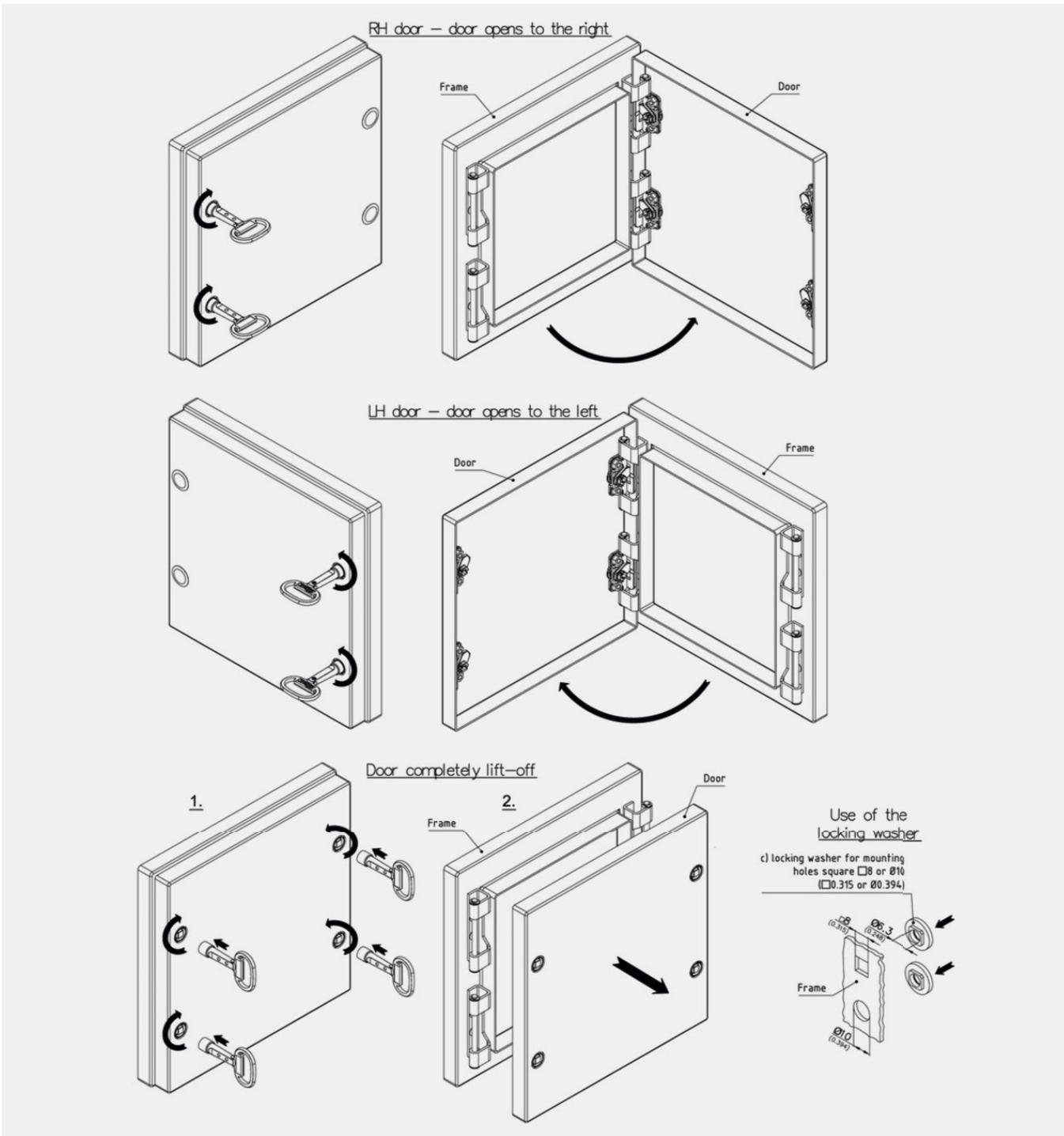


Reduction of the gap from 4.1 to 2.1 by notch 2mm/0.079inch material



**Examples of application for 2mm material**





## Flush latch

|    | Part Number       | Insert                 | Version | Installation type frame-part | Installation type door-part |
|----|-------------------|------------------------|---------|------------------------------|-----------------------------|
| a) | 243-9218.00-00000 | Square 8 mm            | LH      | serrated nut                 | screw-on                    |
| a) | 243-9219.00-00000 | Square 8 mm            | LH      | threaded pin                 | screw-on                    |
| a) | 243-9220.00-00000 | Double bit 3 mm pin    | LH      | serrated nut                 | screw-on                    |
| a) | 243-9221.00-00000 | Double bit 3 mm pin    | LH      | threaded pin                 | screw-on                    |
| a) | 243-9222.00-00000 | Square 8 mm            | RH      | serrated nut                 | screw-on                    |
| a) | 243-9223.00-00000 | Square 8 mm            | RH      | threaded pin                 | screw-on                    |
| a) | 243-9224.00-00000 | Double bit 3 mm pin    | RH      | serrated nut                 | screw-on                    |
| a) | 243-9225.00-00000 | Double bit 3 mm pin    | RH      | threaded pin                 | screw-on                    |
| a) | 243-9226.00-00000 | Square 8 mm with arrow | LH      | serrated nut                 | screw-on                    |
| a) | 243-9227.00-00000 | Square 8 mm with arrow | RH      | serrated nut                 | screw-on                    |
| a) | 243-9228.00-00000 | Square 8 mm with arrow | LH      | threaded pin                 | screw-on                    |
| a) | 243-9229.00-00000 | Square 8 mm with arrow | RH      | threaded pin                 | screw-on                    |

|   |                   |                     |
|---|-------------------|---------------------|
| ✱ | 243-0501.00-00000 | Fastening washer    |
|   | 800-1105.00-00000 | Weld stud M6 x 8    |
|   | 292-0604.00-07035 | Blind plug RAL 7035 |
|   | 860-B193.00-00006 | Serrated nut M6     |



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WEEE



**Features**

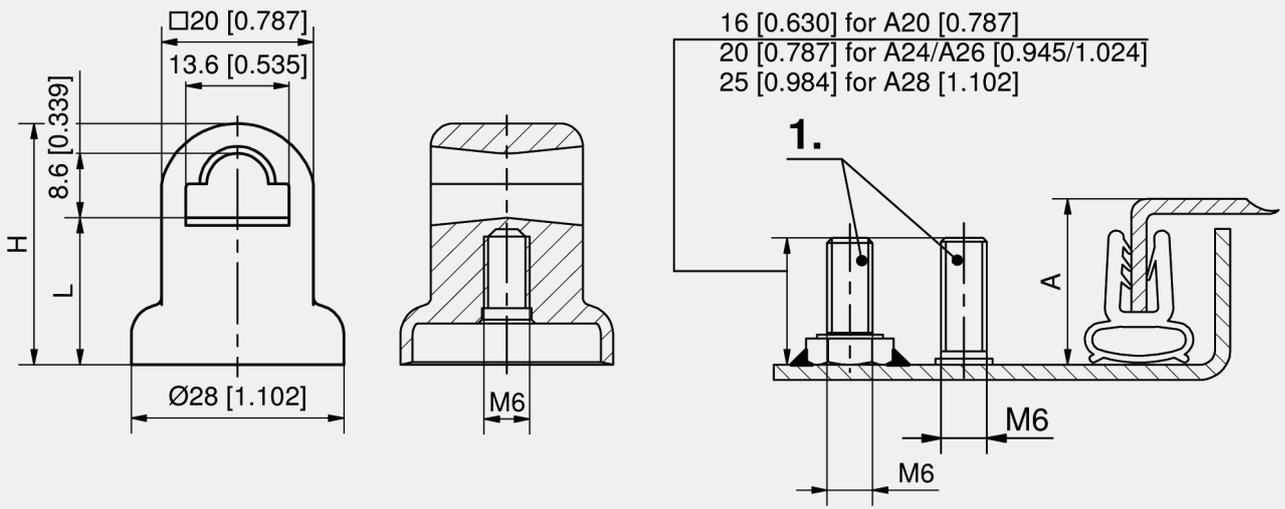
- With molded thread.
- Screwed onto a weld stud or weld-on screw.
- The round shape of the hole allows free swivelling even with very short rods.

**Material and surface**

Rod guide: PA, black

**Note**

1. = Length of the weld studs or screws M6:  
 16 mm for A20  
 20 mm for A24/A26  
 25 mm for A28



**Rod guide**

| Part Number       | Version | Fastening  | Material | Bending |
|-------------------|---------|------------|----------|---------|
| 200-3623.51-00000 | RS      | screwed on | PA       | A20     |
| 200-3624.51-00000 | RS      | screwed on | PA       | A24     |
| 200-3625.51-00000 | RS      | screwed on | PA       | A26     |
| 200-3626.51-00000 | RS      | screwed on | PA       | A28     |

Rod guides for 8 mm round rods. Version a) adjustable in height to compensate production tolerances or if sealing has set.

**Features**

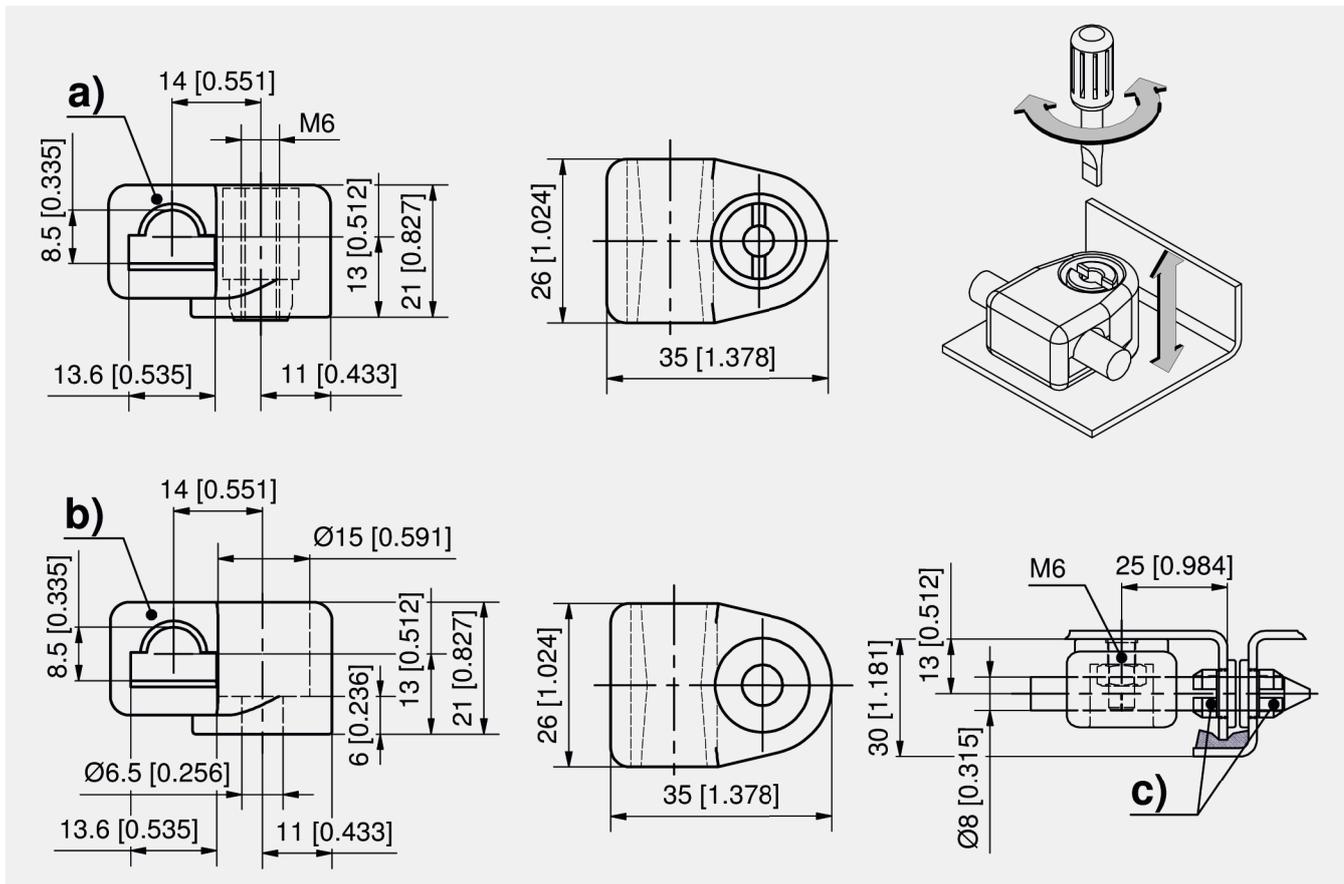
- The rod guide can be adjusted in height by a slotted insert (max. 12 x 2 mm).
- With this rod guide even completely pre-assembled rod latch systems can be installed, because the rod guide can be screwed onto the thread of the weld studs M6, by turning the threaded sleeve.
- The round shape of the hole allows free swivelling even with very short rods.
- Stainless steel version see product system 7-912.

**Material and surface**

**Rod guide:** PA, black  
**Adjusting Sleeve:** steel, zinc plated  
**Snap ring:** stainless steel

**Note**

Adjustment depending on the length of the weld stud:  
 M6 x 14 +5/-1 mm  
 M6 x 16 +5/-3 mm  
 M6 x 18 +5/-5 mm  
 M6 x 20 +5/-7 mm



**Rod guide**

|    | Part Number       | Version | Fastening  | Material | height adjustable | Adjustment range |
|----|-------------------|---------|------------|----------|-------------------|------------------|
| a) | 200-9615.00-00000 | RS      | screwed on | PA       | Yes               | max. + 5 mm      |
| b) | 200-3606.03-00000 | RS      | screwed on | PA       |                   |                  |
| *  | 203-0605.03-00000 |         |            | Bushings |                   |                  |



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WEEE



For designing multipoint locking systems.

**Features**

- RH / LH application.
- Flexible use on Quarter-turns with 18 mm housings or swinghandles.
- As the examples show, the controlling Quarter-turn can be installed in different positions.
- The driving rod actuates all cams simultaneously.
- (1.) Assembly distance washer on weld-stud M6 x 32.

**Material and surface**

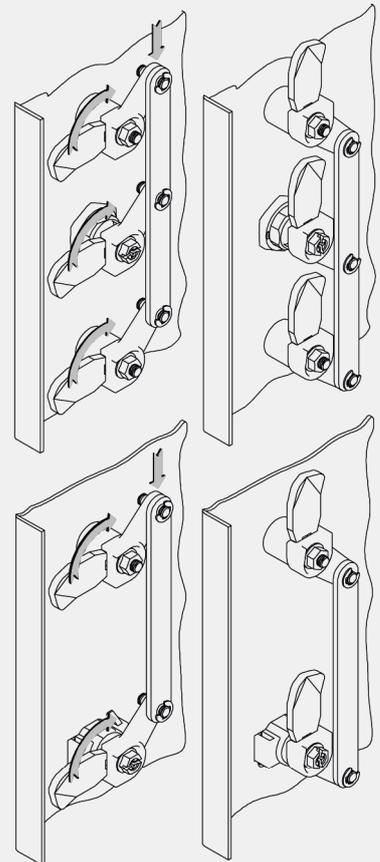
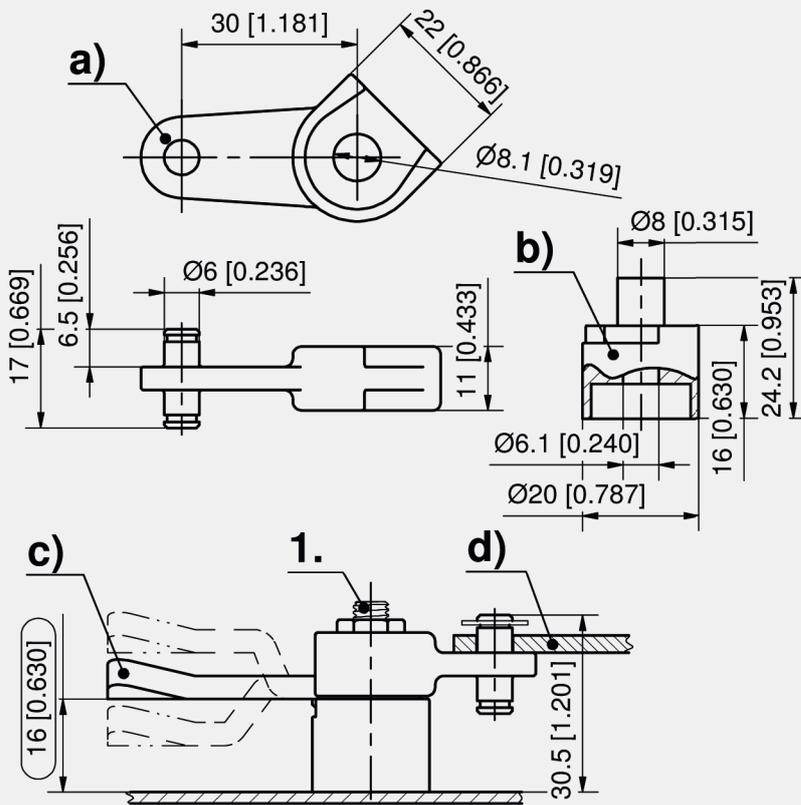
**Cam adapter and spacer:** zinc die, zinc plated

**C-clip:** steel, zinc plated

**Note**

d) For driving rods please contact DIRAK.

H-dimension (18) only for sheet thickness 2 mm.



**Cam adapter**

|    | Part Number       | Type                      | packaging unit |
|----|-------------------|---------------------------|----------------|
| a) | 100-9033.00-00000 | Cam adapter (incl.spacer) | 10             |
| b) | 200-2811.35-00000 | Distance washer           | 10             |

Dust caps and sealing plugs for Quarter-Turns.

### Features

- **Dust caps** for head  
Ø28 mm–Ø32 mm.
- **Material TPU:**
- Excellent resistance to pure mineral oils and greases
- **Sealing plugs** for inner diameter Ø16.1 mm.

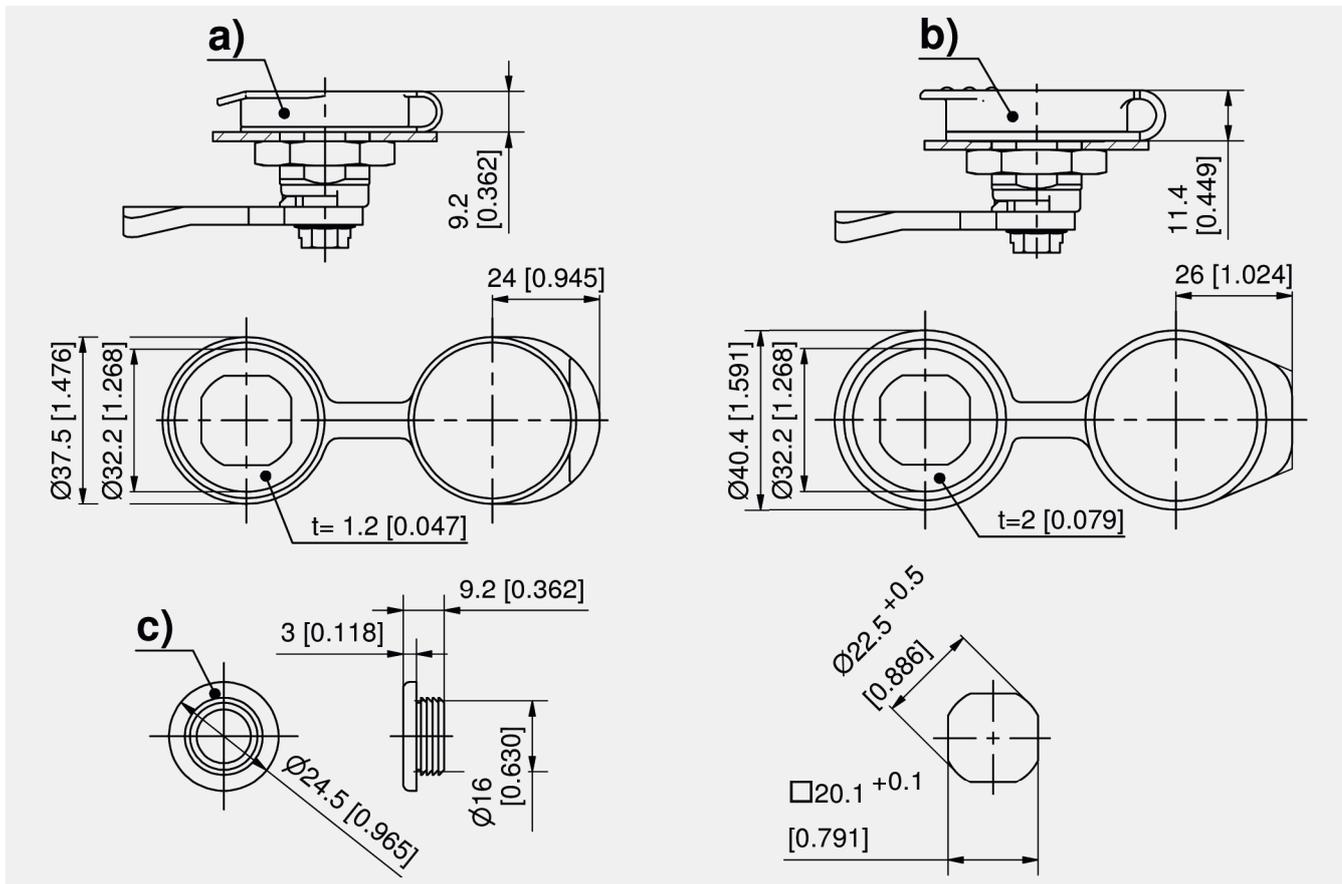
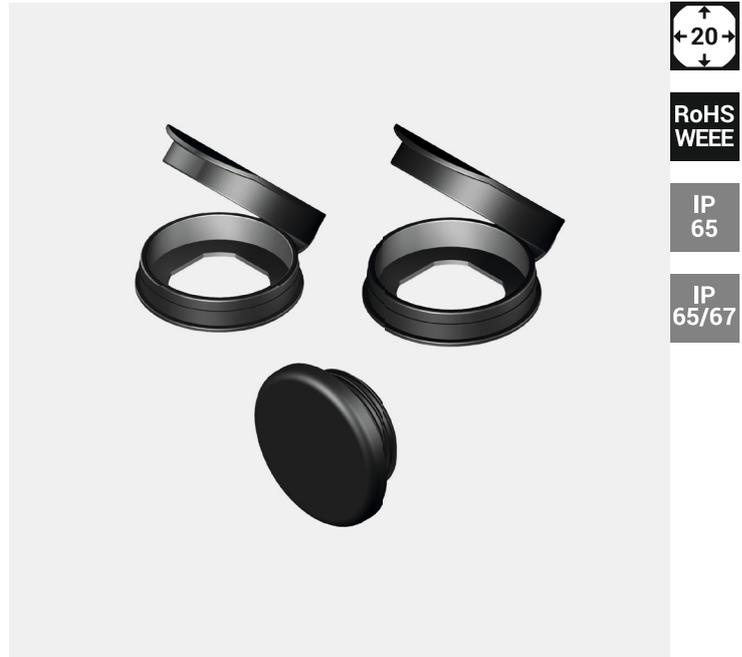
### Material and surface

- **Dust cap:** PP or TPU, black
- **Sealing Plug:** NBR+PVC, black

### Note

By using a dust cap the H-dimension changes by 1.2 respectively 2 mm.

The sealing plug is only for out-side triangular respectively square insert!



### Accessories Quarter-turn

|    | Part Number       | Type         | Material | Surface | According to DIN EN 60529 | Temperature range |
|----|-------------------|--------------|----------|---------|---------------------------|-------------------|
| a) | 200-4101.00-00000 | Dust cap     | PP       | black   | IP65                      | 0° to +80°C       |
| b) | 200-4103.00-00000 | Dust cap     | TPU      | black   | IP65/67                   | -40° to +100°C    |
| c) | 292-0606.00-00000 | Sealing plug | NBR+PVC  | black   | IP65                      |                   |



RoHS  
WEEE



**Features**

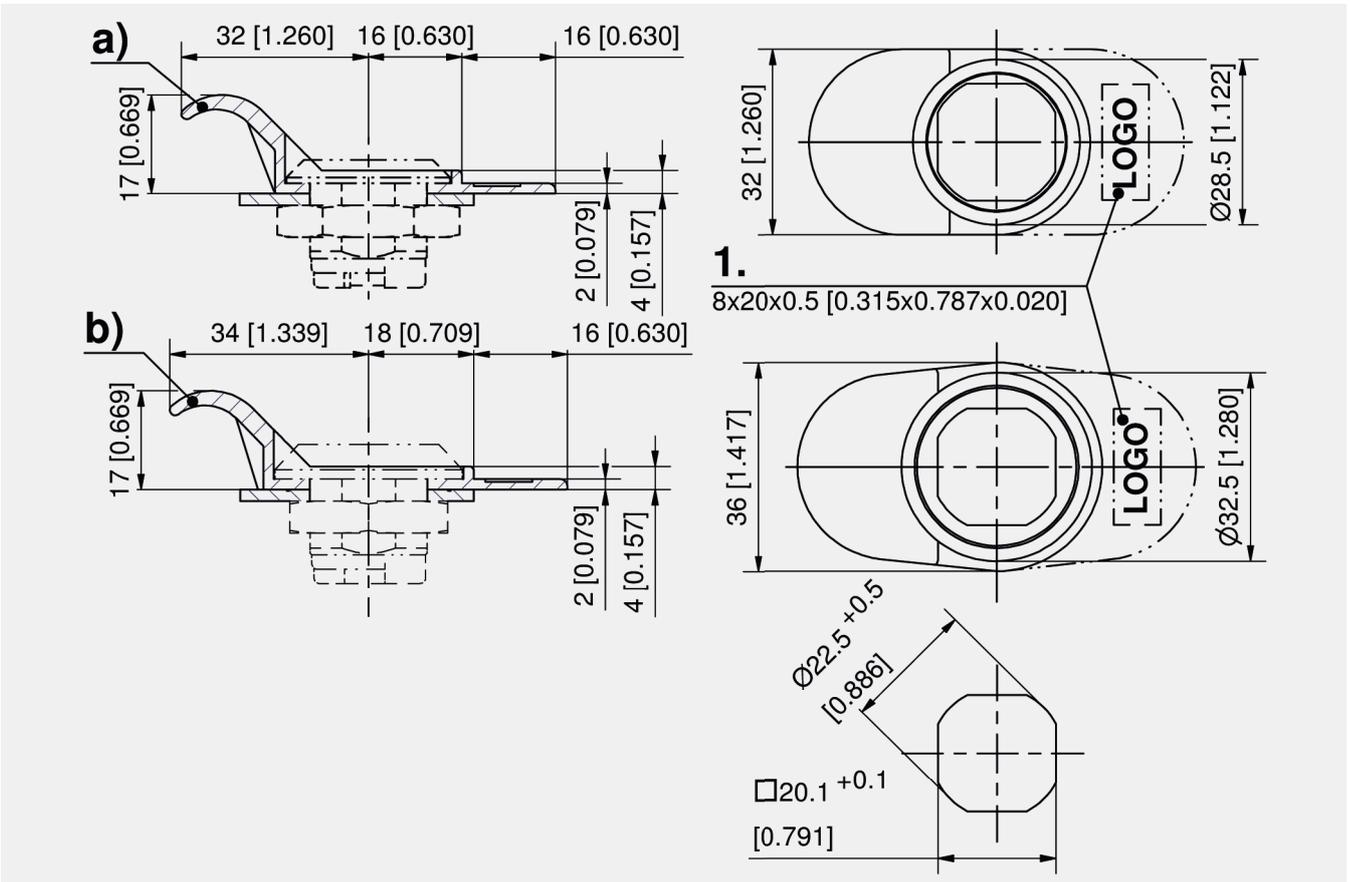
- For head Ø28 mm see product system 1-083, 1-095, 1-100, 1-120, 1-121, 1-210, 7-080 and 7-082.
- For head Ø30/32 mm see product system 1-077, 1-081, 1-085, 1-086, 1-092, 1-100, 1-110, 1-120, 1-200, 7-080.01 and 7-084.
- 1. = Area for company name or logo.
- With Logo on request.

**Material and surface**

Finger Pull: PA, black

**Note**

By using a finger pull the H-dimension changes by 2 mm.



Accessories Quarter-turn

|    | Part Number       | Type            | Material | Surface | Recess for label |
|----|-------------------|-----------------|----------|---------|------------------|
| a) | 200-4703.03-00000 | Finger pull Ø28 | PA       | black   | No               |
| a) | 200-4704.03-00000 | Finger pull Ø28 | PA       | black   | Yes              |
| b) | 200-4705.03-00000 | Finger pull Ø32 | PA       | black   | No               |
| b) | 200-4706.03-00000 | Finger pull Ø32 | PA       | black   | Yes              |

LED module visualises the locking status and regular red flashing indicates open position.

**Features**

- Stand-alone solution.
- For Quarter-turns Pr20.1 with flat head Ø32 mm.
- **Magnet support reversible:**
  1. for cams L35/45
  2. 3-point cam-adapter.
- Cap removable for battery change.
- In combination with IP approved Quarter-turns the LED module requires an **additional flat seal**.

**Material and surface**

**Flash disc:** PMMA  
**Module housing and adapter:** PA

**Note**

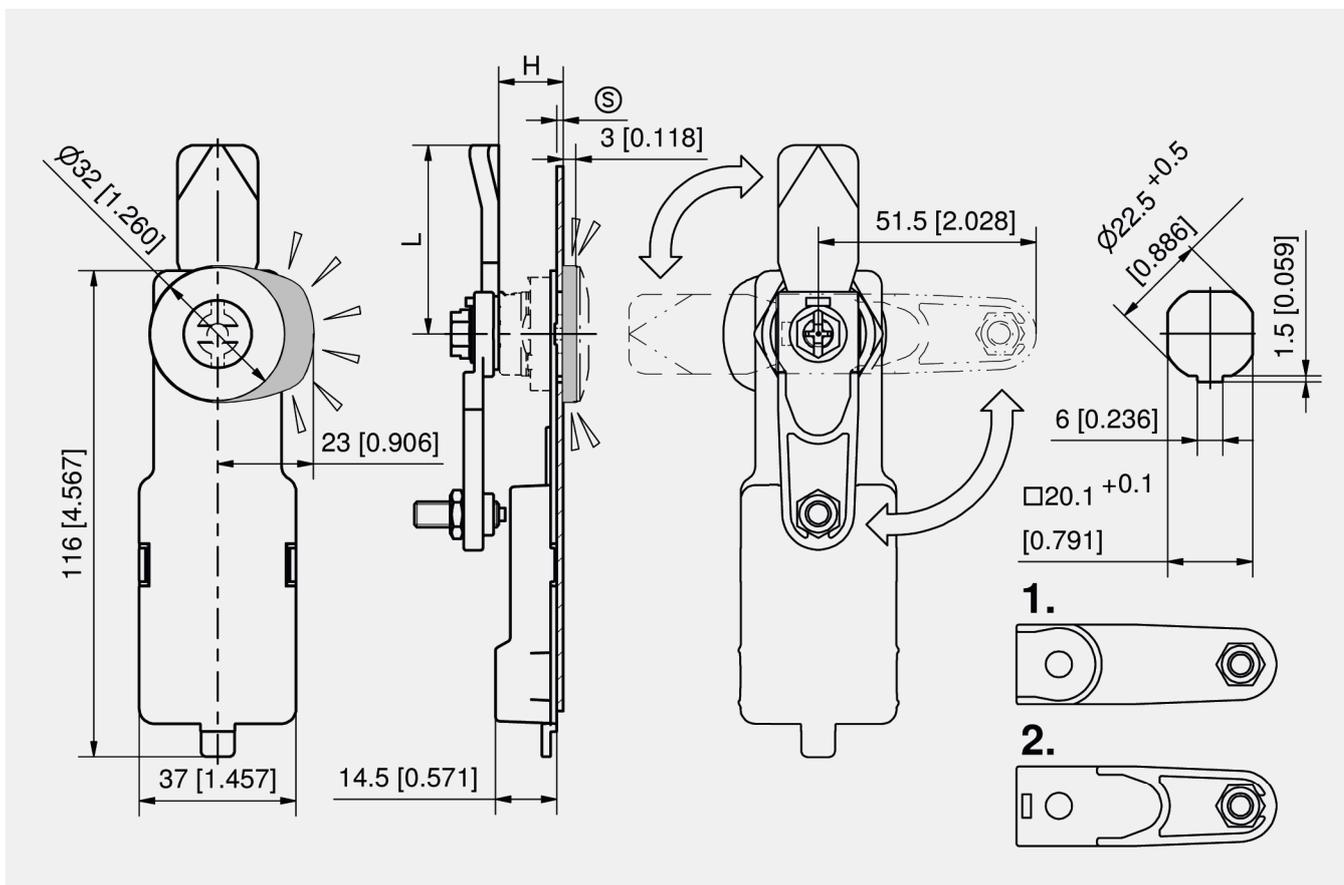
Battery CR2032 3V not included in the scope of delivery.

**Attention:**

Installation of the LED module leads to a max. door thickness of 3.5 mm.  
 Depending on the position of the flash disc the notch in the cutout needs to be adapted.



RoHS  
WEEE



**LED Module**

| Part Number       | Type       | Version      |
|-------------------|------------|--------------|
| 100-9901.00-00000 | LED Module | red flashing |



### Sliding door version LH, slide direction RH

|    | Part Number       | Installation type | H-dimension without lock support | H-dimension with lock support A20 | H-dimension with lock support A26 |
|----|-------------------|-------------------|----------------------------------|-----------------------------------|-----------------------------------|
| a) | 235-9015.00-00000 | screw-on          | 10                               | 20                                | 26                                |
| a) | 235-9017.00-00000 | screw-on          | 32                               | 42                                | 48                                |

### Sliding door version RH, slide direction LH

|    | Part Number       | Installation type | H-dimension without lock support | H-dimension with lock support A20 | H-dimension with lock support A26 |
|----|-------------------|-------------------|----------------------------------|-----------------------------------|-----------------------------------|
| a) | 235-9016.00-00000 | screw-on          | 10                               | 20                                | 26                                |
| a) | 235-9018.00-00000 | screw-on          | 32                               | 42                                | 48                                |

|   |                   |                                 |
|---|-------------------|---------------------------------|
| * | 235-1001.00-00000 | Lock support A20                |
|   | 235-1002.00-00000 | Lock support A26                |
|   | 235-9101.00-00000 | Insert, Square 6 mm             |
|   | 235-9102.00-00000 | Insert, Square 7 mm             |
|   | 235-9103.00-00000 | Insert, Square 8 mm             |
|   | 235-9104.00-00000 | Insert, Triangular 6.5 mm CNOMO |
|   | 235-9105.00-00000 | Insert, Triangular 7 mm         |
|   | 235-9106.00-00000 | Insert, Triangular 8 mm         |
|   | 235-9107.00-00000 | Insert, Double bit 3 mm pin     |
|   | 235-9108.00-00000 | Insert, Double bit 5 mm pin     |
|   | 235-9109.00-00000 | Insert, Daimler Benz pin        |
|   | 235-9201.00-00000 | Escutcheon A20 for Double bit   |
|   | 235-9202.00-00000 | Escutcheon A26, for Double bit  |
|   | 235-9203.00-00000 | Escutcheon A20, universal       |
|   | 235-9204.00-00000 | Escutcheon A26, universal       |



Swinghandle with 90° closing rotation. For 3-point cams/round rods.

**Features**

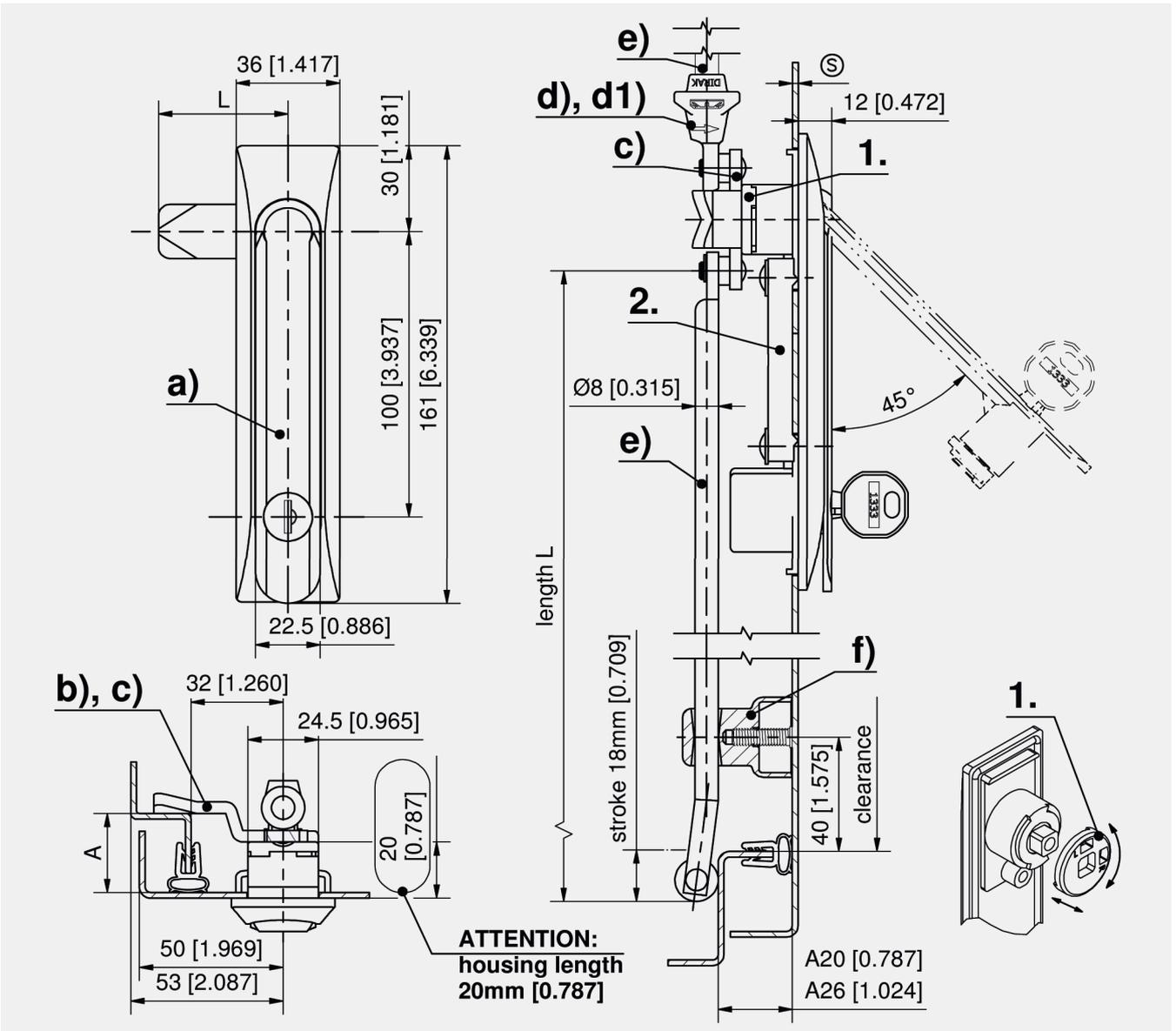
- Low profile design.
- Cylinder barrel DIRAK 1333 with stainless steel dust cap.
- The pre-assembled swinghandle (single or 3-point cam) can be inserted from the back into the cutout and secured with screws.
- RH / LH application is achieved by the rotating bottom with limiting stop at 90°.
- IP65 DIN EN 60529 by captive sealing.
- Key with synthetic coated grip.

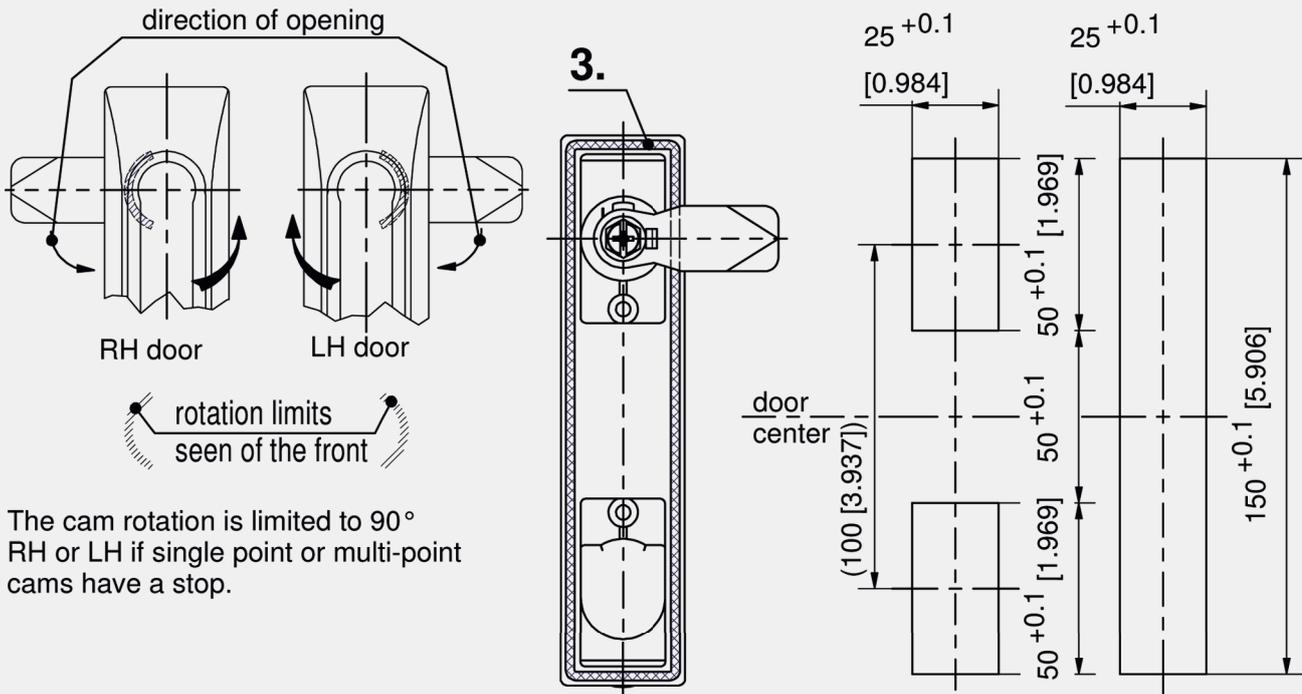
**Material and surface**

- Swinghandle, shaft and bottom:** zinc die, black
- Dish:** PA6, black
- Cam:** zinc die, untreated
- O-ring:** NBR
- Seal:** TPE
- Screws and clamp:** steel, zinc plated

**Note**

- H-dimension of cam** ≥ 16 mm.
- (S) = max. 3 mm
- 1. = Rotating bottom
- 2. = Clamp
- 3. = Captive seal





The cam rotation is limited to 90°  
RH or LH if single point or multi-point  
cams have a stop.

Formula for rods with eye and rollers:  
cutout in the door center (rod length varies)

$$L = \frac{\text{upper rod clearance} - 12\text{mm}[0.472]}{2 [0.079]} - 50 \text{ mm} [1.969]$$

$$L = \frac{\text{lower rod clearance} - 12\text{mm}[0.472]}{2 [0.079]} + 50 \text{ mm} [1.969]$$

cutout outside the door center (rod length equal)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2[0.079]}$$

### Swinghandle

|    | Part Number       | Latching type | Installation type | Lockable |
|----|-------------------|---------------|-------------------|----------|
| a) | 407-9604.00-00000 | Cylinder      | screw-on          | Yes      |

SNAP

C



DIN 61373

IP 65



RoHS WEEE



Swinghandle with 90° closing rotation. For 3-point cams / round rods.

**Features**

- Low profile design.
- Cylinder barrel DIRAK 1333 with stainless steel dust cap.
- The pre-assembled Swinghandle (single or 3-point cam) can simply be snapped into the cutout.
- RH / LH application is achieved by the rotating bottom with limiting stop at 90°.
- IP65 DIN EN 60529 by captive sealing.
- Key with synthetic coated grip.

**Material and surface**

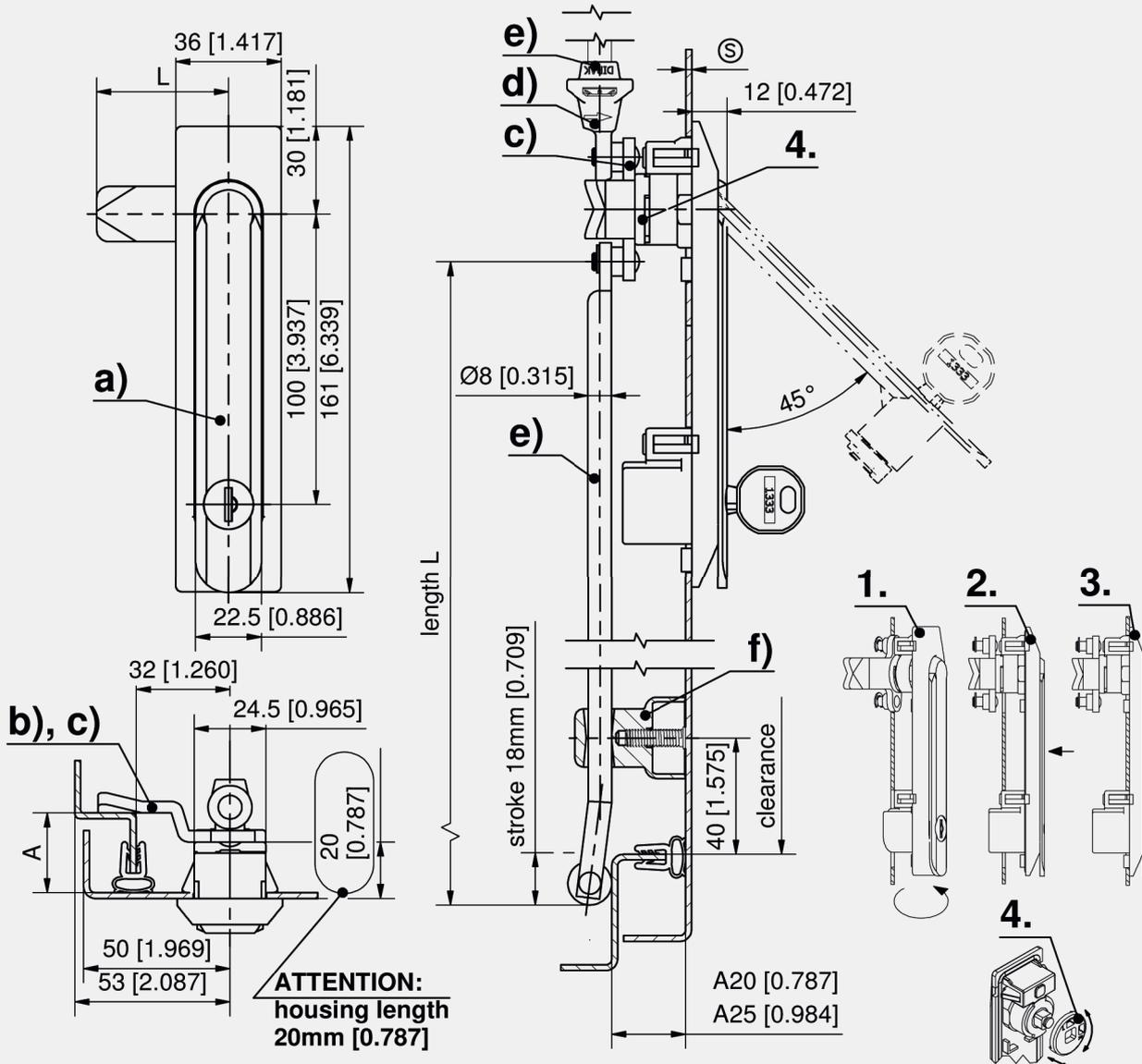
**Swinghandle and dish:** zinc die, black

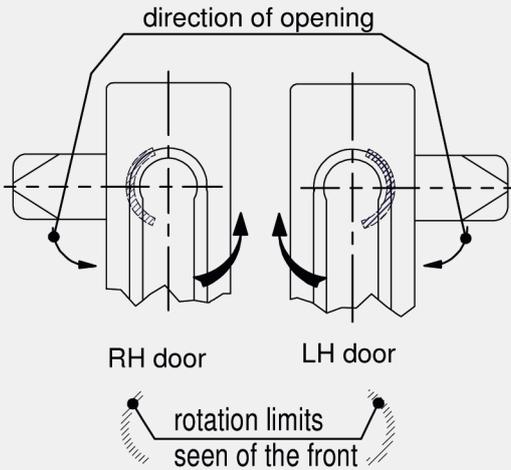
**Seal:** TPE

**Note**

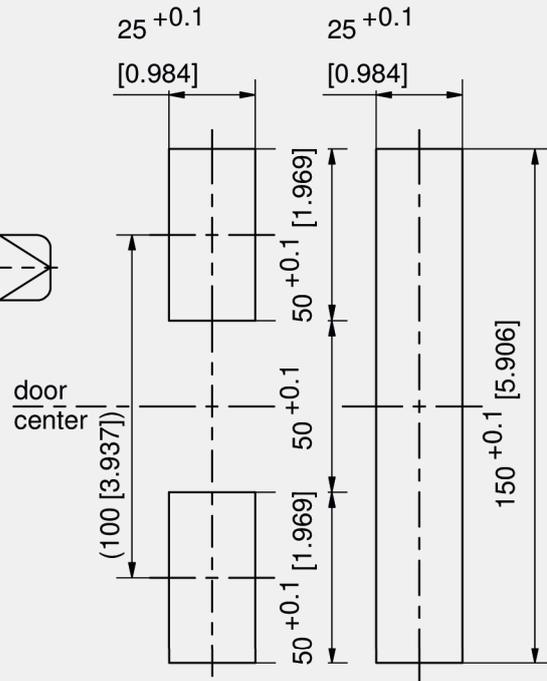
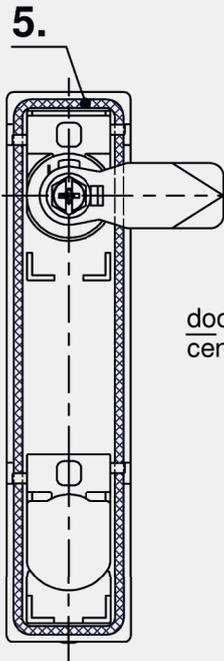
**H-dimension of cam ≥ 16 mm.**

1. = Guide Swinghandle with pre-assembled cam through upper cutout
2. = Swinghandle completely snapped in
3. = Final position fully snapped
4. = Rotating bottom
5. = Captive seal





The cam rotation is limited to 90°  
RH or LH if single point or multi-point  
cams have a stop.



Formula for rods with eye and rollers:  
cutout in the door center (rod length varies)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} - 50 \text{ mm} [1.969]$$

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} + 50 \text{ mm} [1.969]$$

cutout outside the door center (rod length equal)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2[0.079]}$$

### Swinghandle zinc die, black with cylinder barrel

|    | Part Number       | Latching type           | Installation type | Clamping range |
|----|-------------------|-------------------------|-------------------|----------------|
| a) | 407-9601.00-00015 | keyed alike DIRAK 1333  | snap-in           | 1,2-1,7        |
| a) | 407-9601.00-00020 | keyed alike DIRAK 1333  | snap-in           | 1,7-2,2        |
| a) | 407-9601.00-00025 | keyed alike DIRAK 1333  | snap-in           | 2,2-2,7        |
|    | 292-0306.80-02530 | Tool for uninstallation |                   |                |

SNAP



IP 65



RoHS WEEE



Swinghandle with 90° closing rotation. For 3-point cams / round rods.

**Features**

- Low profile design.
- Cylinder barrel DIRAK 1333 with stainless steel dust cap.
- The pre-assembled Swinghandle (single or 3-point cam) can simply be snapped into the cutout.
- RH / LH application is achieved by the rotating bottom with limiting stop at 90°.
- IP65 DIN EN 60529 by captive sealing.
- Key with synthetic coated grip.

**Material and surface**

**Swinghandle:** zinc die, black

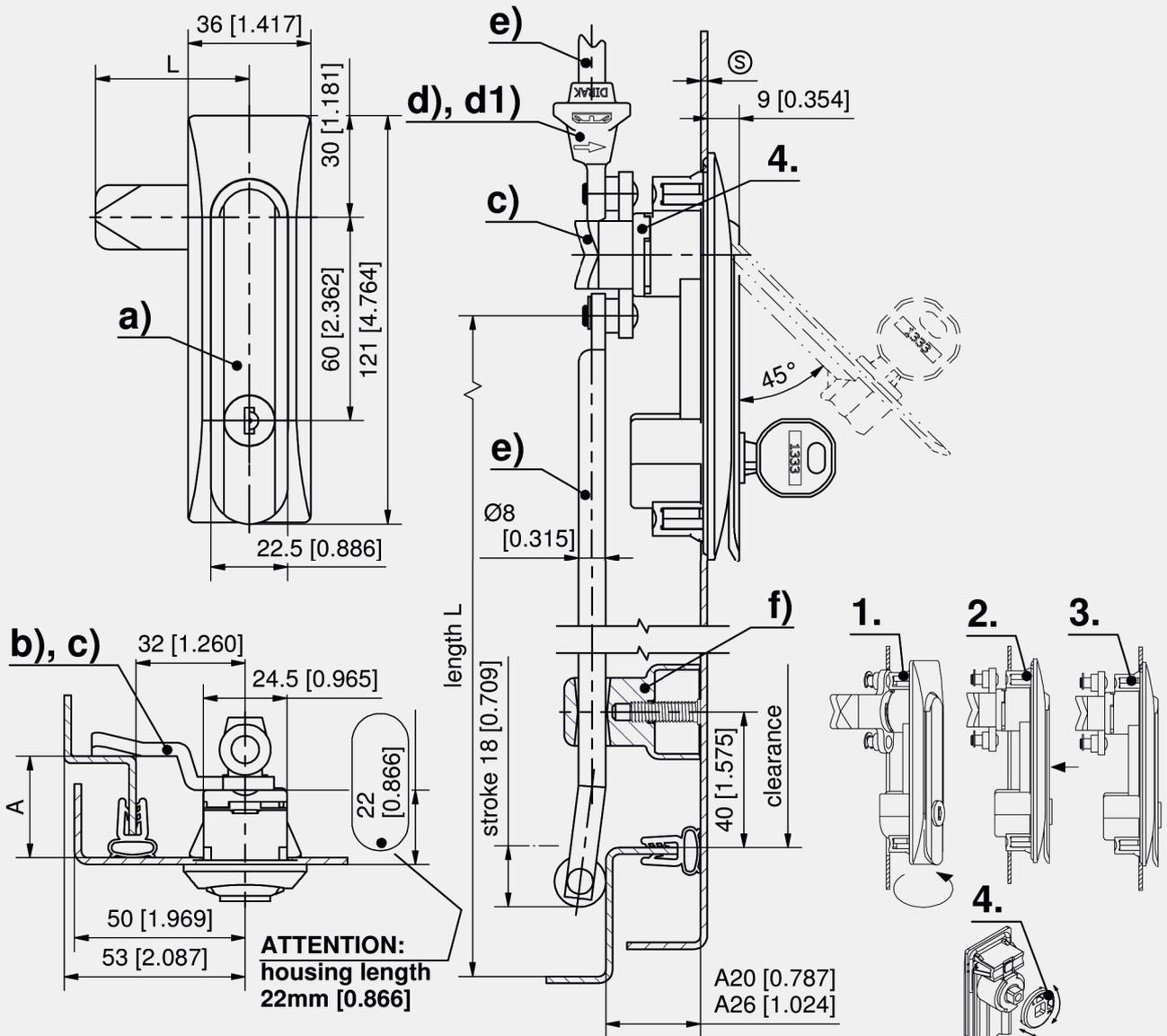
**Dish:** PA6, black

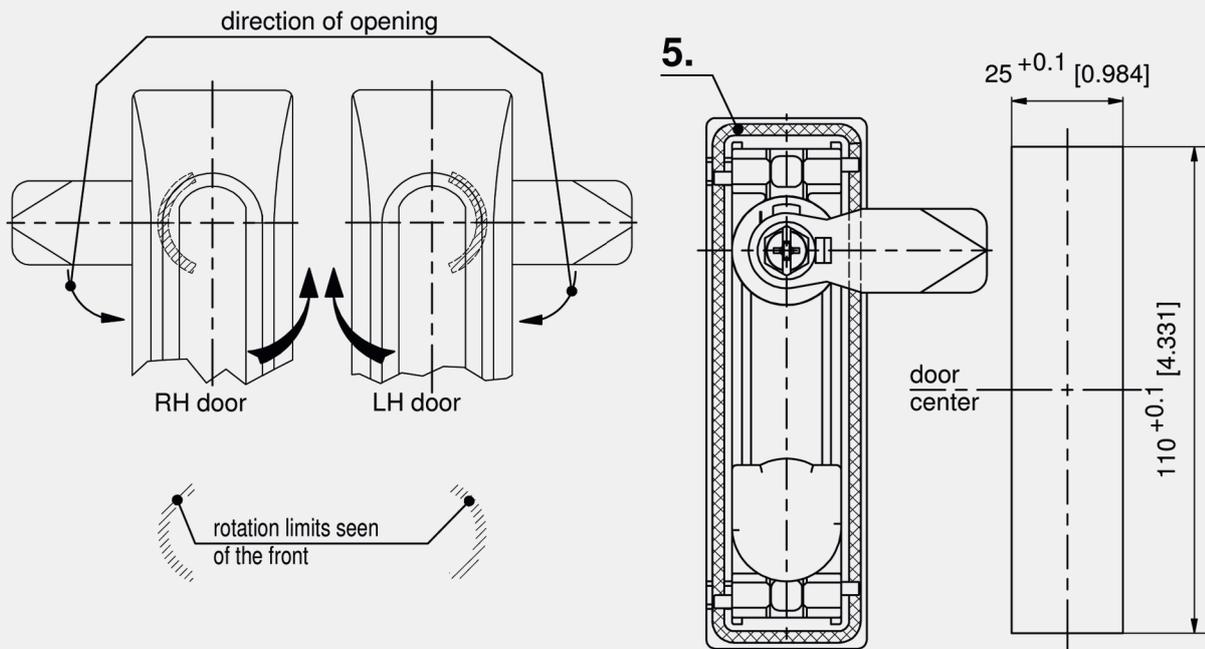
**Seal:** TPE

**Note**

**H-dimension of cam ≥ 10 mm.**

1. = Guide Swinghandle with pre-assembled cam through upper cutout
2. = Swinghandle completely snapped in
3. = Final position fully snapped
4. = Rotating bottom
5. = Captive seal





The cam rotation is limited to 90°  
 RH or LH if single point or multi-point  
 cams have a stop.

Formula for rods with eye and rollers:  
 cutout in the door center (rod length varies)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} - 30 \text{ mm} [1.181]$$

upper rod

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} + 30 \text{ mm} [1.181]$$

lower rod

cutout outside the door center (rod length equal)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2[0.079]}$$

Swinghandle, handle zinc die, dish PA, black with cylinder barrel

|    | Part Number       | Latching type           | Installation type | Clamping range |
|----|-------------------|-------------------------|-------------------|----------------|
| a) | 407-9602.00-00015 | keyed alike DIRAK 1333  | snap-in           | 1,2–1,7        |
| a) | 407-9602.00-00020 | keyed alike DIRAK 1333  | snap-in           | 1,7–2,2        |
| a) | 407-9602.00-00025 | keyed alike DIRAK 1333  | snap-in           | 2,2–2,7        |
|    | 292-0306.80-02530 | Tool for uninstallation |                   |                |

SNAP



RoHS  
WEEE



Swinghandle with 90° closing rotation. For 3-point cams / round rods.

**Features**

- Low profile design.
- Cylinder barrel DIRAK 1333 with stainless steel dust cap.
- The pre-assembled Swinghandle (single or 3-point cam) can simply be snapped into the cutout.
- RH / LH application is achieved by the rotating bottom with limiting stop at 90°.
- Key with synthetic coated grip.

**Material and surface**

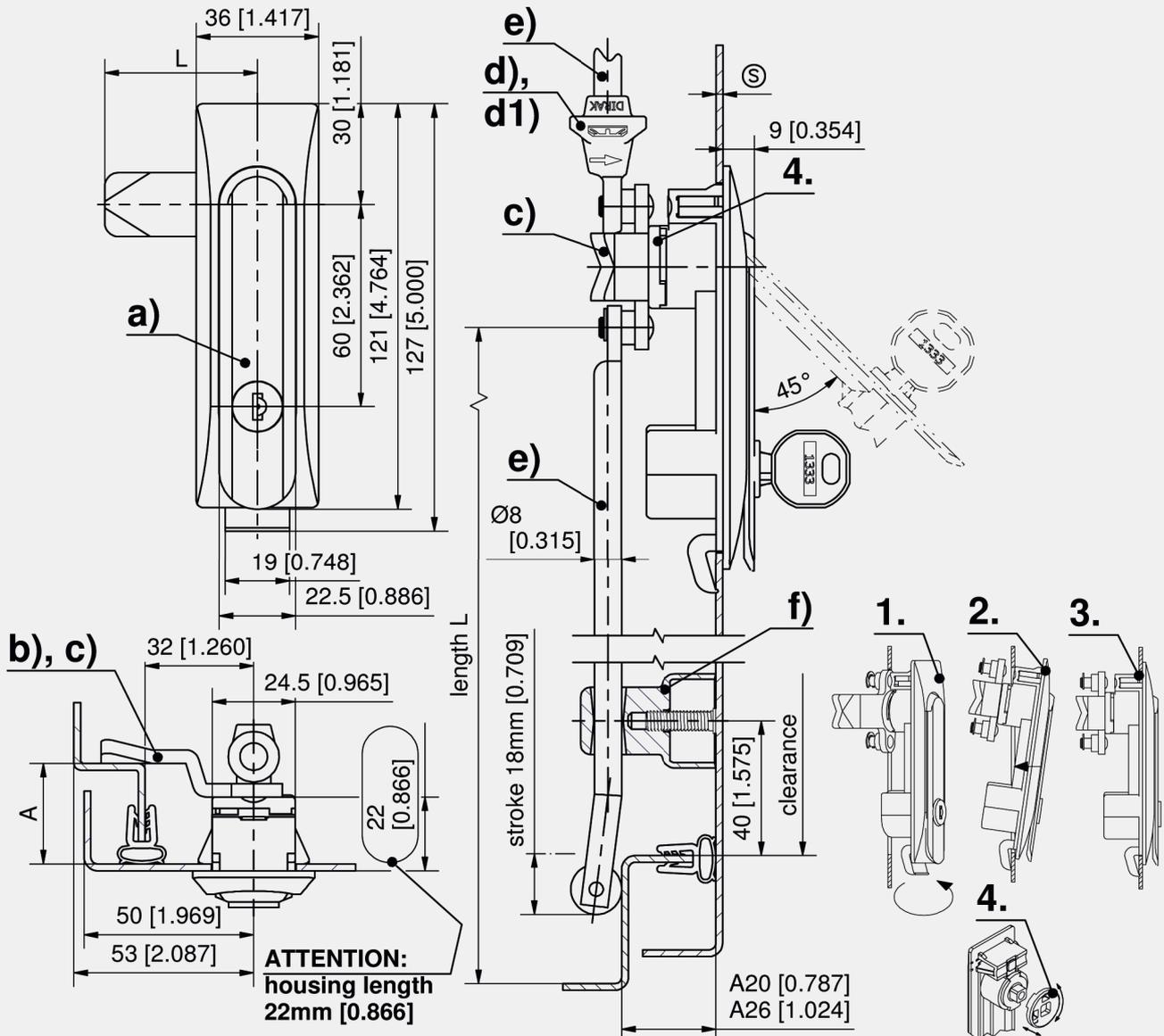
**Swinghandle:** zinc die, black

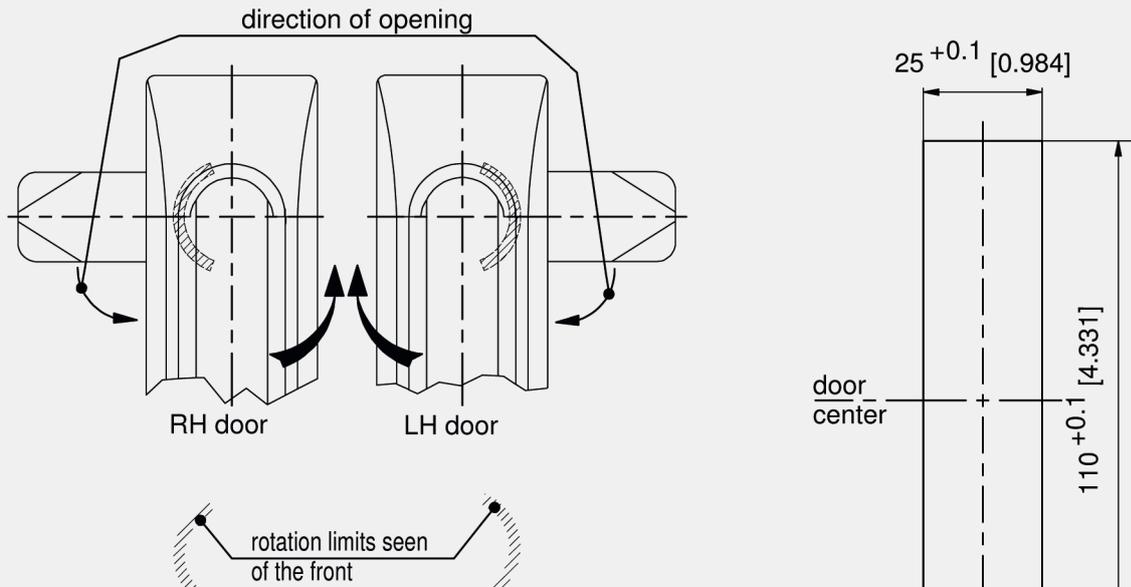
**Dish:** PA6, black

**Note**

**H-dimension of cam ≥ 10 mm.**

1. = Guide Swinghandle with pre-assembled cam through cutout
2. = Put lower hook into position and snap upper part into final position
3. = Final position fully snapped
4. = Rotating bottom





The cam rotation is limited to 90°  
 RH or LH if single point or multi-point  
 cams have a stop.

Formula for rods with eye and rollers:  
 cutout in the door center (rod length varies)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} - 30 \text{ mm} [1.181]$$

upper rod

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} + 30 \text{ mm} [1.181]$$

lower rod

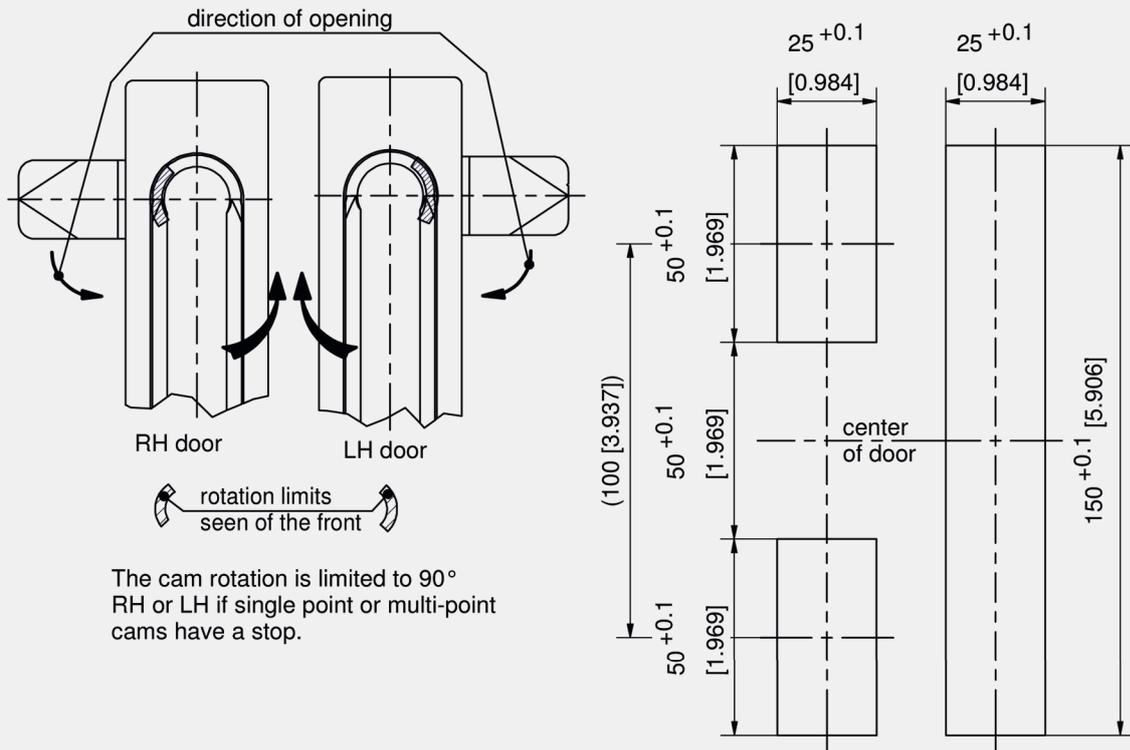
cutout outside the door center (rod length equal)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2[0.079]}$$

Swinghandle, handle zinc die, dish PA, black with cylinder barrel

|    | Part Number       | Latching type           | Installation type | Clamping range |
|----|-------------------|-------------------------|-------------------|----------------|
| a) | 407-9603.00-00015 | keyed alike DIRAK 1333  | snap-in           | 1,2–1,7        |
| a) | 407-9603.00-00020 | keyed alike DIRAK 1333  | snap-in           | 1,7–2,2        |
| a) | 407-9603.00-00025 | keyed alike DIRAK 1333  | snap-in           | 2,2–2,7        |
|    | 292-0306.80-02530 | Tool for uninstallation |                   |                |





Formula for rods with eye and rollers:  
cutout in the door center (rod length varies)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} - 50 \text{ mm} [1.969]$$

upper rod

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} + 50 \text{ mm} [1.969]$$

lower rod

cutout outside the door center (rod length equal)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]}$$

Swinghandle, handle zinc die, dish PA, black with cylinder barrel

|    | Part Number       | Latching type           | Installation type | Clamping range |
|----|-------------------|-------------------------|-------------------|----------------|
| a) | 407-9606.00-00015 | keyed alike DIRAK 1333  | snap-in           | 1,2-1,7        |
| a) | 407-9606.00-00020 | keyed alike DIRAK 1333  | snap-in           | 1,7-2,2        |
| *  | 292-0306.80-02530 | Tool for uninstallation |                   |                |

- 
- RC2**
- 
- 
- DIN 61373**
- IP 65**
- 
- RoHS WEEE**



Swinghandle zinc die, black for profile cylinder, RCII testet, 90° closing rotation. For metal and plastic enclosures.

**Features**

- RH / LH application.
- Protected against unauthorized access by a bolt.
- Spring loaded, leap up handle.
- For profile-cylinders with length of 40 and 45 mm.
- Cylinder cover magnetically secured.
- IP65 according to DIN EN 60529.
- Tested according to security class RCII (DIN EN 1630).
- Vibration-proof according to DIN EN 61373.

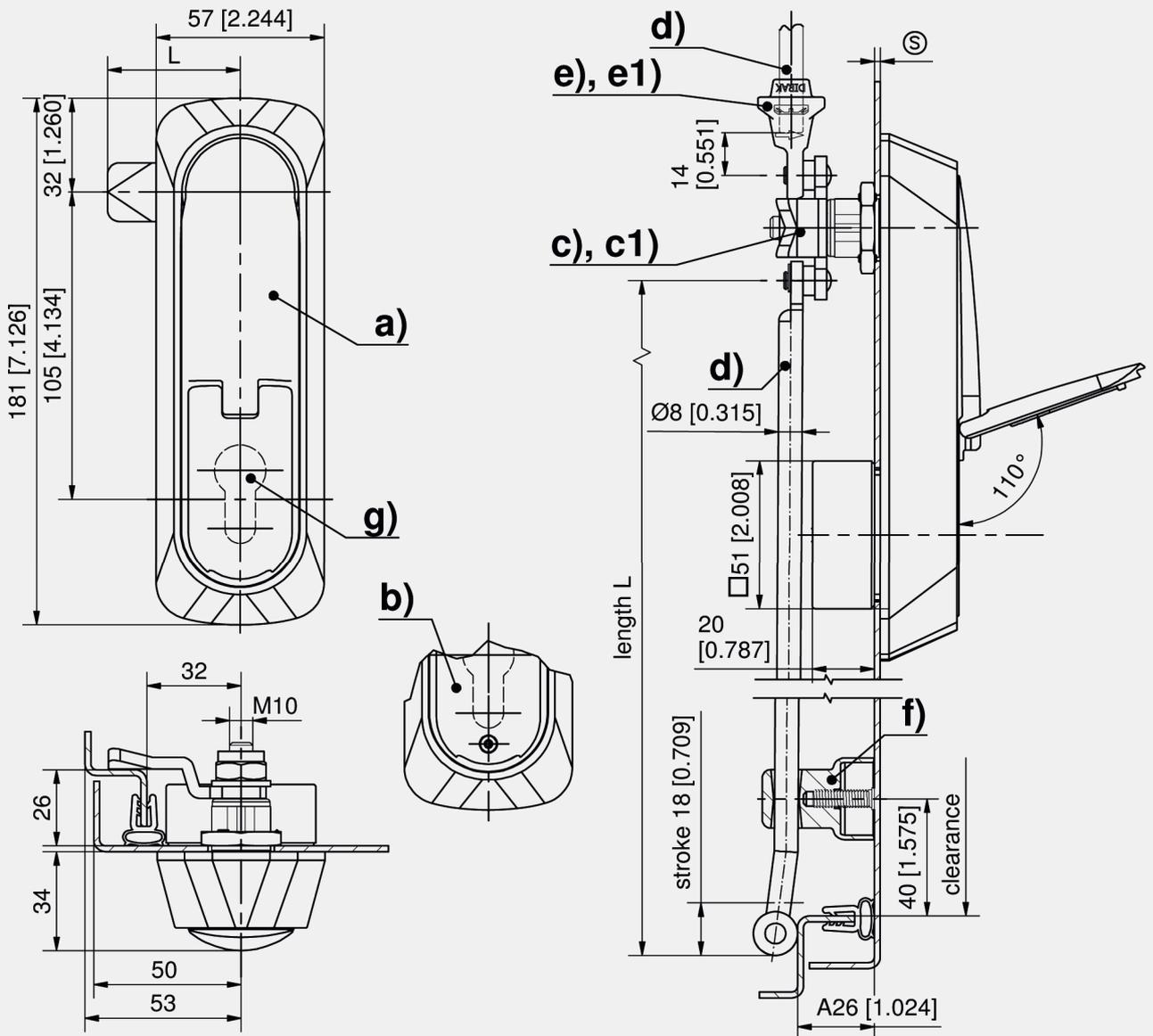
**Material and surface**

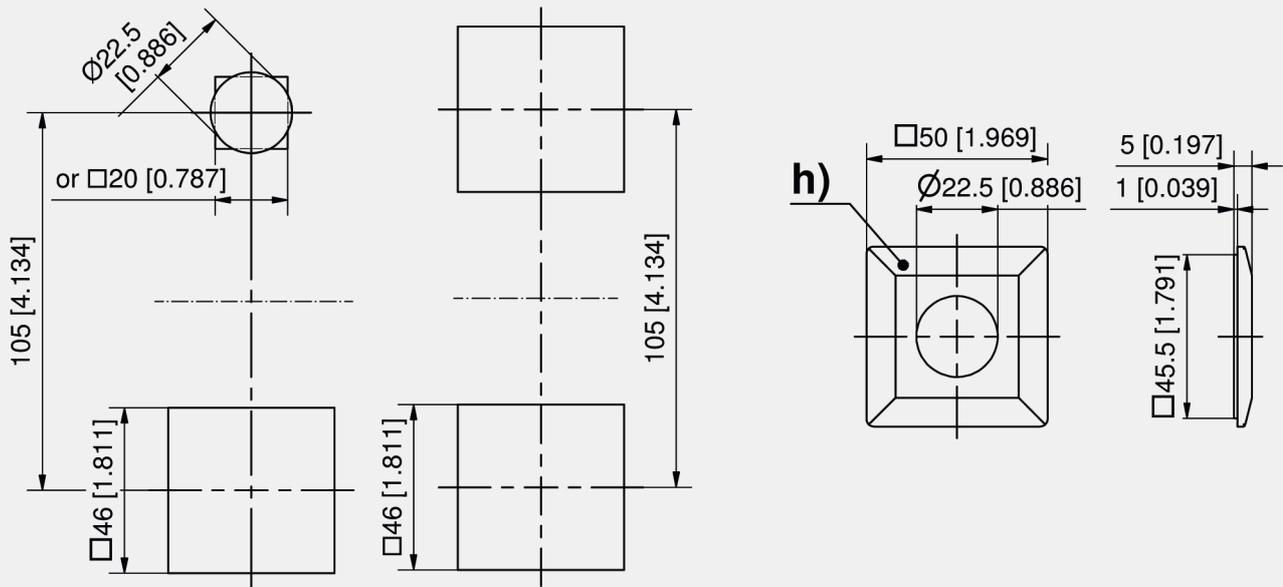
a) and b)  
**Swinghandle, dish, dust cover and cap:** zinc die, black

**Note**

To use the same door both RH and LH, 2 holes  $\square 46$ , symmetrical to door center are possible.

(S) max. 8 mm.





Formula for rods with eye and rollers:  
cutout in the door center (rod length varies)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} - 53 \text{ mm} [2.087]$$

upper rod

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} + 53 \text{ mm} [2.087]$$

lower rod

cutout outside the door center (rod length equal)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2[0.079]}$$

### Swinghandle zinc die, black for PHZ, RC II testet

|    | Part Number       | Latching type | Installation type | Cylinder cover     | Internal cover |
|----|-------------------|---------------|-------------------|--------------------|----------------|
| a) | 207-9130.00-00000 | PHZ 40/45 mm  | screw-on          | zinc die           | □46            |
| b) | 207-9131.00-00000 | PHZ 40/45 mm  | screw-on          | zinc die screwable | □46            |

|   | Function extension              | Part Number       |
|---|---------------------------------|-------------------|
| + | Adapter for cutout 46 mm square | 602-0016.35-00000 |
|   | Gasket for adapter              | 207-2803.00-00000 |



Dual cylinder swinghandle with pivotable operating lever. Fully insulated for installation in plastic cabinets.

**Features**

- Two profile cylinders with lengths of 40 and / or 45 mm, allow opening by each cylinder without unlocking the other one.
- Latch bolt securely locked against unauthorized opening.
- IP65 according to DIN EN 60529.
- a) Latch bolt with chamfer. Closing is possible if key is removed.
- b) Latch bolt with detent. Detent requires turning the key.

**Material and surface**

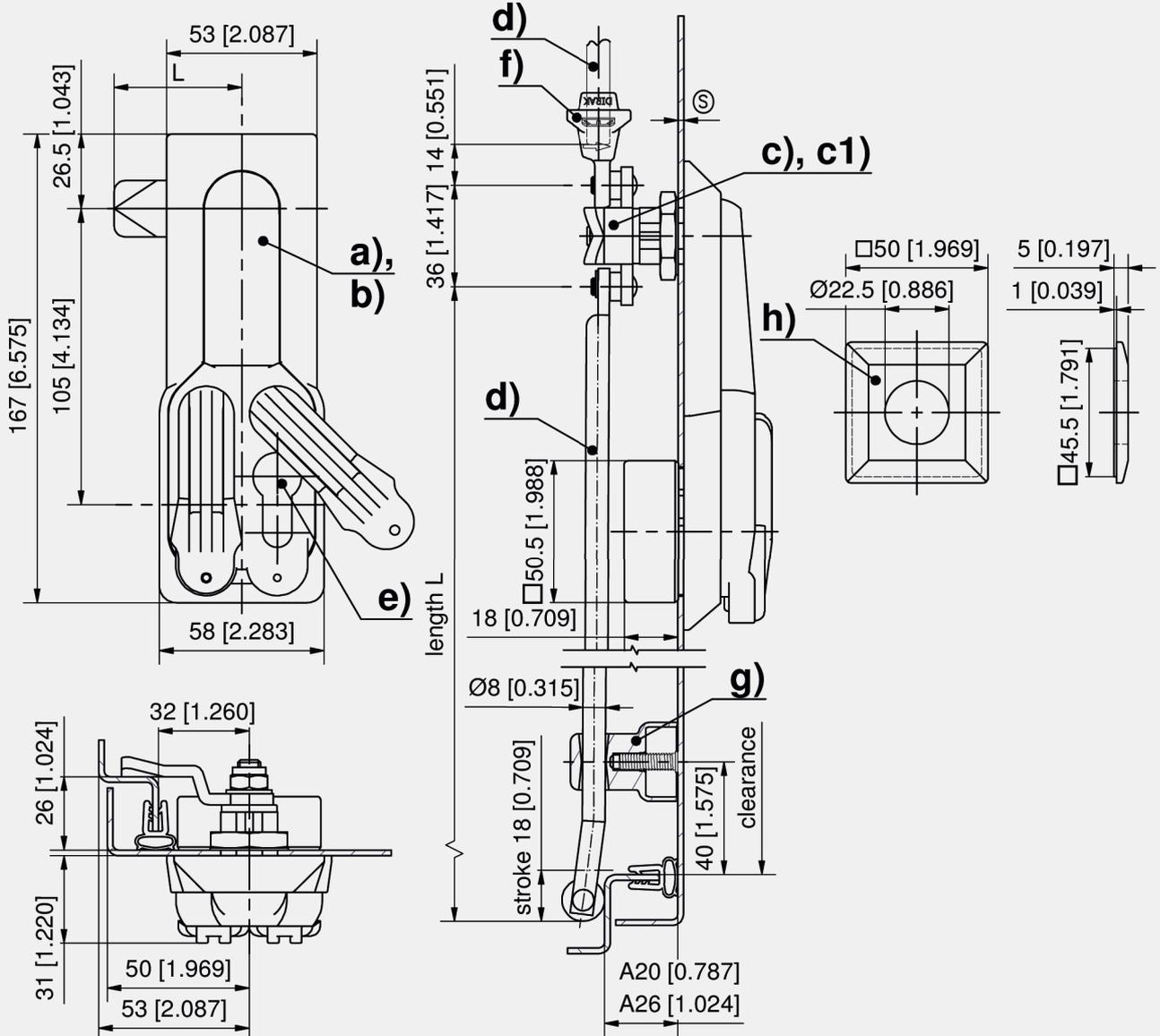
a) and, b)  
Swinghandle and dish: PA, black

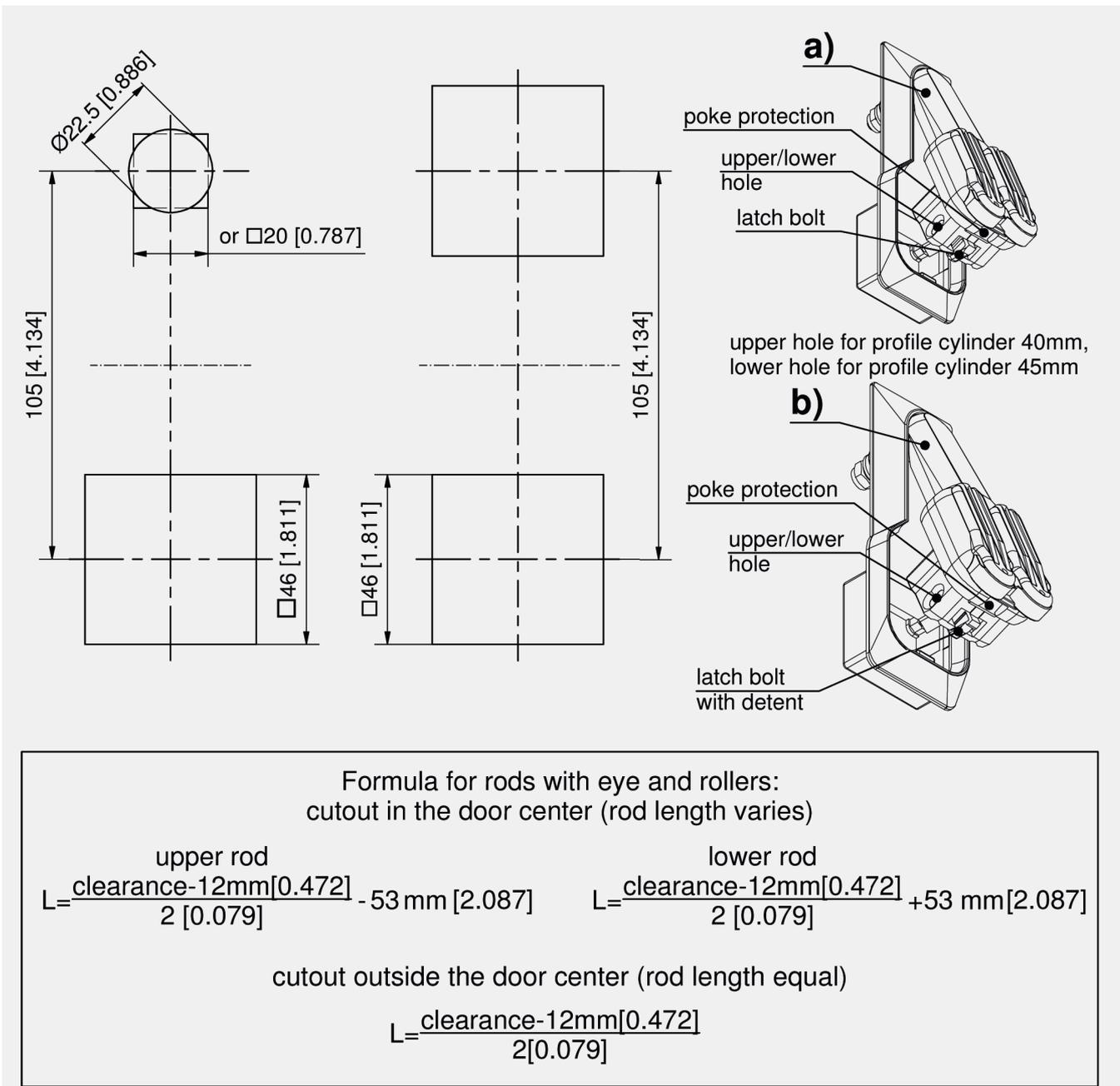
**Note**

Upgrading with steel insert (saw protection) possible.

To use the same door both RH and LH, 2 holes □46, symmetrical to door center are possible.

(S) = max. 3 mm





### Dual cylinder swinghandle

|                     | Part Number       | Latching type   | Cylinder cover | Sealable | Internal cover | Version                   |
|---------------------|-------------------|-----------------|----------------|----------|----------------|---------------------------|
| a)                  | 207-9617.00-00000 | PHZ 40/45 mm    | PA, reinforced | Yes      | □46            | Latch bolt without detent |
| b)                  | 207-9618.00-00000 | PHZ 40/45 mm    | PA, reinforced | Yes      | □46            | Latch bolt with detent    |
| * 204-0301.00-00000 |                   | Building Key PC |                |          |                |                           |

| + | Function extension              | Part Number       |
|---|---------------------------------|-------------------|
|   | Gasket for adapter              | 207-2803.00-00000 |
|   | Adapter for cutout 46 mm square | 207-2702.03-00000 |



Dual cylinder swinghandle with pivotable operating lever. Fully insulated for installation in plastic cabinets.

**Features**

- Two profile cylinders with lengths of 40 and / or 45 mm, allow opening by each cylinder without unlocking the other one.
- Latch bolt securely locked against unauthorized opening.
- IP65 according to DIN EN 60529.
- a) Latch bolt with chamfer. Closing is possible if key is removed.
- b) Latch bolt with detent. Detent requires turning the key.

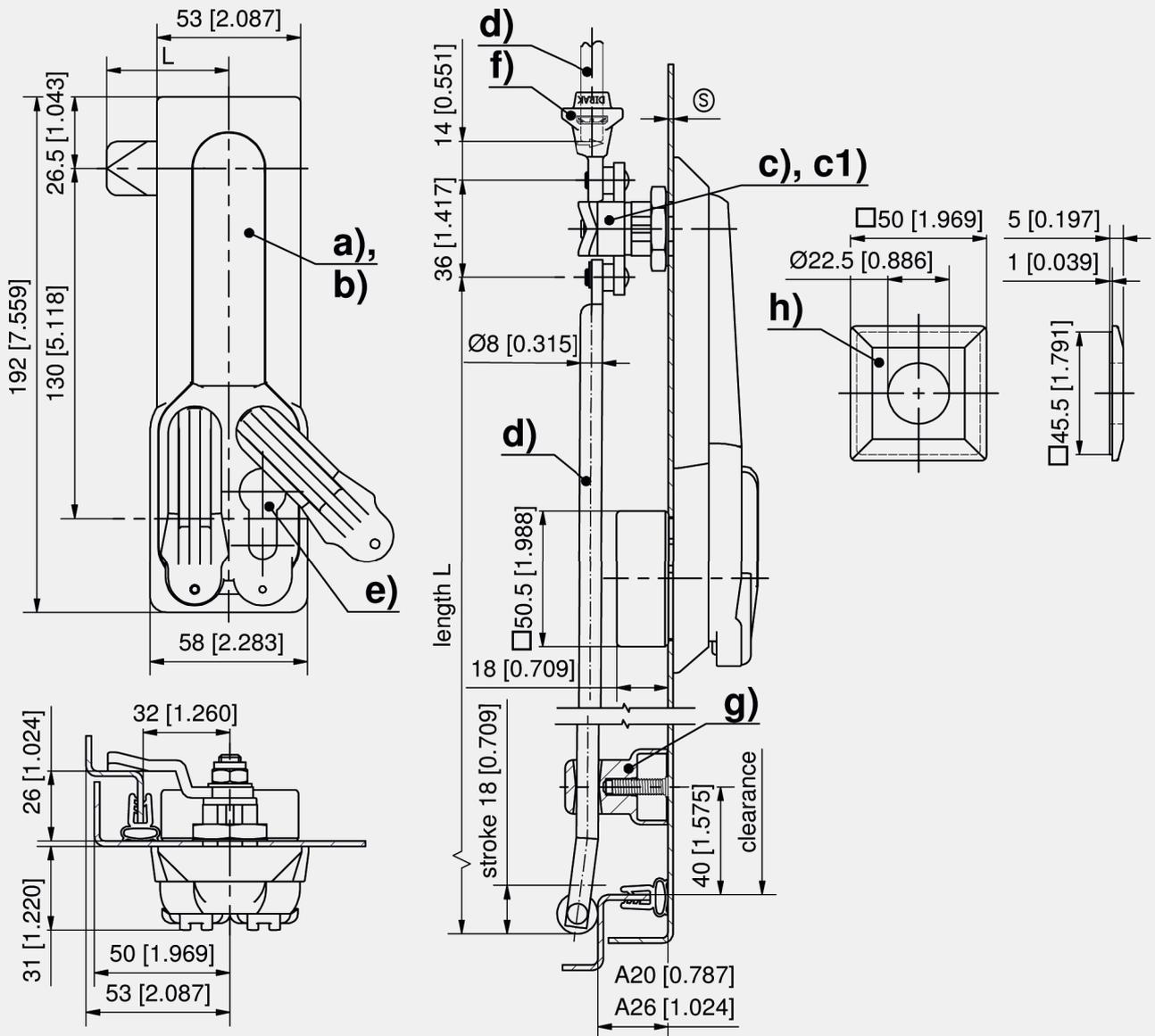
**Material and surface**

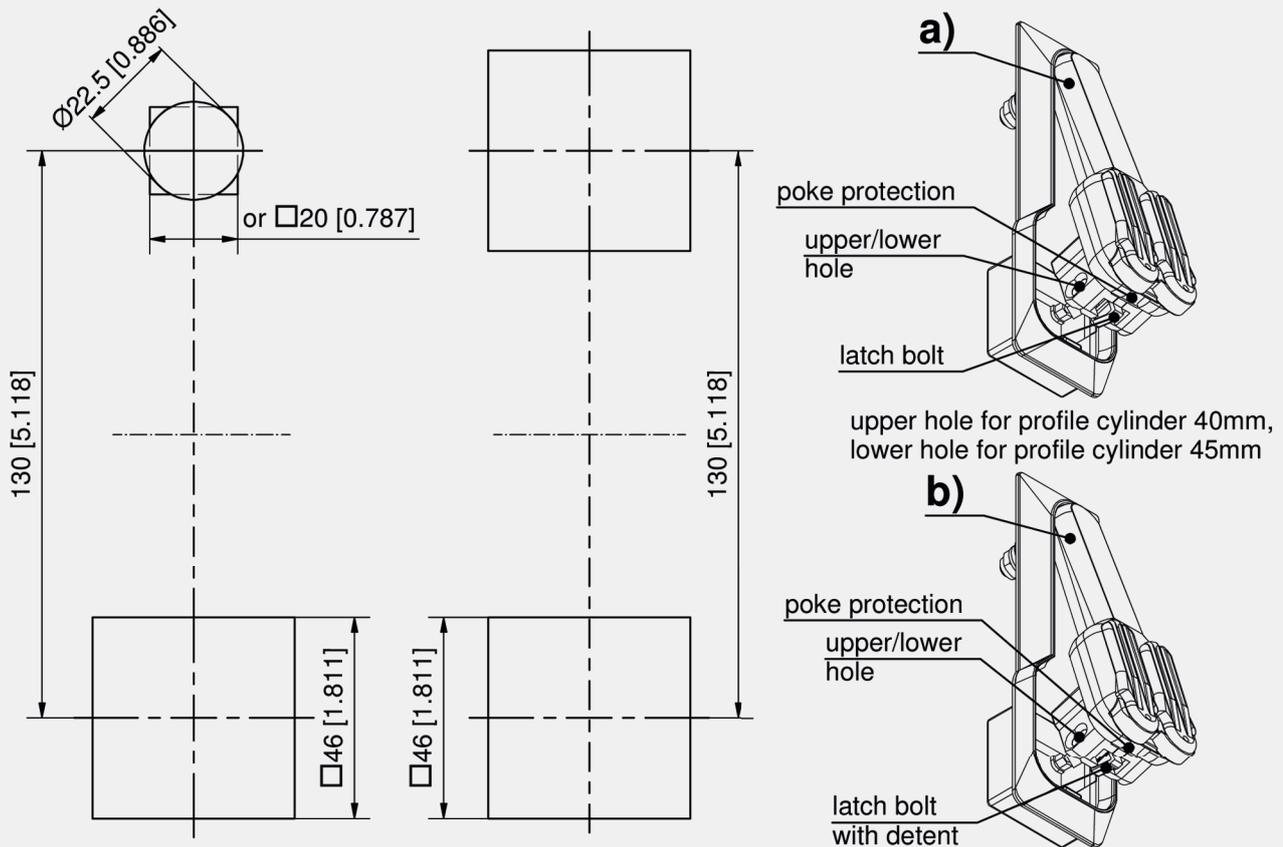
a) and, b)  
**Swinghandle and dish:** PA, black

**Note**

Upgrading with steel insert (saw protection) possible.  
 To use the same door both RH and LH, 2 holes  $\square 46$ , symmetrical to door center are possible.

(S) = max. 3 mm





Formula for rods with eye and rollers:  
cutout in the door center (rod length varies)

$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} - 65 \text{ mm} [2.559]$ 

 $L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} + 65 \text{ mm} [2.559]$

cutout outside the door center (rod length equal)

$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2[0.079]}$

### Dual cylinder swinghandle

|    | Part Number       | Latching type    | Cylinder cover | Sealable | Internal cover | Version                   |
|----|-------------------|------------------|----------------|----------|----------------|---------------------------|
| a) | 207-9417.00-00000 | Profile-Cylinder | PA, reinforced | Yes      | □46            | Latch bolt without detent |
| b) | 207-9418.00-00000 | Profile-Cylinder | PA, reinforced | Yes      | □46            | Latch bolt with detent    |
|    | 204-0301.00-00000 | Building Key PC  |                |          |                |                           |

|  | Function extension              | Part Number       |
|--|---------------------------------|-------------------|
|  | Adapter for cutout 46 mm square | 207-2702.03-00000 |
|  | Gasket for adapter              | 207-2803.00-00000 |

SNAP

RoHS  
WEEE



**Features**

- This catch was developed for tool-less adjustment of all standard cams and is suitable for M10 square threaded rods.
- Manually adjustable.
- Variable and easy adjustment with stop washer.
- Adjustment track per click 0.25 mm.
- Vibration-proof.
- Readjustment possible at any time (e.g. compressed sealing).
- For cams with and without stop.

**Material and surface**

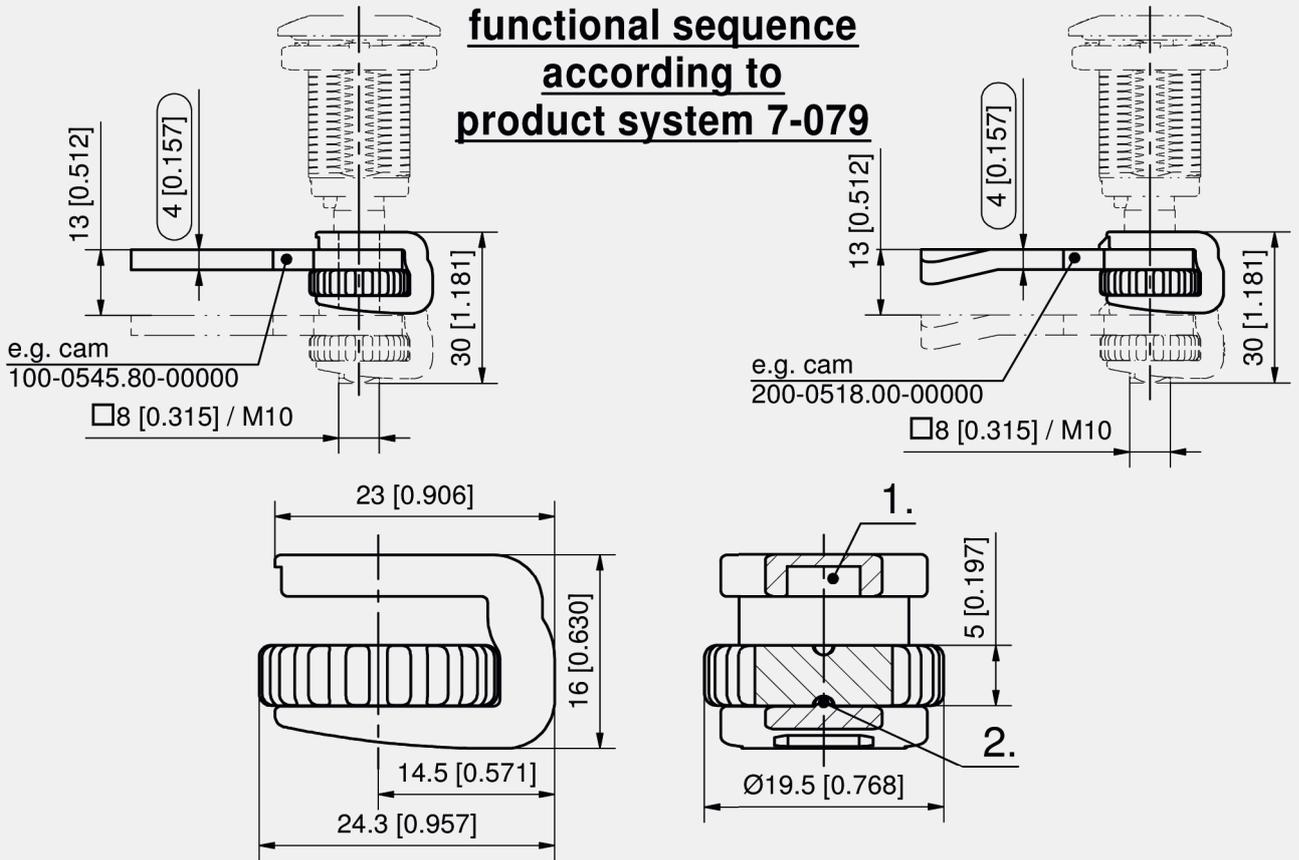
Catch: PA, black

Stop Washer: zinc die, zinc plated

**Note**

1. = Recess for cams with stop
2. = Detent (6x)

**functional sequence according to product system 7-079**



Accessories Cams

| Part Number       | Surface     | Material stop washer |
|-------------------|-------------|----------------------|
| 248-9901.00-00000 | zinc plated | zinc die             |

Grounding clip for rod latch system and bearing plate.

**Features**

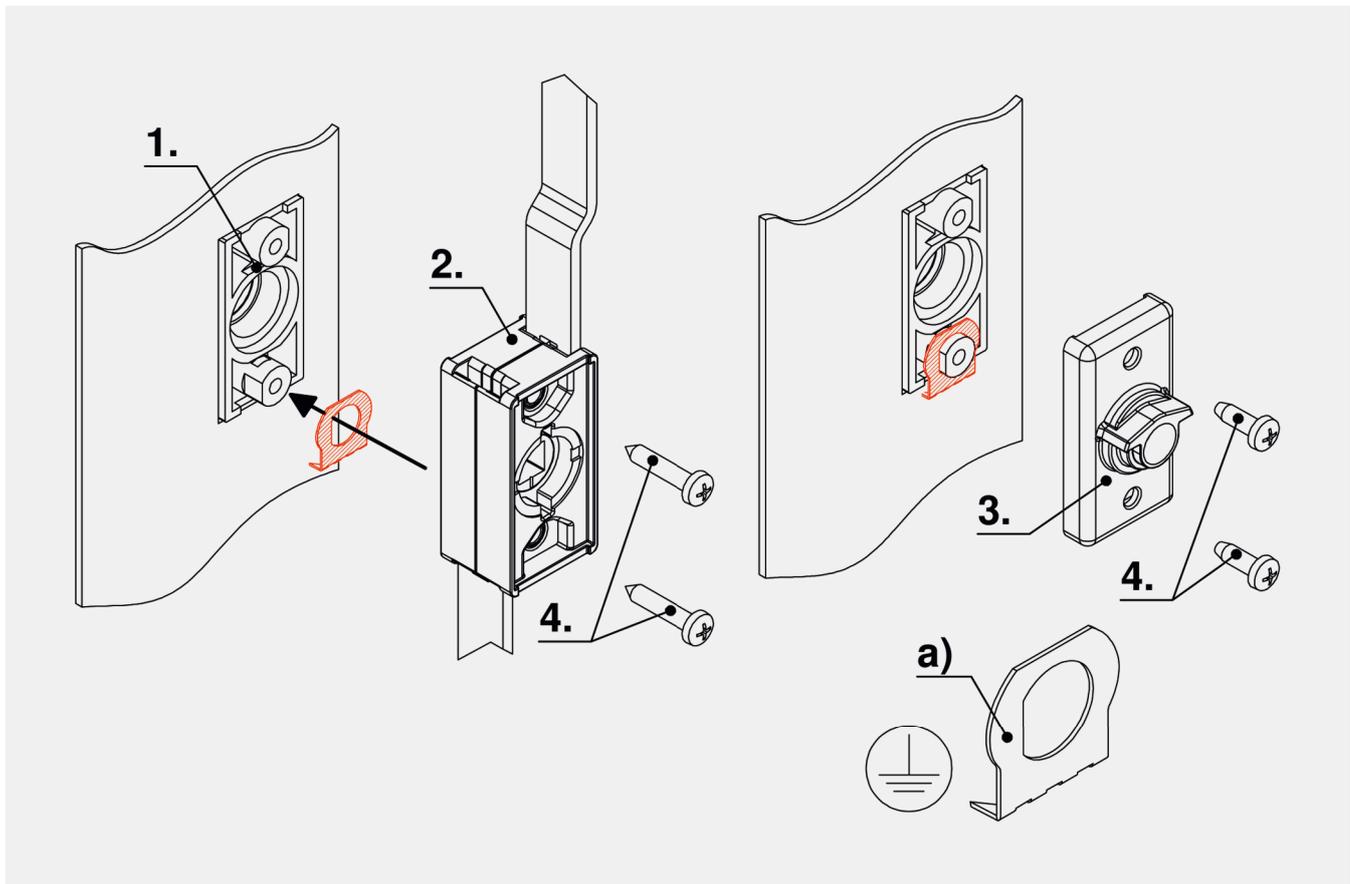
- Tested by the VDE testing and certification Institute in Offenbach.
- Passed all tests according to DIN (VDE 0100 part 540): 2012-06 as well as DIN EN 61439-1 (VDE 0660 part 600): 2012-06 section 8.4.3.2.2 and 10.5.2.
- Anodised and powder coated (epoxy and polyester) panels were tested with a thickness of up to 240µm.

**Material and surface**

**Grounding clip:** stainless steel AISI 301

**Note**

- 1. = Back of the latching devices
- 2. = Flat rod latch
- 3. = Bearing, Cam / 3-point cam
- 4. = Clamping torque 2 Nm



**Grounding**

|    | Part Number       | Type           | Grounding |
|----|-------------------|----------------|-----------|
| a) | 208-1206.93-00000 | Grounding clip | Yes       |

- A**
- R**
- L**
- RoHS**
- WEEE**
- B**
- C**
- 
- IP 65**



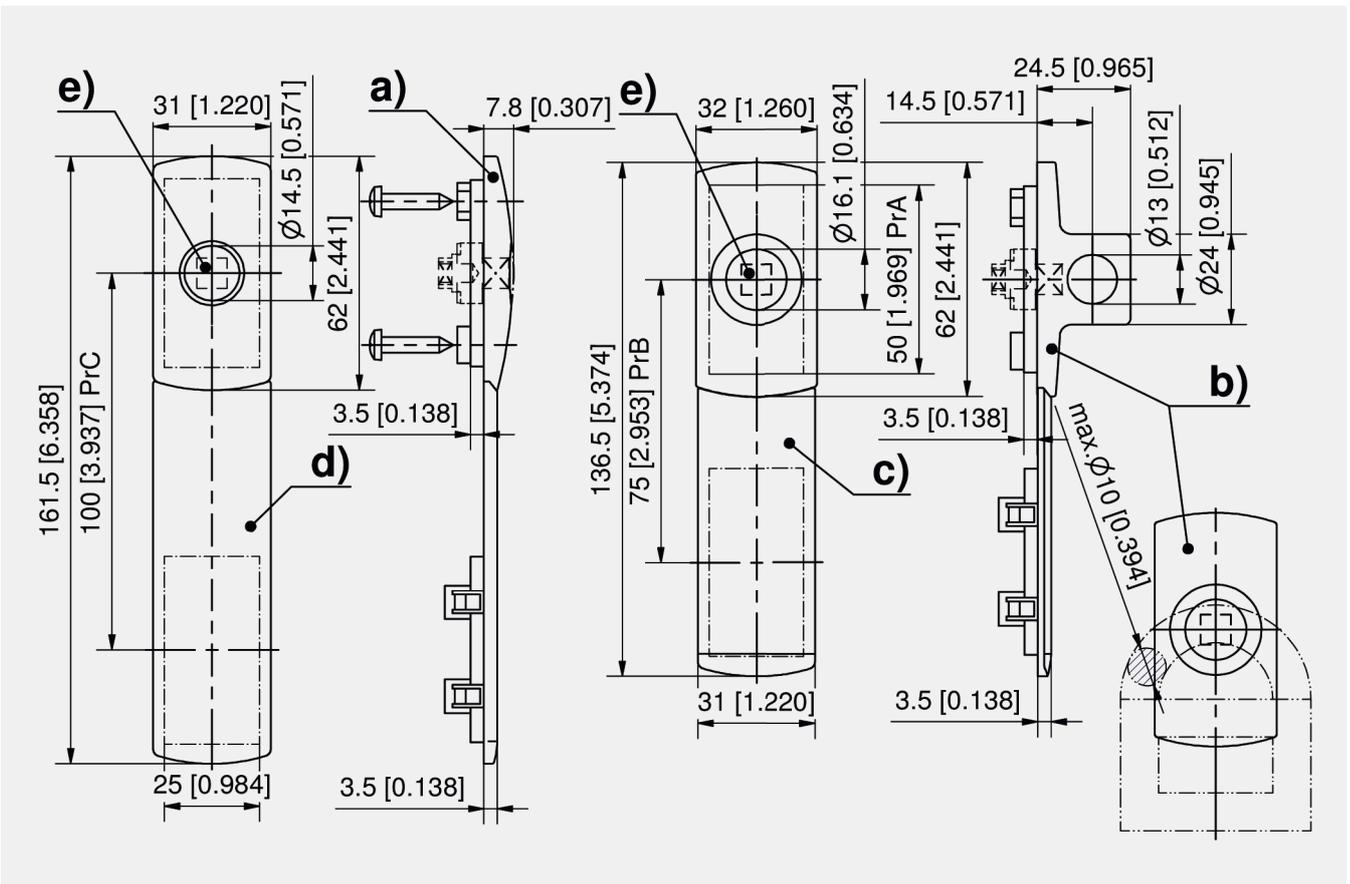
Polyamide - insert version. Zinc die cast - insert and padlock version.

**Features**

- Compatible with the rod latch system with installation cutout A, B and C.
- By using the extension pieces the escutcheon PrA can also be used for installation cutouts PrB and PrC.
- IP65 according to DIN EN 60529.
- The escutcheon is secured into the cutout with the rod latch.
- b) Maximum diameter of the shackle - Ø 10 mm/0.394inch.

**Material and surface**

- a) **Escutcheon:** PA, black
- b) **Escutcheon for padlock:** zinc die, black



**Escutcheon**

|    | Part Number       | Type                   | Material | Surface | Fastening |
|----|-------------------|------------------------|----------|---------|-----------|
| a) | 208-9305.00-00000 | Escutcheon             | PA       | black   | screw-on  |
| b) | 208-9312.00-00000 | Escutcheon for padlock | zinc die | black   | screw-on  |

|   |                   |                            |
|---|-------------------|----------------------------|
| * | 208-0523.03-00000 | Extension, short           |
|   | 208-0522.03-00000 | Extension, long            |
|   | 208-1804.00-00000 | Sealing kit for escutcheon |

| + | Function extension | Part Number |
|---|--------------------|-------------|
|   | Grounding Clip     | 3-011       |

### Features

- Cutout-cover c) PrA for doors / double doors with same cutout.
- Extensions a) and b) for cutout PrB and PrC.
- For sheet thicknesses from 1.5 to 3 mm.
- IP54 according to DIN EN 60529 by: O-Ring 208-1804.
- Tool-less installation.

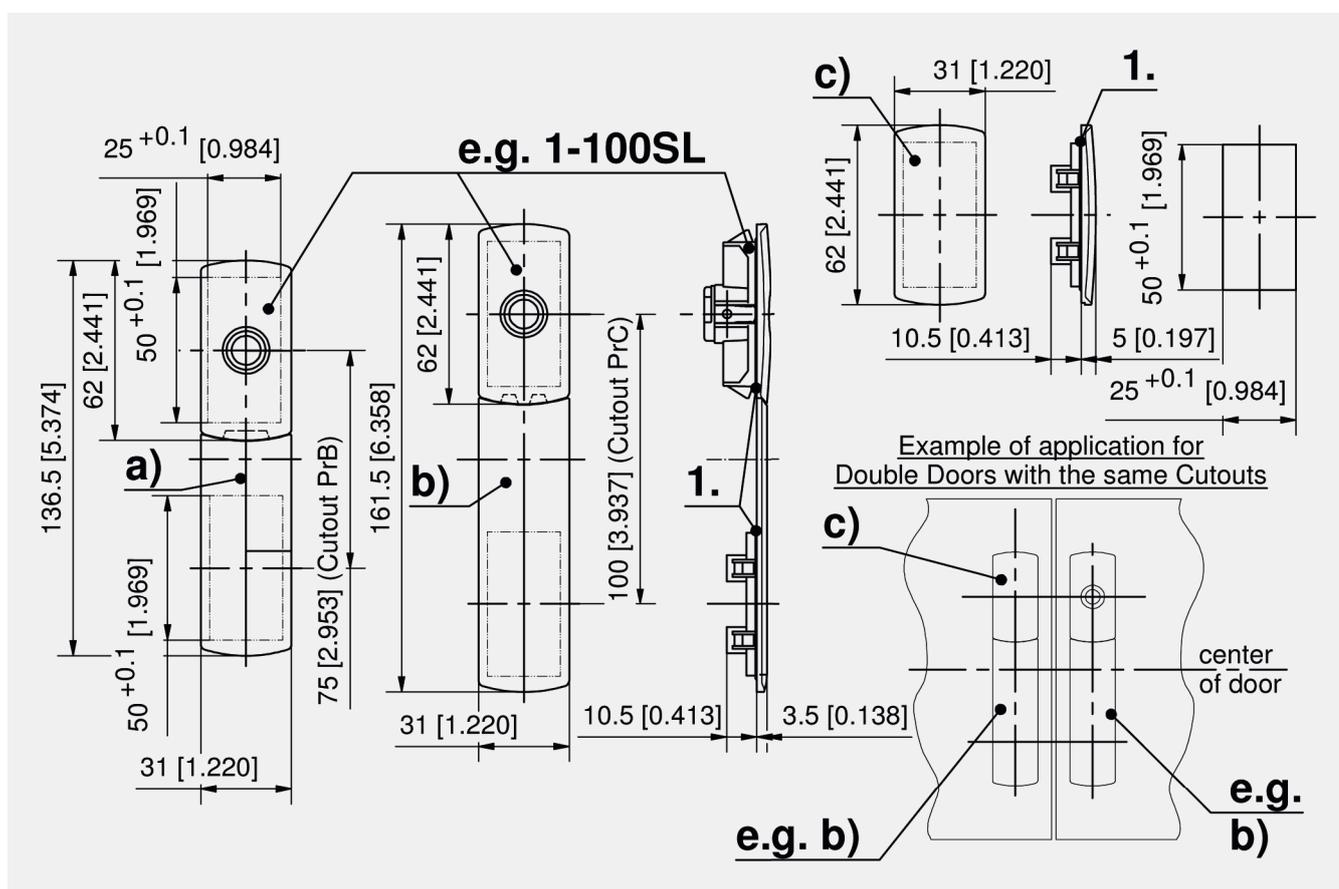
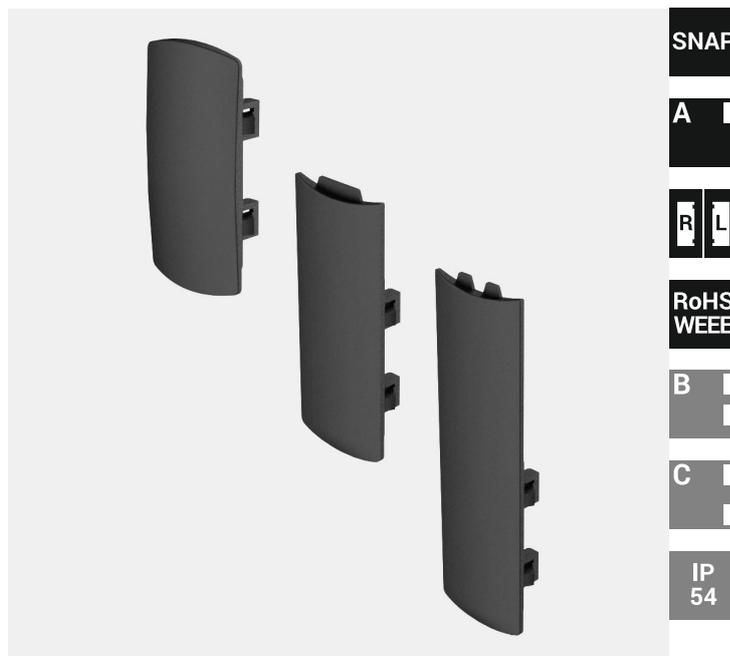
### Material and surface

**Cutout-cover and escutcheon:** PA, black

**O-ring:** NBR, black

### Note

1. = Sealing kit



### Cutout-cover

|    | Part Number       | Type             | Material | Surface | Fastening |
|----|-------------------|------------------|----------|---------|-----------|
| b) | 208-0522.03-00000 | Extension, long  | PA       | black   | tool-less |
| a) | 208-0523.03-00000 | Extension, short | PA       | black   | tool-less |
| c) | 208-0526.52-00000 | Cutout-cover     | PA       | black   | tool-less |

|  | Function extension         | Part Number       |
|--|----------------------------|-------------------|
|  | Sealing kit for escutcheon | 208-1804.00-00000 |

base

SNAP

C

R L

UL

RoHS WEEE



IP 65



**Features**

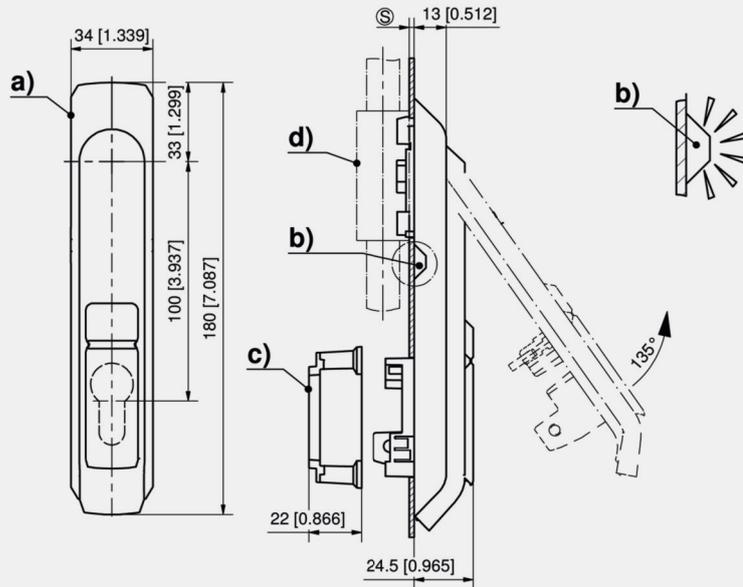
- Tool-less assembly.
- Tool-less installation, self-locking (clip-in) in sheet metal with thickness of 1.5 or 2.0 mm.
- Independent of panel thickness up to 4 mm.
- Closing with slam latch.
- Handle with lifting spring.
- Tool-less replacement of the cylinder cover.
- RH / LH application.
- IP65 according to DIN EN 60529 by optional sealing kit 307-9153.00-00000.

**Material and surface**

- Handle, Dish, cap:** PA, black
- Cylinder dustcover:** PA, black
- Shaft, slam lock:** Grivory
- Spring:** steel
- O-ring:** NBR

**Note**

- b) LED module retrofittable.
- For profile-cylinder with closing position 6 o'clock



Swinghandle PA, black for profile-cylinder

|    | Part Number       | Latching type | Installation type | Cylinder cover |
|----|-------------------|---------------|-------------------|----------------|
| a) | 307-9101.00-00000 | PHZ 40 mm     | tool-less         | PA, black      |

Swinghandle PA, black, slam latch

|    | Part Number       | Latching type | Installation type | Cylinder cover |
|----|-------------------|---------------|-------------------|----------------|
| a) | 307-9103.00-00000 | slam latch    | tool-less         | PA, black      |

|   |                   |   |  |  |
|---|-------------------|---|--|--|
| * | 307-9154.00-00000 | Square adapter for connection to PS 3-130, 3-170 and 3-132.02 |  |  |
|   | 307-9151.00-00000 | LED Module for version profile-cylinder                       |  |  |
|   | 307-9152.00-00000 | LED Module for version slam latch                             |  |  |
|   | 211-9001.00-00000 | Profile-cylinder, keyed different                             |  |  |
|   | 211-9002.00-00000 | Profile-cylinder, keyed alike                                 |  |  |

|   | Function extension | Part Number       |
|---|--------------------|-------------------|
| + | Sealing kit+Cap    | 307-9153.00-00000 |

LED module visualises the locking position and regular red flashing indicates open position.

**Features**

- Tool-less assembly.
- Tool-less installation, self-locking (clip-in) in sheet metal with thickness of 1.5 or 2.0 mm.
- Independent of panel thickness up to 4 mm.
- Closing with slam latch.
- Handle with lifting spring.
- Tool-less replacement of the cylinder cover.
- RH/ LH application.
- IP65 according to DIN EN 60529 by optional sealing kit 307-9153.00-00000.

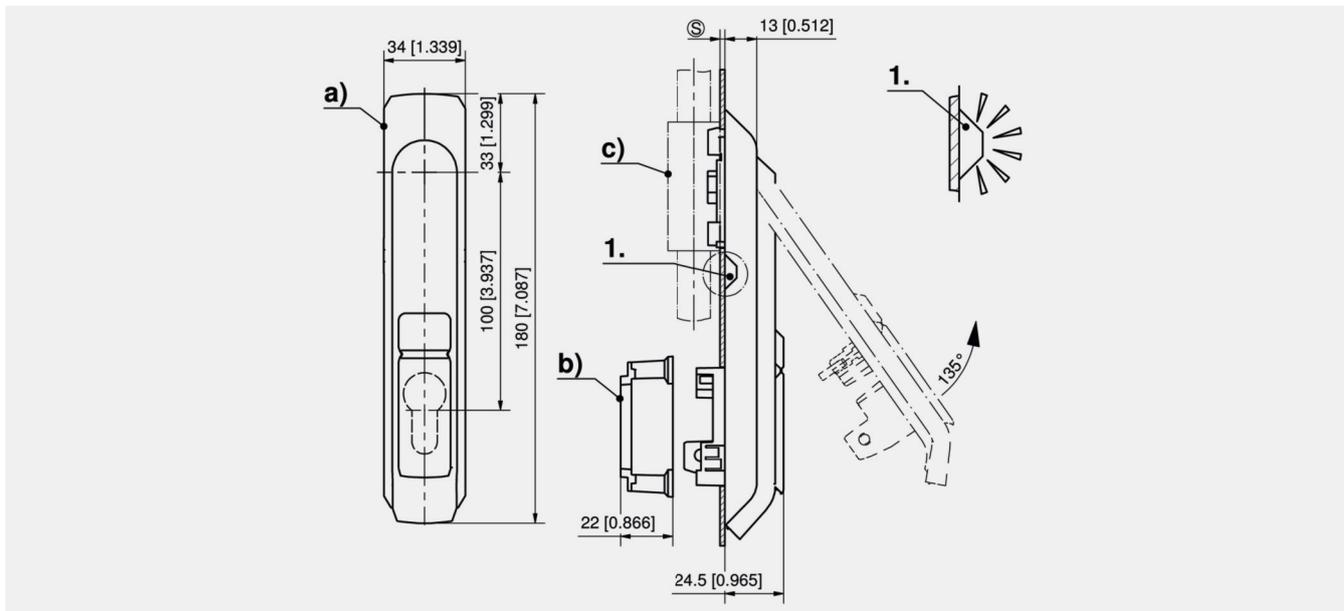
**Material and surface**

- Handle, dish, cap:** PA, black
- Cylinder dustcover:** PA, black
- Shaft, slam lock:** Grivory
- LED carrier plate:** PMMA
- Spring:** steel
- O-ring:** NBR

**Note**

For profile-cylinder with closing position 6 o'clock.

- 1. = Flashing LED module.  
Battery CR2032 3V **not** included.



Swinghandle PA, black, for profile-cylinder with LED module

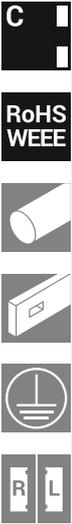
|    | Part Number       | Latching type | Installation type | Cylinder cover |
|----|-------------------|---------------|-------------------|----------------|
| a) | 307-9105.00-00000 | PHZ 40 mm     | tool-less         | PA, black      |

Swinghandle PA, black, slam latch with LED module

|    | Part Number       | Latching type | Installation type | Cylinder cover |
|----|-------------------|---------------|-------------------|----------------|
| a) | 307-9106.00-00000 | slam latch    | tool-less         | PA, black      |

|   |                   |   |  |  |
|---|-------------------|---|--|--|
| ✳ | 307-9154.00-00000 | Square adapter for connection to PS 3-130, 3-170 and 3-132.02 |  |  |
|   | 211-9001.00-00000 | Profile-cylinder, keyed different                             |  |  |
|   | 211-9002.00-00000 | Profile-cylinder, keyed alike                                 |  |  |

|   | Function extension | Part Number       |
|---|--------------------|-------------------|
| + | Sealing kit+Cap    | 307-9153.00-00000 |



Rod Latch for installation within the sealed area, with compression.

**Features**

- Compression 4 mm.
- Single or multi-point latching by using of additional latching devices.
- The connecting rods between the latching devices can be fixed easily in clamps.
- For round rods Ø8 mm or flat rods 3 x 14 mm.
- Oblong hole allows tolerance compensation.
- RH and LH version.

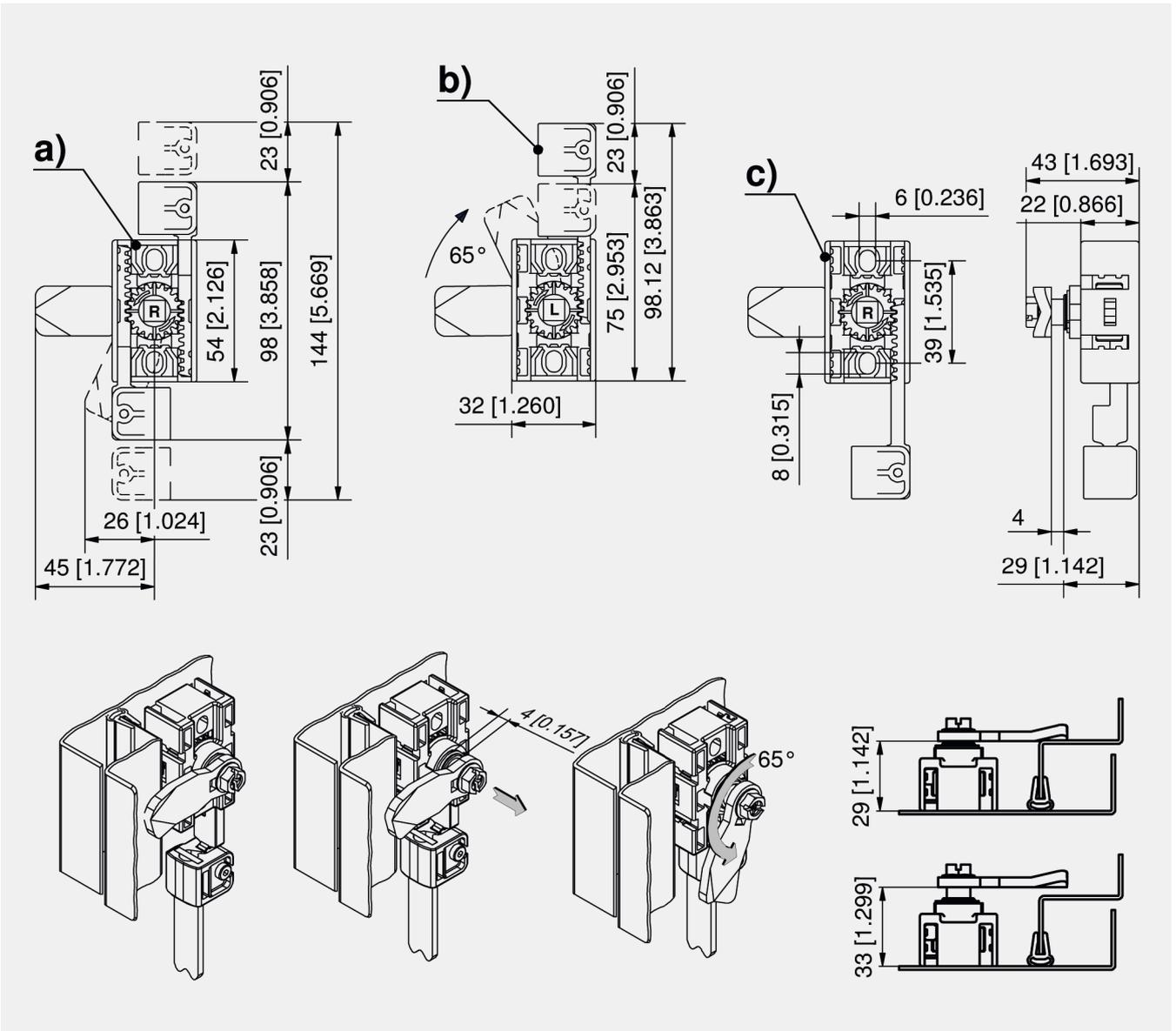
**Material and surface**

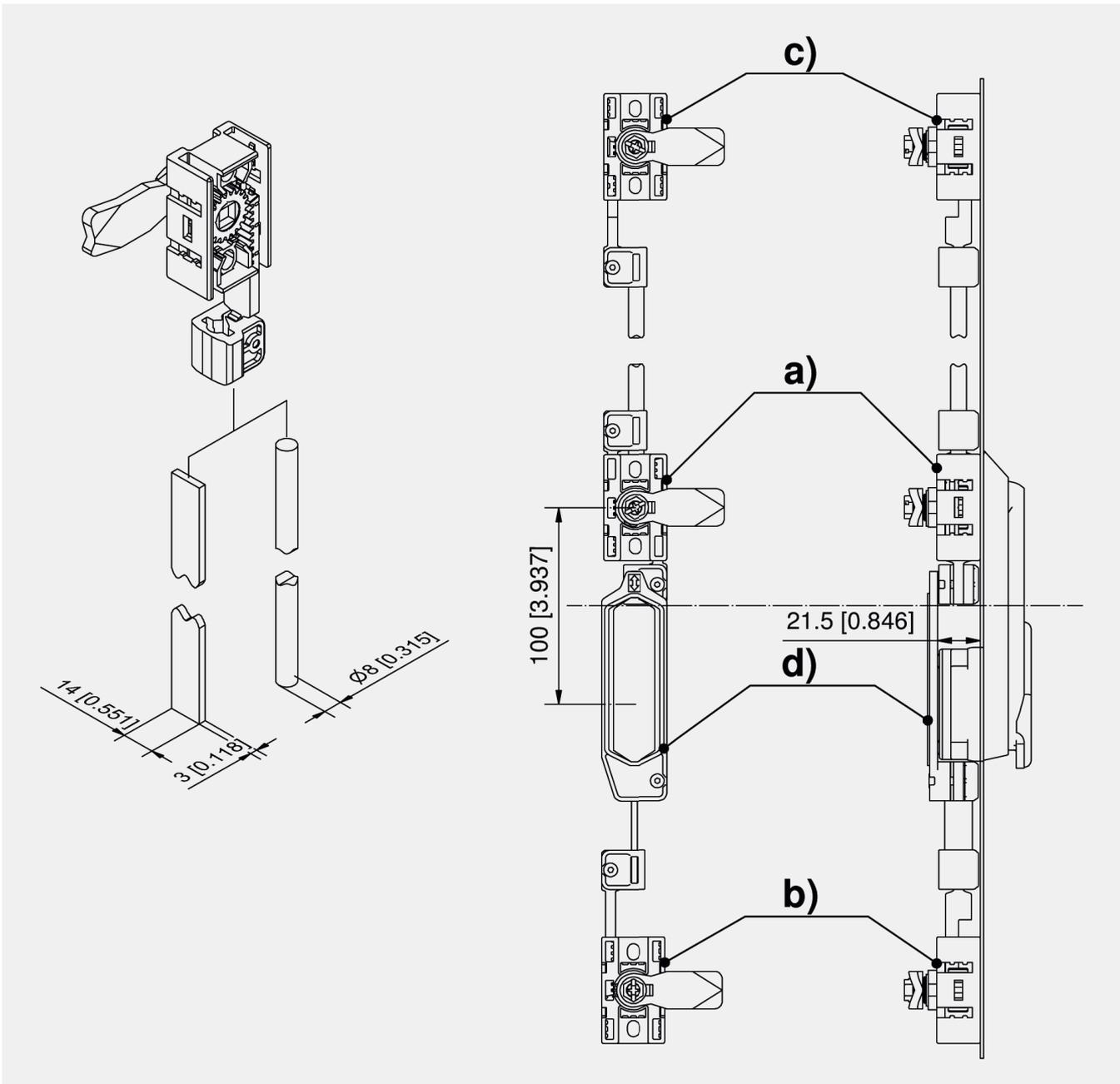
Housing, rods, clamps, pinion: zinc die

**Note**

**Closing process:**

1. A 90° turn of the Swinghandle brings the cam into the locked position.
2. With another 45° turn the cam is pressed by 4 mm against the clamping surface.





### Compression Rod Latch, 2 rods

|    | Part Number       | Version | Stroke | Installation type |
|----|-------------------|---------|--------|-------------------|
| a) | 208-9076.00-00000 | LH      | 23     | screw-on          |
| a) | 208-9077.00-00000 | RH      | 23     | screw-on          |

### Compression Rod Latch, 1 rod

|    | Part Number       | Version | Stroke | Installation type |
|----|-------------------|---------|--------|-------------------|
| b) | 208-9078.00-00000 | LH      | 23     | screw-on          |
| c) | 208-9079.00-00000 | RH      | 23     | screw-on          |

|   |       |   |
|---|-------|---|
| * | 3-201 | Rod Latch Adapter for Compression Rod Latch |
|   | 3-209 | Rods for Compression Rod Latch              |
|   | 3-210 | Swinghandle for Compression Rod Latch       |

|   | Function extension | Part Number       |
|---|--------------------|-------------------|
| + | Grounding clip     | 208-1206.93-00000 |

RoHS  
WEEE



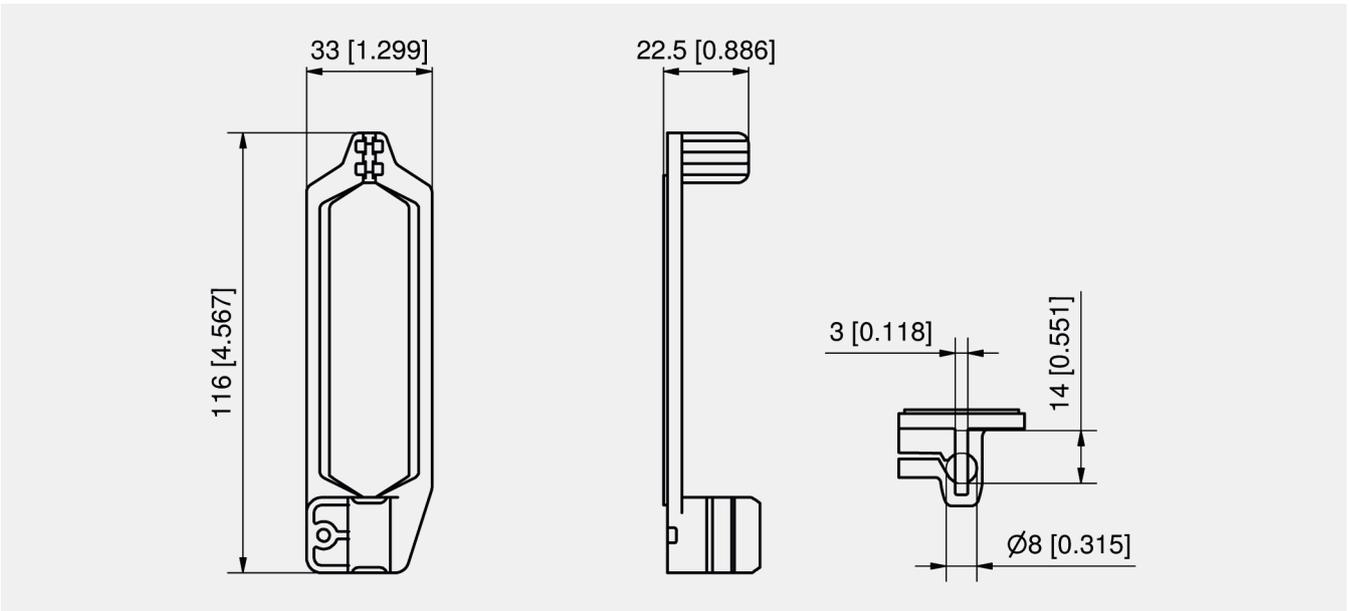
**Features**

- Rod latch adapter suitable for Compression Rod Latch see product system 3-200.

**Material and surface**

**Rod latch adapter:** zinc die, untreated

**Screw:** steel, zinc plated



Accessories for Compression Rod Latch

| Part Number       | Type              | Version |
|-------------------|-------------------|---------|
| 308-9005.00-00000 | Rod Latch adapter | RS / FS |

### Features

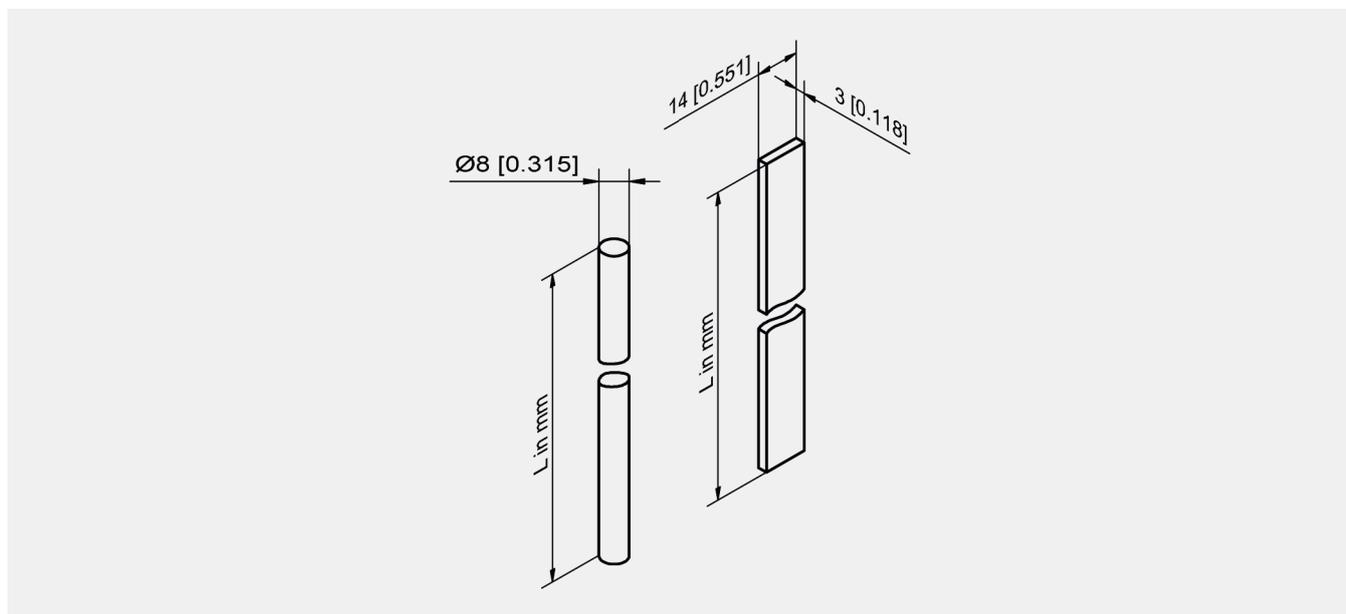
- Round and flat rods suitable for Compression Rod Latch see product system 3-200.

### Material and surface

Round and flat rods: steel, zinc plated



RoHS  
WEEE



### Round rods for Compression Rod Latch

| Part Number       | Type      | Rod diameter Ø | Length   |
|-------------------|-----------|----------------|----------|
| 201-0212.00-00293 | Round rod | 8              | 292.5 mm |
| 201-0212.00-00493 | Round rod | 8              | 492.5 mm |
| 201-0212.00-00593 | Round rod | 8              | 592.5 mm |
| 201-0212.00-00693 | Round rod | 8              | 692.5 mm |

### Flat rods for Compression Rod Latch

| Part Number       | Type     | Rods dimension WxH | Length |
|-------------------|----------|--------------------|--------|
| 108-0916.15-00300 | Flat rod | 14 x 3 mm          | 300 mm |
| 108-0916.15-00400 | Flat rod | 14 x 3 mm          | 400 mm |
| 108-0916.15-00500 | Flat rod | 14 x 3 mm          | 500 mm |
| 108-0916.15-00600 | Flat rod | 14 x 3 mm          | 600 mm |
| 108-0916.15-00700 | Flat rod | 14 x 3 mm          | 700 mm |



Swinghandle for Compression Rod Latch Product System 3-200.

**Features**

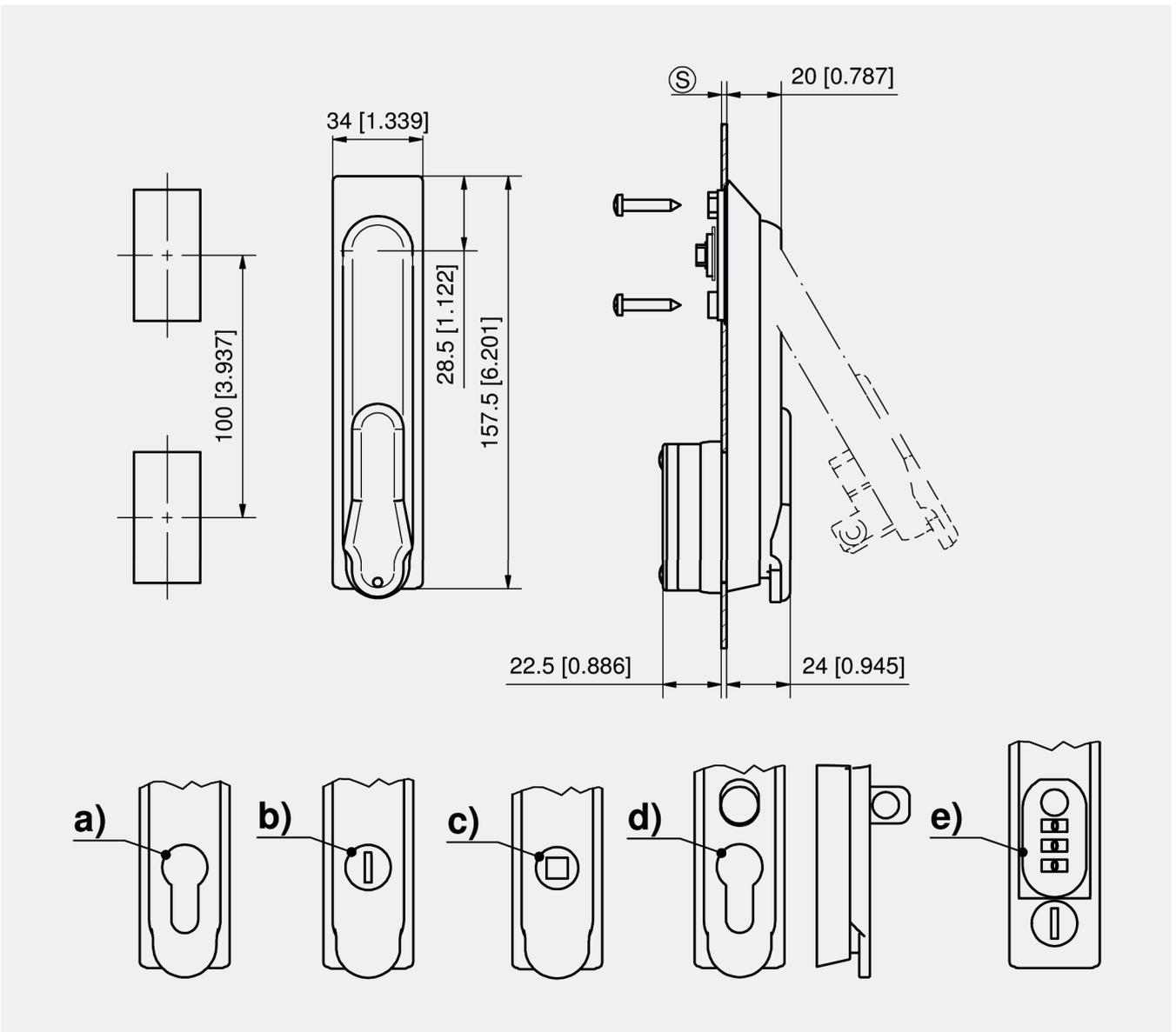
- Swinghandle for profile-cylinder to DIN 18252, with cylinder, for insert, with padlock eye or combination lock.
- Inserts must be ordered separately. Locking stub is included in handle assembly.
- Cutout 50 x 25 mm version PrC.
- IP65 according to DIN EN 60529.
- RH / LH application.

**Material and surface**

- Swinghandle, dish and cylinder dustcover:** zinc die, black or PA, black
- Shaft:** brass, untreated
- Cap:** PA, black
- O-ring and cap sealing:** NBR

**Note**

The Swinghandles listed under a), b), and c) can be retrofitted with a sliding cap see Product System 2-090.01.



### Swinghandle for profile-cylinder

|    | Part Number       | Latching type | Material handle | Material dish   | Dish            | Cylinder dustcover | Sealable | Installation type |
|----|-------------------|---------------|-----------------|-----------------|-----------------|--------------------|----------|-------------------|
| a) | 207-9201.00-10000 | PHZ 40 mm     | PA, black       | PA, black       | with Cap (IP65) |                    |          | screw-on          |
| a) | 207-9202.00-10000 | PHZ 40 mm     | PA, black       | PA, black       | with Cap (IP65) | Yes                | Yes      | screw-on          |
| a) | 107-9209.00-10000 | PHZ 40 mm     | zinc die. black | zinc die. black | with Cap (IP65) | Yes                | Yes      | screw-on          |

### Swinghandle with cylinder barrel

|    | Part Number       | Latching type          | Material handle | Material dish | Dish            | Installation type |
|----|-------------------|------------------------|-----------------|---------------|-----------------|-------------------|
| b) | 207-9262.00-10000 | keyed alike DIRAK 1333 | PA, black       | PA, black     | with Cap (IP65) | screw-on          |

### Swinghandle for insert

|    | Part Number       | Latching type | Material handle | Material dish | Dish            | Installation type |
|----|-------------------|---------------|-----------------|---------------|-----------------|-------------------|
| c) | 207-9271.00-10000 | Insert        | PA, black       | PA, black     | with Cap (IP65) | screw-on          |

### Swinghandle for profile-cylinder with padlock eye

|    | Part Number       | Latching type | Padlock eye | Material handle | Material dish | Dish            | Installation type |
|----|-------------------|---------------|-------------|-----------------|---------------|-----------------|-------------------|
| d) | 207-9208.00-10000 | PHZ 40 mm     | yes         | zinc die. black | PA, black     | with Cap (IP65) | screw-on          |

### Swinghandle with combination lock and cylinder

|    | Part Number       | Latching type          | Material handle | Material dish | Dish            | Installation type |
|----|-------------------|------------------------|-----------------|---------------|-----------------|-------------------|
| e) | 107-9274.00-10000 | keyed alike DIRAK 1333 | PA, black       | PA, black     | with Cap (IP65) | screw-on          |



3-209

Rods for Compression Rod Latch



Assembly options

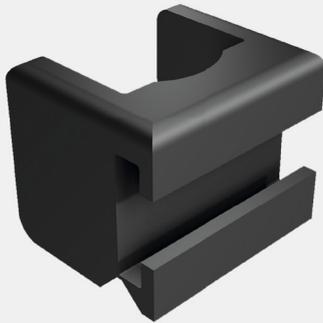
Part Number

Assembling of inserts / profile-cylinder

207-0016.00-00000



RoHS  
WEEE

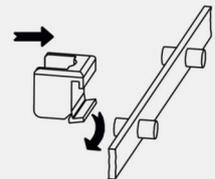
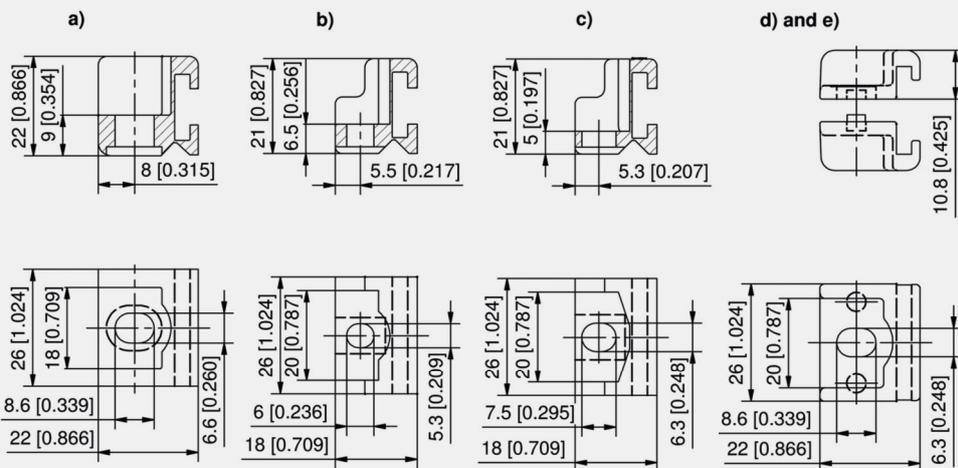


**Features**

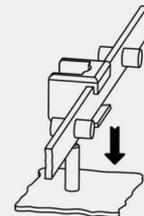
- For flat rods 12 x 3 mm.
- a, b and c): Rod guide with living hinge for pre-assembly onto the flat rod.
- b and c): Rod guide also for OFFSET-DUO SYSTEM see product system 3-310.
- d and e): Rod guide two halves.

**Material and surface**

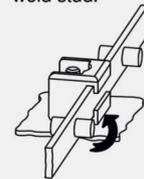
- Flat rod guide:**
- a, b and c): PA, black
  - d): stainless steel AISI 316
  - e): zinc die, black



1. Open the rod guide's living hinge downwards and position over the flat rod.



2. Assemble the flat rod guide onto the weld stud.



3. By tightening the nut the living hinge automatically and securely attaches the flat rod.

**Rod guide**

|    | Part Number       | Fastening | Material        |
|----|-------------------|-----------|-----------------|
| a) | 208-1501.03-00000 | M6        | PA              |
| b) | 208-1509.03-00000 | M5        | PA              |
| c) | 208-1517.03-00000 | M6        | PA              |
| d) | 208-9790.00-00000 | M6        | stainless steel |
| e) | 208-9791.00-00000 | M6        | zinc die        |

Dual Hook for flat rods with dual rollers.

**Features**

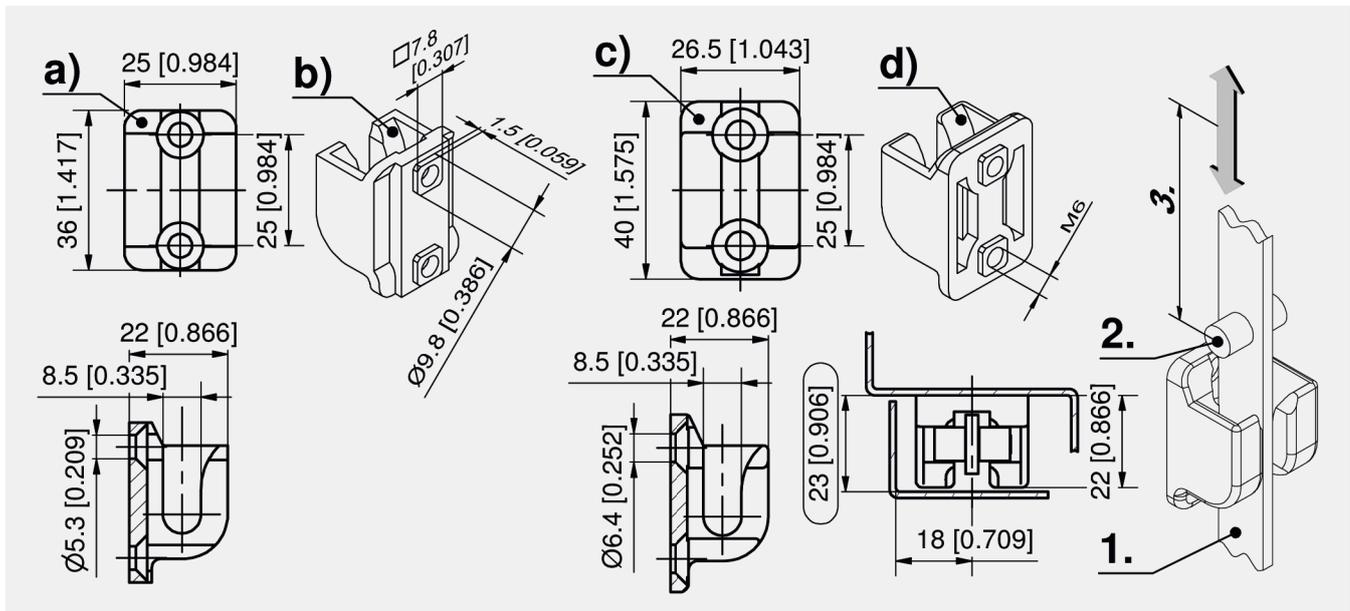
- a) and c) Water- and dust-tight according to IP65 DIN EN 60529 with flat external seal 208-1803.

**Material and surface**

- a), b) **Dual hook:** PA, black
- c), d) **Dual hook:** zinc die, zinc plated

**Note**

- 1. = Flat rod
- 2. = Dual rollers
- 3. = Stroke 24 mm



**Dual hook**

|    | Part Number       | Material | Installation type | Version                               |
|----|-------------------|----------|-------------------|---------------------------------------|
| a) | 208-1446.50-00000 | PA       | screw-on          | with countersunk for M5               |
| b) | 208-1447.50-00000 | PA       | screw-on          | with threaded stubs for M5            |
| d) | 208-1401.00-00000 | zinc die | screw-on          | with thread and threaded stubs for M6 |
| c) | 208-1402.00-00000 | zinc die | screw-on          | with countersunk for M6               |

|   |       |                                     |
|---|-------|-------------------------------------|
| ✳ | 6-041 | Countersunk screws and Hexagon nuts |
|   | 6-040 |                                     |

|   | Function extension | Part Number       |
|---|--------------------|-------------------|
| + | Flat external seal | 208-1803.00-00000 |



**Features**

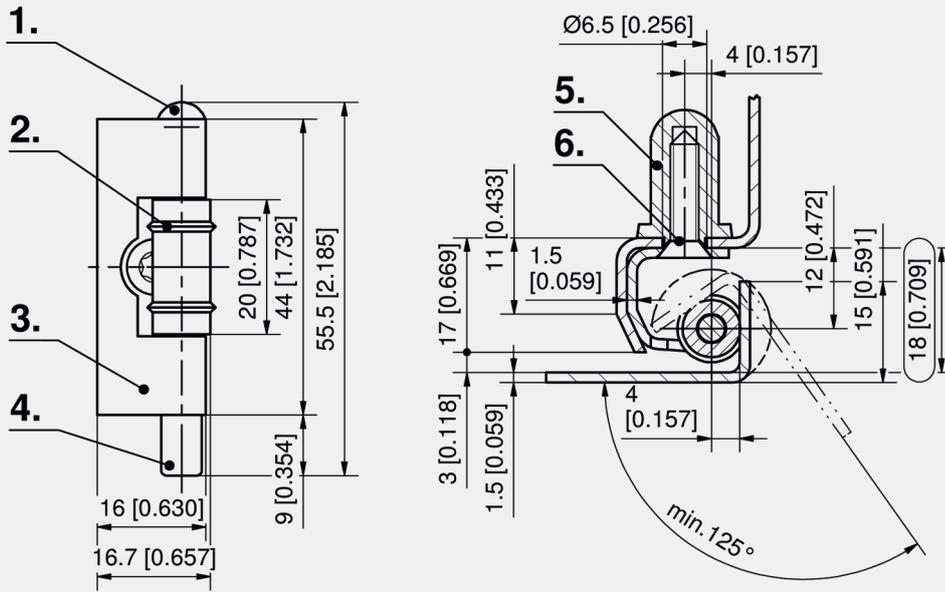
- For surface mounted doors.
- Hinge concealed.
- Door bending variable 16–18 mm
- RH / LH application.
- 125° Opening angle.
- Hinge pin secured by busing.
- Fitting hardware included.

**Material and surface**

- Frame-part and hinge pin:** steel, zinc plated
- Weld-on roll:** steel, untreated
- Fitting block:** PA, black
- Securing bushing:** PE-LD black
- Self-tapping screw:** stainless steel

**Note**

- 1 = Hinge Pin
- 2 = Weld-on roll
- 3 = Frame-part
- 4 = Securing bushing
- 5 = Fitting block PA
- 6 = Self-tapping screw



Concealed Hinge

| Part Number       | Version                                     | Material Pin       | Installation type |
|-------------------|---|--------------------|-------------------|
| 216-9035.00-00000 | Screw T-20 ISO 14586 Form C 4.2 x 19 mm     | steel, zinc plated | screw- / weld-on  |
| 216-9015.00-00000 | Screw Philips DIN 7982 ISO 7050 4.2 x 19 mm | steel, zinc plated | screw- / weld-on  |

### Features

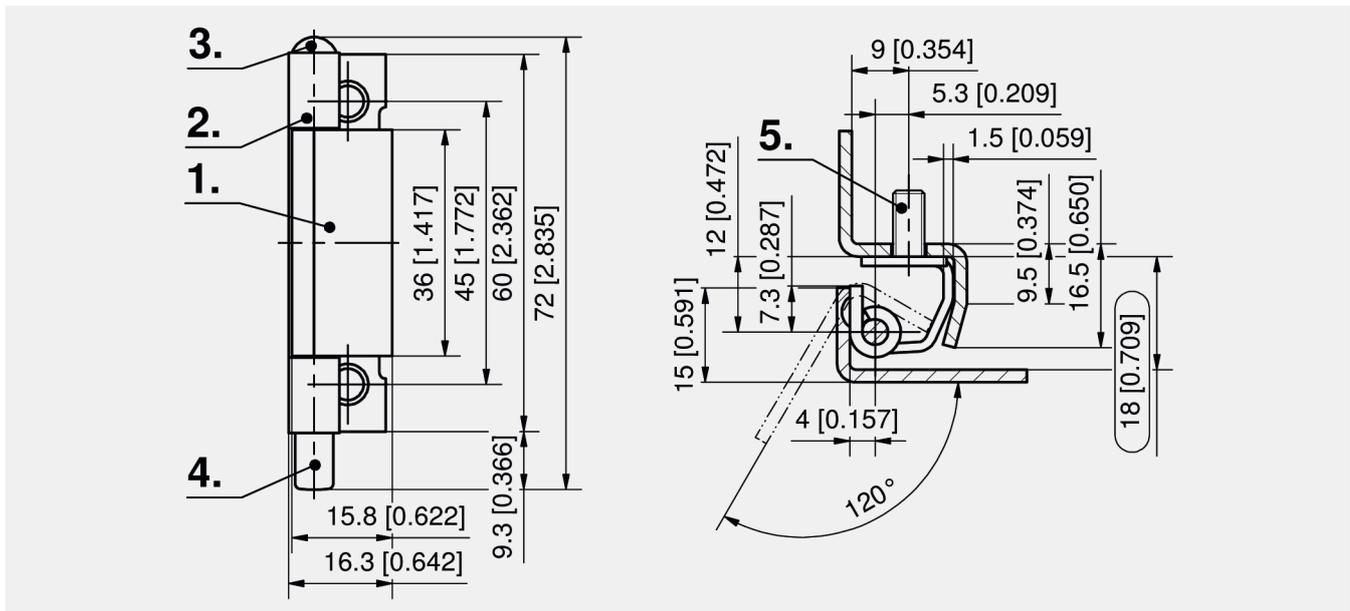
- For surface mounted doors.
- Hinge concealed.
- Bending 18 mm.
- RH / LH application.
- 120° Opening angle.
- Hinge pin secured by bushing.
- Frame-part with force fitted stud M5 x 12.
- Door-part weld on with prepared welding spots

### Material and surface

- Frame-part:** steel, zinc plated
- Door-part:** steel untreated
- Pin:** stainless steel
- Securing bushing:** PE-LD black

### Note

1. = Frame-part
2. = Door-part
3. = Hinge pin
4. = Securing bushing
5. = Threaded Stud M5 x 12



### Concealed Hinge

| Part Number       | Material Pin    | Installation type |
|-------------------|-----------------|-------------------|
| 216-9032.00-00000 | stainless steel | screw- / weld-on  |

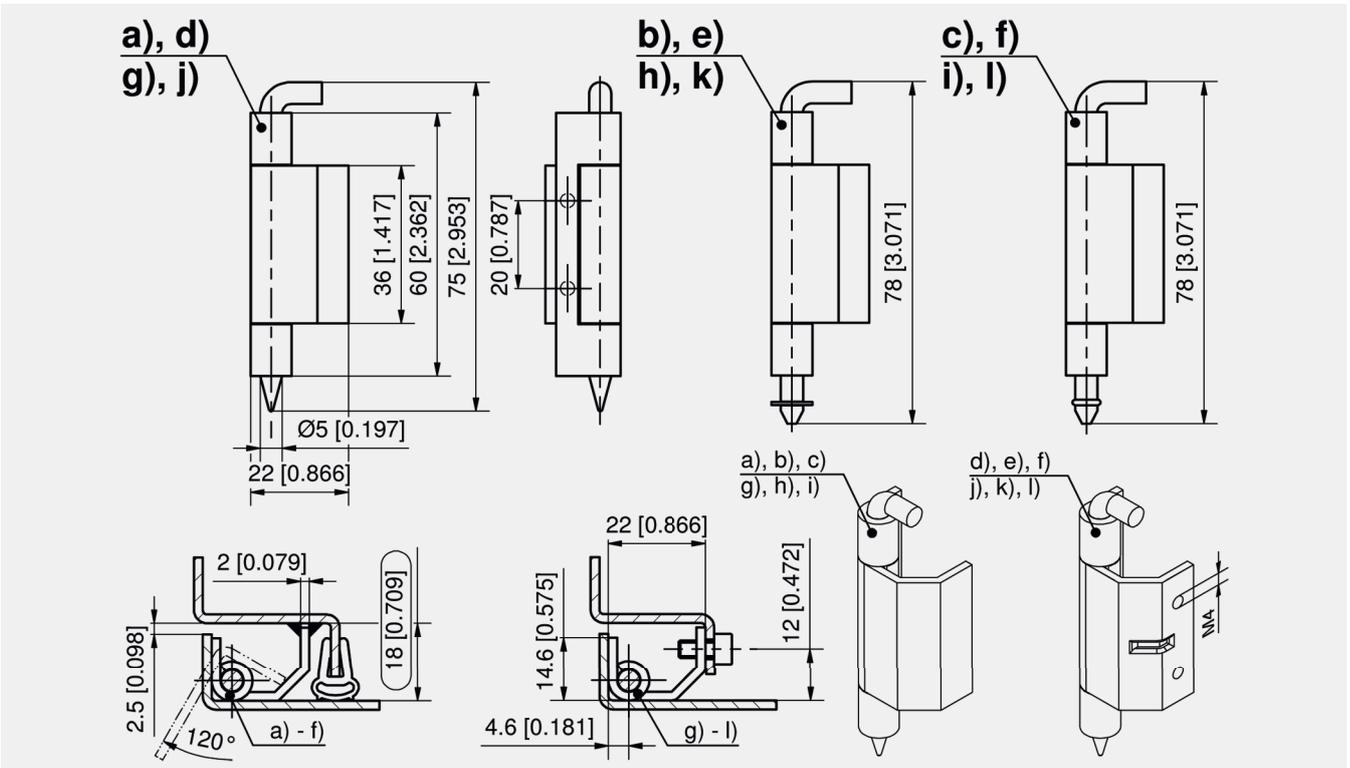


**Features**

- For surface mounted doors.
- Hinge concealed.
- Door bending 18 mm.
- RH / LH application.
- 120° Opening angle.
- Frame-part weld-on or screw-on.

**Material and surface**

- a), b), c), g), h) and i)
- Frame-part and door-part:** steel, untreated
- d), e), f), j), k) and l)
- Frame-part:** steel, zinc plated
- Door-part:** steel, untreated
- Pins:** steel, zinc plated
- O-ring:** NBR
- Retaining ring:** steel, zinc plated



**Concealed Hinge**

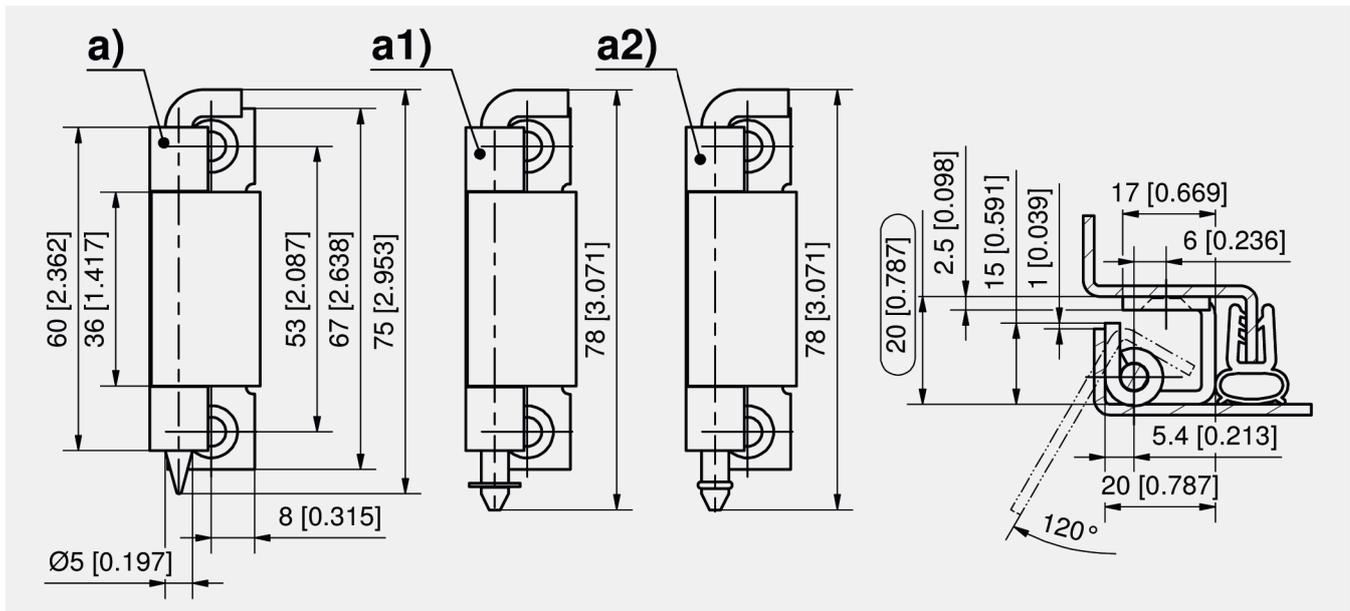
|    | Part Number       | Version    | Pin version                      | Installation type frame-part |
|----|-------------------|------------|----------------------------------|------------------------------|
| a) | 216-9001.00-00000 |            | without groove                   | weld-on                      |
| b) | 216-9009.00-00000 |            | with groove incl. retaining ring | weld-on                      |
| c) | 216-9009.00-00001 |            | with groove incl. o-ring         | weld-on                      |
| g) | 216-9002.00-00000 |            | without groove                   | screw-on                     |
| i) | 216-9010.00-00000 |            | with groove incl. retaining ring | screw-on                     |
| h) | 216-9010.00-00001 |            | with groove incl. o-ring         | screw-on                     |
| d) | 216-9020.00-00000 | reinforced | without groove                   | weld-on                      |
| e) | 216-9018.00-00000 | reinforced | with groove incl. retaining ring | weld-on                      |
| f) | 216-9018.00-00001 | reinforced | with groove incl. o-ring         | weld-on                      |
| j) | 216-9021.00-00000 | reinforced | without groove                   | screw-on                     |
| k) | 216-9019.00-00000 | reinforced | with groove incl. retaining ring | screw-on                     |
| l) | 216-9019.00-00001 | reinforced | with groove incl. o-ring         | screw-on                     |

**Features**

- For surface mounted doors.
- Hinge concealed.
- Door bending 18 mm.
- RH / LH application.
- 120° Opening angle.
- Fastening with counter-sunk screws M5.

**Material and surface**

- Frame-part:** steel, zinc plated
- Door-part:** steel, untreated
- Pin:** steel, zinc plated
- O-ring:** NBR



**Concealed Hinge**

|     | Part Number       | Pin version                      | Installation type |
|-----|-------------------|----------------------------------|-------------------|
| a)  | 216-9005.00-00000 | without groove                   | screw- / weld-on  |
| a2) | 216-9022.00-00000 | with groove incl. retaining ring | screw- / weld-on  |
| a1) | 216-9022.00-00001 | with groove incl. o-ring         | screw- / weld-on  |



**Features**

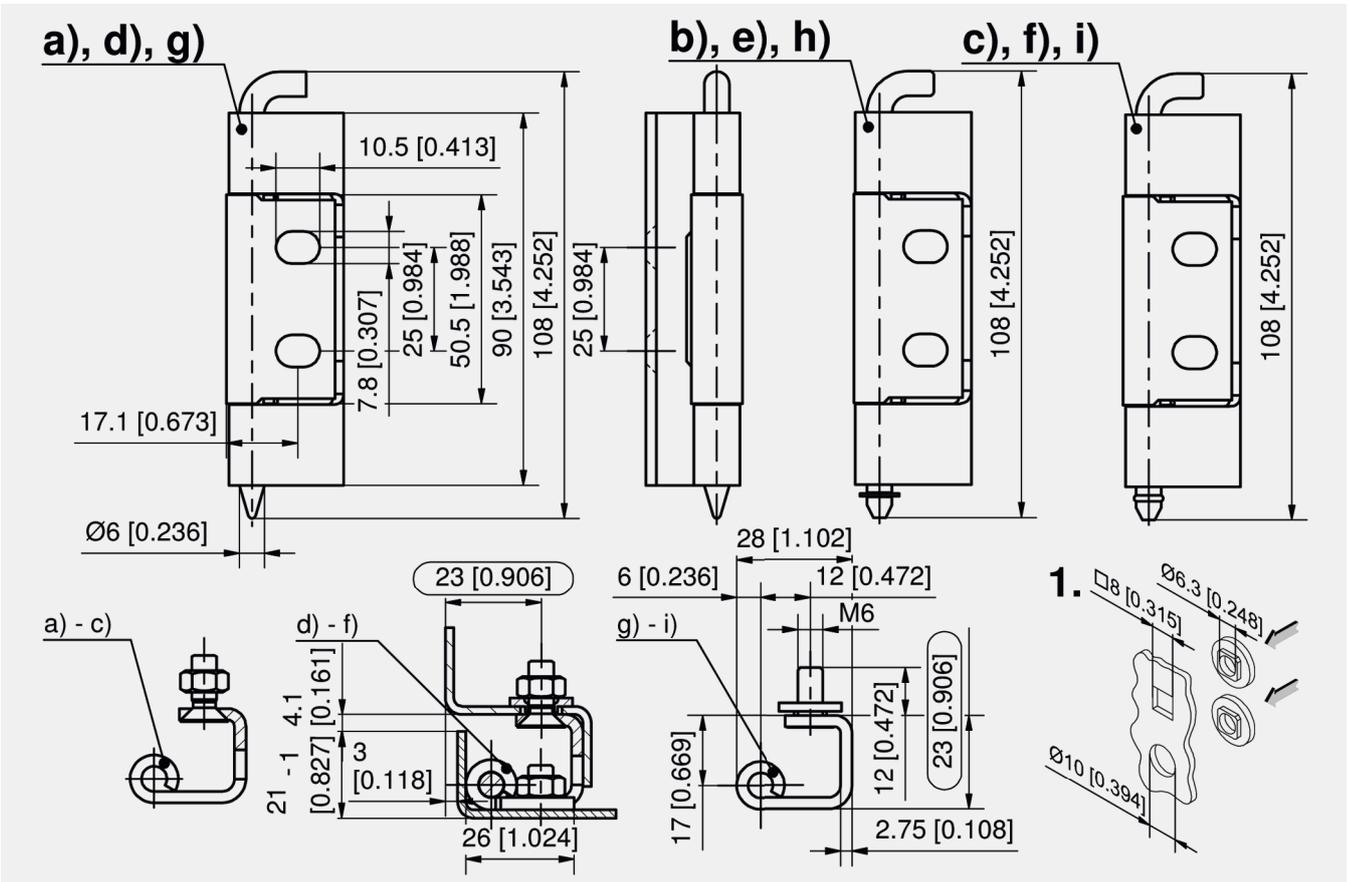
- For surface mounted doors.
- Hinge concealed.
- Door bending 23 mm.
- RH / LH application.
- 120° Opening angle.
- Door-part weld-on.

**Material and surface**

**Frame-part, pin and fastening washer:** steel, zinc plated  
**Door-part:** steel, untreated

**Note**

1. = Installation instruction for fastening washer.



**Concealed Hinge**

|    | Part Number       | Frame-part                           | Cutouts in the frame | Pin version                      |
|----|-------------------|--------------------------------------|----------------------|----------------------------------|
| a) | 243-9103.00-00000 | with countersunk holes for M6        | Ø6.3 or M6           | without groove                   |
| b) | 243-9104.00-00000 | with countersunk holes for M6        | Ø6.3 or M6           | with groove incl. retaining ring |
| c) | 243-9104.00-00001 | with countersunk holes for M6        | Ø6.3 or M6           | with groove incl. o-ring         |
| d) | 243-9101.00-00000 | with holes for M6 + fastening washer | □8 or Ø10            | without groove                   |
| e) | 243-9102.00-00000 | with holes for M6 + fastening washer | □8 or Ø10            | with groove incl. retaining ring |
| f) | 243-9102.00-00001 | with holes for M6 + fastening washer | □8 or Ø10            | with groove incl. o-ring         |
| g) | 243-9109.00-00000 | with studs M6 + fastening washer     | Ø6.3, □8, Ø10        | without groove                   |
| h) | 243-9110.00-00000 | with studs M6 + fastening washer     | Ø6.3, □8, Ø10        | with groove incl. retaining ring |
| i) | 243-9110.00-00001 | with studs M6 + fastening washer     | Ø6.3, □8, Ø10        | with groove incl. o-ring         |

### Features

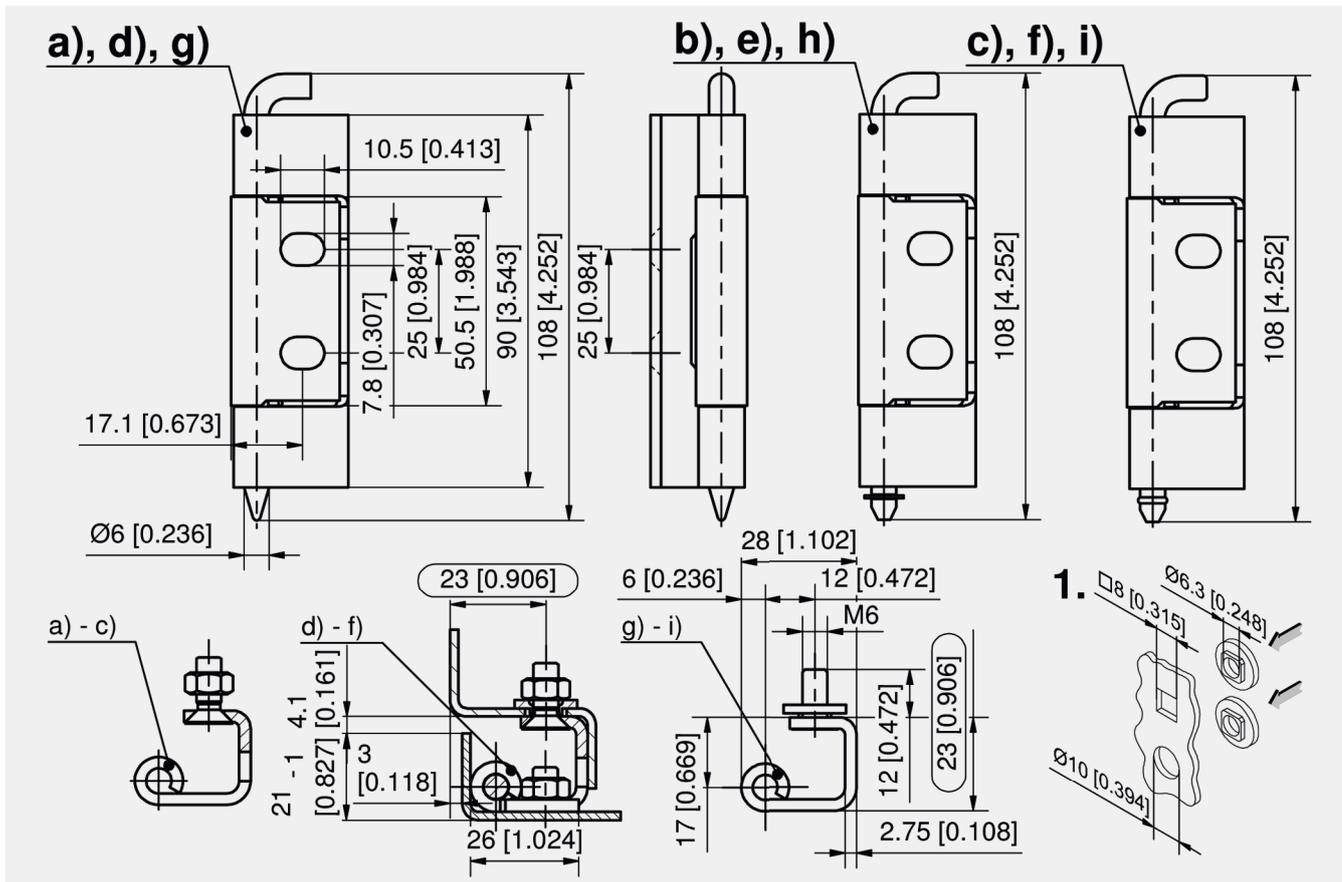
- For surface mounted doors.
- Hinge concealed.
- Door bending 23 mm.
- RH / LH application.
- 120° Opening angle.
- Door-part screw-on.

### Material and surface

**Frame-part, door-part, pin and fastening washer: steel, zinc plated**

### Note

1. = Installation instruction for fastening washer.



## Concealed Hinge

|    | Part Number       | Frame-part                           | Cutouts in the frame | Pin version                      |
|----|-------------------|--------------------------------------|----------------------|----------------------------------|
| a) | 243-9107.00-00000 | with countersunk holes for M6        | Ø6.3 or M6           | without groove                   |
| b) | 243-9108.00-00000 | with countersunk holes for M6        | Ø6.3 or M6           | with groove incl. retaining ring |
| c) | 243-9108.00-00001 | with countersunk holes for M6        | Ø6.3 or M6           | with groove incl. o-ring         |
| d) | 243-9105.00-00000 | with holes for M6 + fastening washer | □8 or Ø10            | without groove                   |
| e) | 243-9106.00-00000 | with holes for M6 + fastening washer | □8 or Ø10            | with groove incl. retaining ring |
| f) | 243-9106.00-00001 | with holes for M6 + fastening washer | □8 or Ø10            | with groove incl. o-ring         |
| g) | 243-9111.00-00000 | with studs M6 + fastening washer     | Ø6.3, □8, Ø10        | without groove                   |
| h) | 243-9112.00-00000 | with studs M6 + fastening washer     | Ø6.3, □8, Ø10        | with groove incl. retaining ring |
| i) | 243-9112.00-00001 | with studs M6 + fastening washer     | Ø6.3, □8, Ø10        | with groove incl. o-ring         |



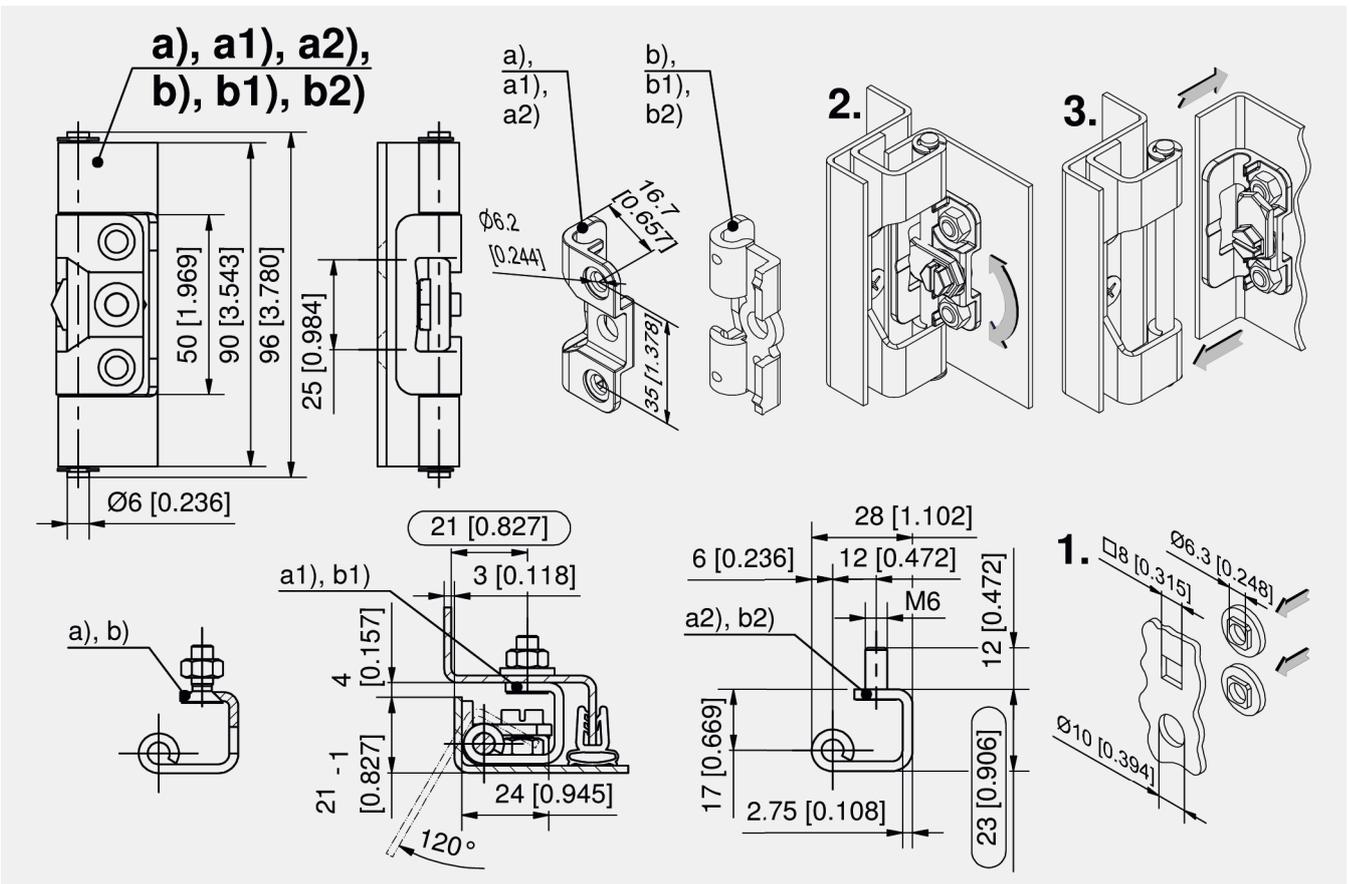
**Features**

- For surface mounted doors.
- Hinge concealed.
- Door bending 23 mm.
- RH / LH application.
- 120° Opening angle.
- By rotating the 1/4 turn, the pivot pin is released and the door can be removed by pulling it to the front (see 2. and 3.).

**Material and surface**

- a), a1) and a2)
- All parts:** steel, zinc plated
- b), b1) and b2)
- Door-part and ¼ turn:** zinc die, zinc plated
- Frame-part:** steel, zinc plated
- Pin:** steel, zinc plated
- Note**
- 1. = Installation instruction for fastening washer.

To a2) and b2):  
Fastening washer is not used when Ø6.3.



**Concealed Hinge**

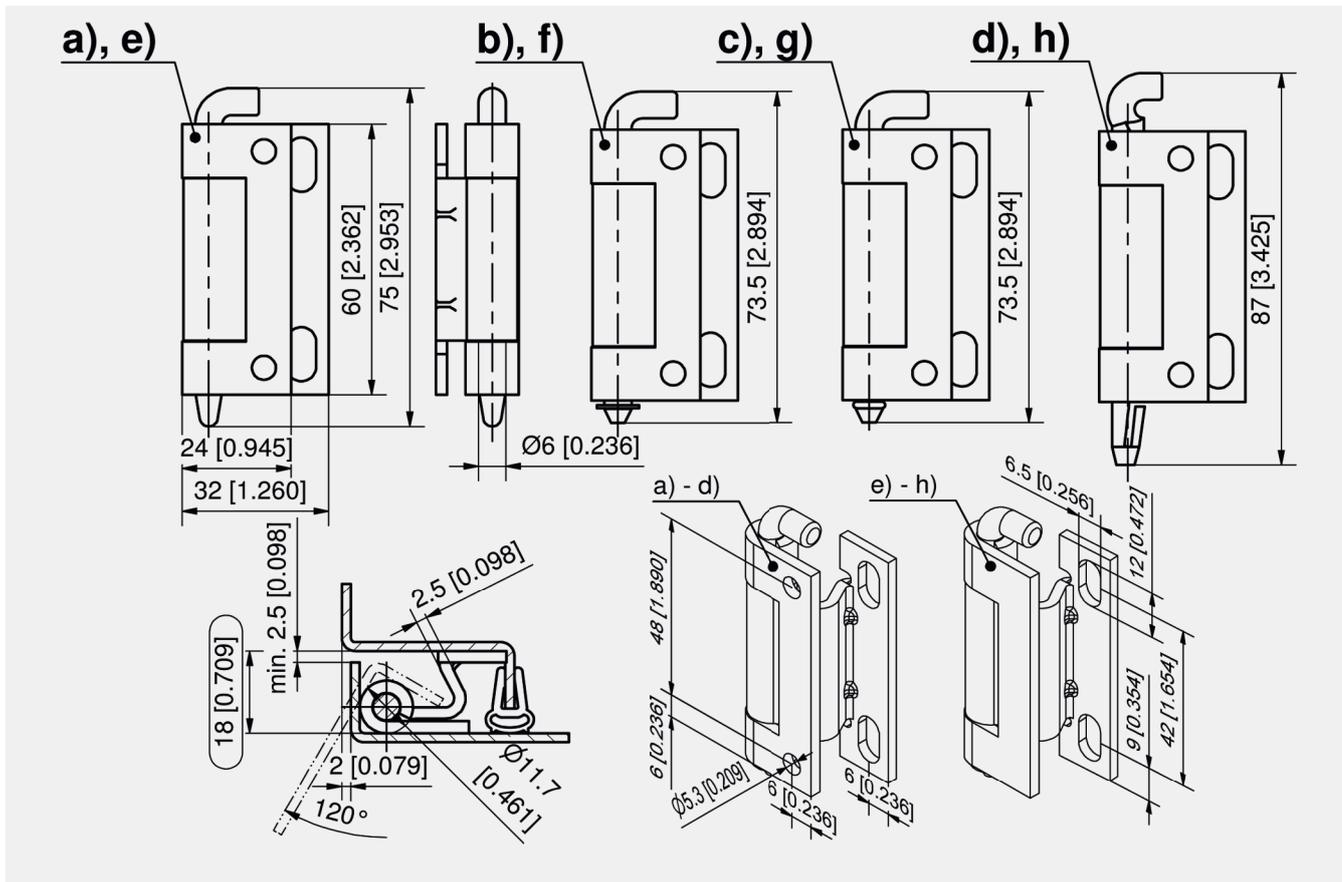
|     | Part Number       | Frame-part                           | Cutouts in the frame | Installation type door-part |
|-----|-------------------|--------------------------------------|----------------------|-----------------------------|
| a)  | 243-9003.00-00000 | with countersunk holes for M6        | Ø6.3 or M6           | weld-on                     |
| b)  | 243-9009.00-00000 | with countersunk holes for M6        | Ø6.3 or M6           | screw-on                    |
| a1) | 243-9002.00-00000 | with holes for M6 + fastening washer | Ø8 or Ø10            | weld-on                     |
| b1) | 243-9010.00-00000 | with holes for M6 + fastening washer | Ø8 or Ø10            | screw-on                    |
| a2) | 243-9007.00-00000 | with holes for M6 + fastening washer | Ø6.3, Ø8, Ø10        | weld-on                     |
| b2) | 243-9011.00-00000 | with holes for M6 + fastening washer | Ø6.3, Ø8, Ø10        | screw-on                    |

**Features**

- For surface mounted doors.
- Hinge concealed.
- Door bending 18 mm.
- RH / LH application.
- 120° Opening angle.
- Door-part screw-on or weld-on.
- Frame-part screw-on.
- The hinge can also be supplied with a self-securing POM pin which can be mounted upside-down for very short enclosures.

**Material and surface**

- Frame-part:** steel, zinc plated
- Door-part:** steel, untreated
- Pin:** steel, zinc plated  
d) and h)
- Pin:** POM natural  
c) and g)
- O-ring:** NBR



## Concealed Hinge

|    | Part Number       | Installation type door-part | Pin version                      | Material Pin       |
|----|-------------------|-----------------------------|----------------------------------|--------------------|
| a) | 216-9003.00-00000 | screw-on                    | without groove                   | steel, zinc plated |
| b) | 216-9011.00-00000 | screw-on                    | with groove incl. retaining ring | steel, zinc plated |
| c) | 216-9011.00-00001 | screw-on                    | with groove incl. o-ring         | steel, zinc plated |
| d) | 216-9006.00-00000 | screw-on                    | self-securing                    | POM                |
| e) | 216-9024.00-00000 | weld-on                     | without groove                   | steel, zinc plated |
| f) | 216-9025.00-00000 | weld-on                     | with groove incl. retaining ring | steel, zinc plated |
| g) | 216-9025.00-00001 | weld-on                     | with groove incl. o-ring         | steel, zinc plated |
| h) | 216-9026.00-00000 | weld-on                     | self-securing                    | POM                |

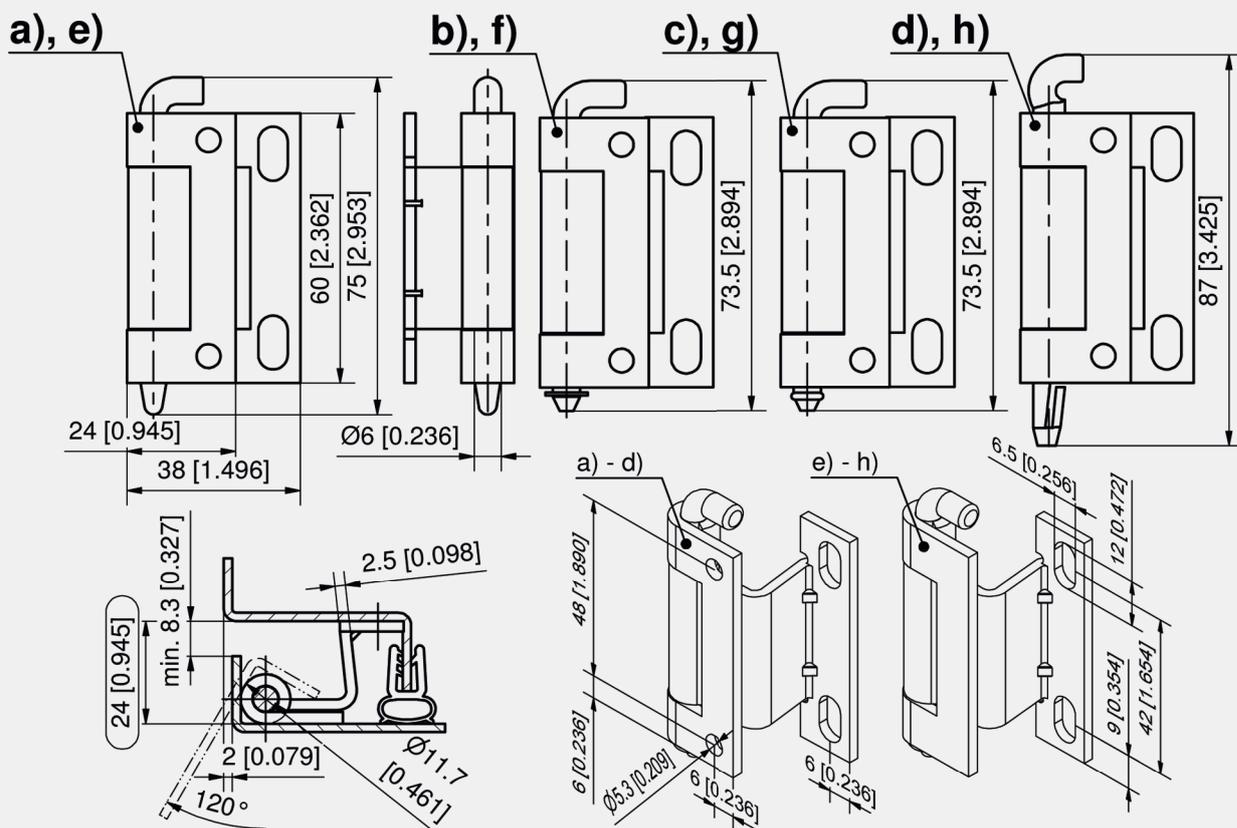


**Features**

- For surface mounted doors.
- Hinge concealed.
- Door bending 24 mm.
- RH / LH application.
- 120° Opening angle.
- Door-part screw-on or weld-on.
- Frame-part screw-on.
- The hinge can also be supplied with a self-securing POM pin which can be mounted upside-down for very short enclosures.

**Material and surface**

- Frame-part:** steel, zinc plated
- Door-part:** steel, untreated
- Pin:** steel, zinc plated
- d) and h)
- Pin:** POM natural
- c) and g)
- O-ring:** NBR



**Concealed Hinge**

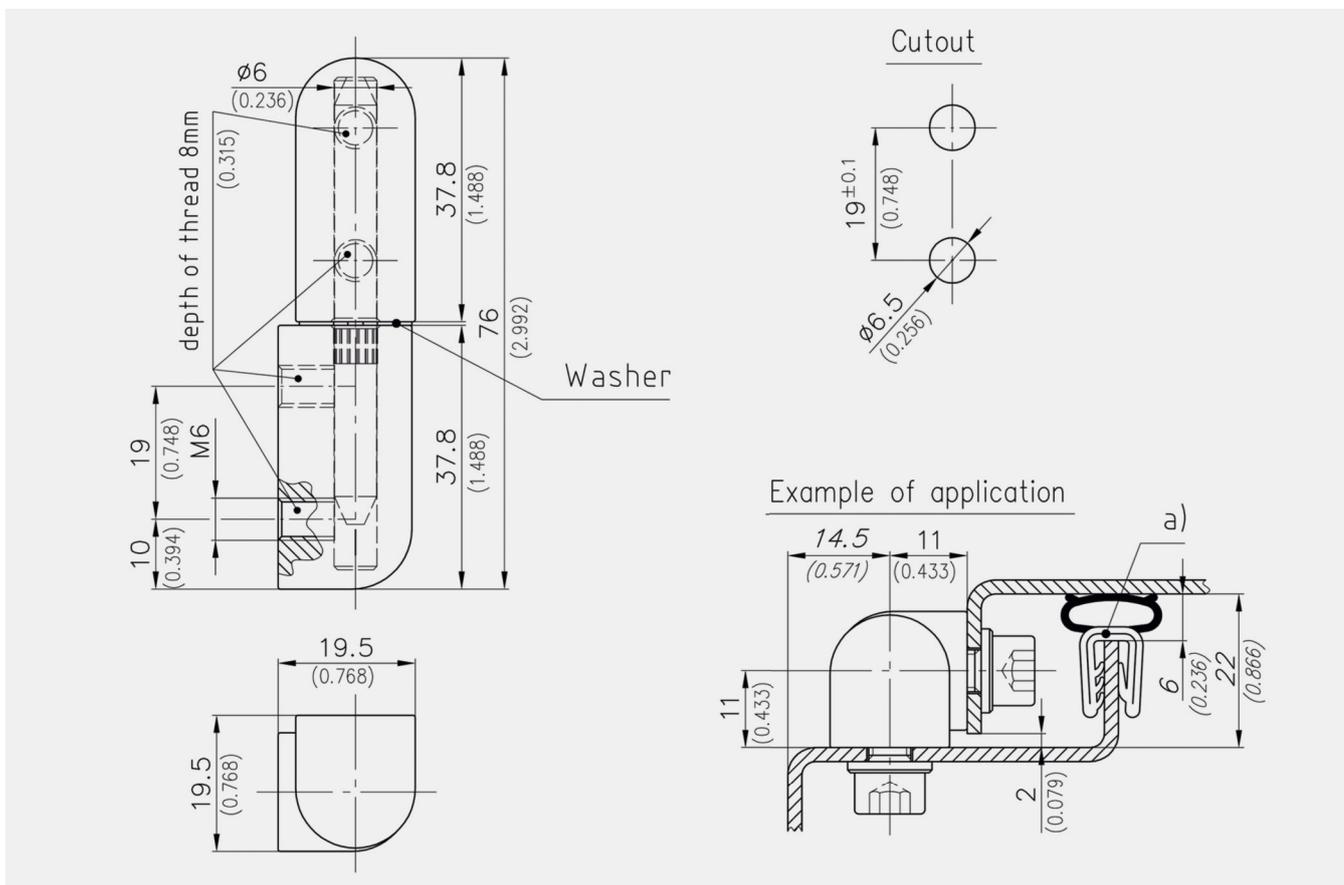
|    | Part Number       | Installation type door-part | Pin version                      | Material Pin       |
|----|-------------------|-----------------------------|----------------------------------|--------------------|
| a) | 216-9004.00-00000 | screw-on                    | without groove                   | steel, zinc plated |
| b) | 216-9012.00-00000 | screw-on                    | with groove incl. retaining ring | steel, zinc plated |
| c) | 216-9012.00-00001 | screw-on                    | with groove incl. o-ring         | steel, zinc plated |
| d) | 216-9007.00-00000 | screw-on                    | self-securing                    | POM                |
| e) | 216-9029.00-00000 | weld-on                     | without groove                   | steel, zinc plated |
| f) | 216-9028.00-00000 | weld-on                     | with groove incl. retaining ring | steel, zinc plated |
| g) | 216-9028.00-00001 | weld-on                     | with groove incl. o-ring         | steel, zinc plated |
| h) | 216-9030.00-00000 | weld-on                     | self-securing                    | POM                |

**Features**

- For surface mounted doors.
- Hinge visible.
- Lift-off.
- RH / LH application.
- 180° Opening angle.
- Pin pressed-in.
- With teflon spacer for a durable, smooth-running functional reliability.

**Material and surface**

- Corner hinge:** zinc die, chrome plated, black powdered or untreated
- Pin:** steel, zinc plated
- Washer:** teflon


**Corner Hinge**

| Part Number       | Version        | Pin version | Material Pin       | Installation type | Pin d |
|-------------------|----------------|-------------|--------------------|-------------------|-------|
| 224-9009.00-00000 | chrome plated  | pressed in  | steel, zinc plated | screw-on          | 6     |
| 224-9010.00-00000 | black powdered | pressed in  | steel, zinc plated | screw-on          | 6     |
| 224-9011.00-00000 | untreated      | pressed in  | steel, zinc plated | screw-on          | 6     |

SNAP



RoHS  
WEEE



**Features**

- For nested doors.
- Hinge concealed.
- Small space requirement.
- 120° Opening angle.
- A simple clip-in fitting. The spring loaded pin allows for an easy and quick installation and removal of the door.

**Material and surface**

**Housing:** PA, black

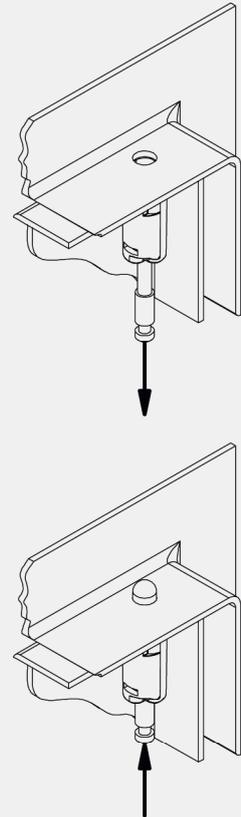
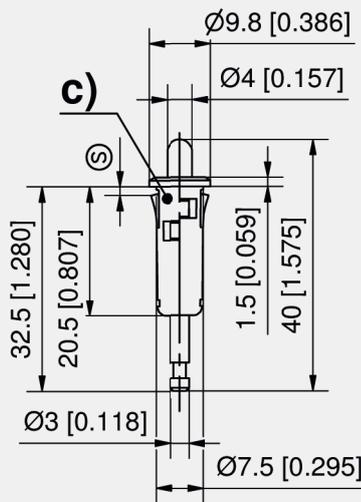
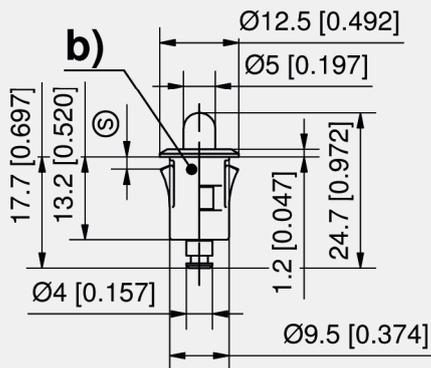
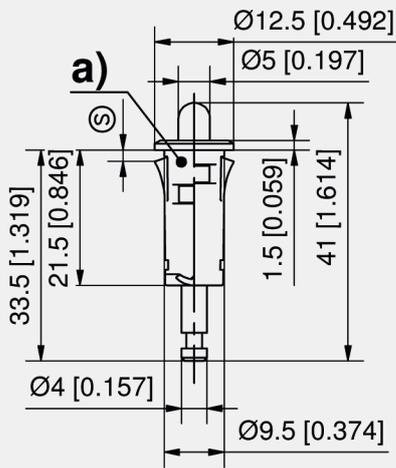
**Pin:** steel, zinc plated  
a) and c)

**Spring:** stainless steel  
b)

**Spring:** steel, zinc plated

**Note**

Door-cutout and frame-cutout differ.



**Concealed Hinge**

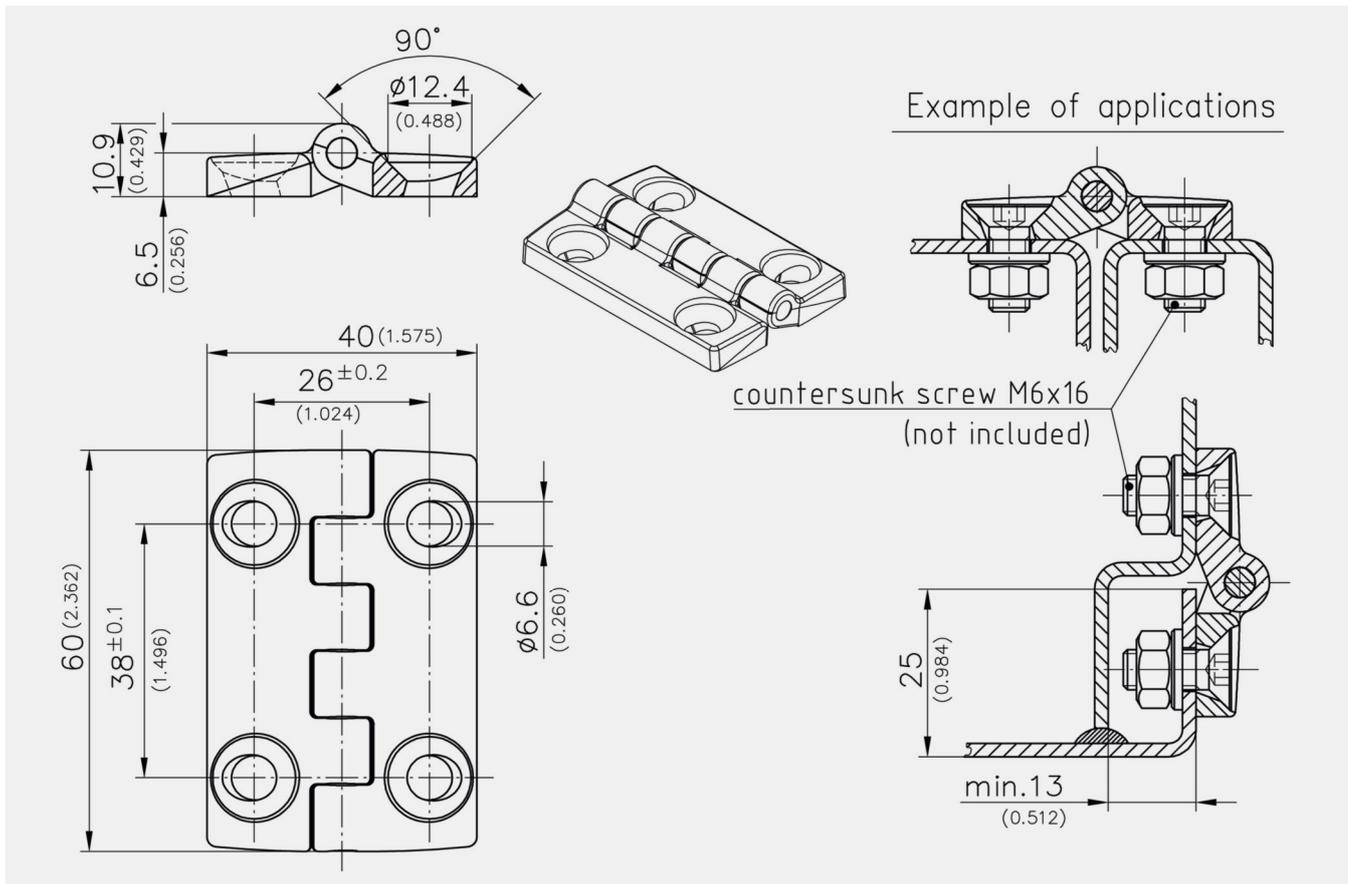
|    | Part Number       | clamping range (S) | Material Pin       | Installation type |
|----|-------------------|--------------------|--------------------|-------------------|
| a) | 245-9303.00-00000 | 1.4-1.6            | steel, zinc plated | tool-less         |
| b) | 245-9304.07-07101 | 1.4-1.6            | steel, zinc plated | tool-less         |
| c) | 245-9301.00-00000 | 1.0-1.2            | steel, zinc plated | tool-less         |

**Features**

- For nested doors.
- Hinge visible.
- RH / LH application.
- 180° Opening angle.
- Captive pin protected against loosening and falling out.
- Tight tolerance in knuckles ensures proper alignment.
- 6-part knuckle pin assembly.
- Lightweight.
- Corrosion resistant.
- Rounded corners.
- Fitting by countersunk screws M6 x 16 according to DIN 7991 or DIN ISO 10642 and DIN 965 or DIN ISO 7046.

**Material and surface**

**Hinge:** PA6, black UL 94 V0 halogen free



**Hinge**

| Part Number       | Pin version | Material Pin | Installation type |
|-------------------|-------------|--------------|-------------------|
| 218-9220.00-00000 | molded in   | PA           | screw-on          |



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Clip-on profiles combine the characteristics of edge protection profiles and sealing profiles.

**Features**

- EPDM profiles are tested according to UL 157 and UL 50 E.
- Clip-on sealing.
- The sealing part of these profiles is made of sponge rubber and the clamp area consists of soft rubber with a steel clip-on core.
- In an extrusion process the two materials are bonded to each other through vulcanization.

**Material and surface**

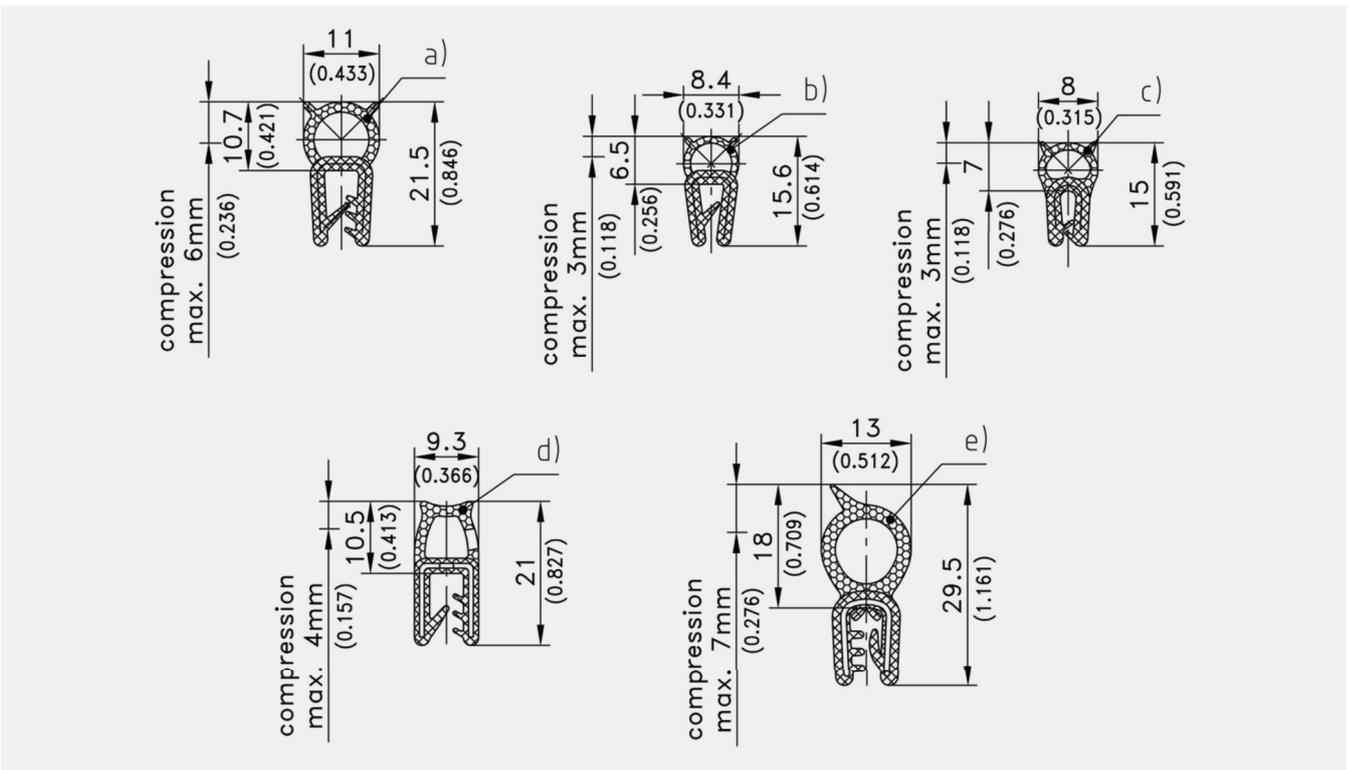
**Clip-on profiles:** EPDM or NBR

**Carrier:** Soft rubber

**Sealing part:** Sponge rubber

**Note**

The profiles made of NBR are oil resistant.



Clip-on sealing profile

|    | Part Number       | Material          | Material 2          | Colour | Clamping range | Width W | Height H | Packaging unit |
|----|-------------------|-------------------|---------------------|--------|----------------|---------|----------|----------------|
| a) | 209-0201.00-00000 | Soft rubber, EPDM | Sponge rubber, EPDM | black  | 1,5–3,0        | 11      | 21,5     | 50 m           |
| a) | 209-0201.1A-00000 | Soft rubber, EPDM | Sponge rubber, EPDM | black  | 0,8–2,0        | 11      | 21,5     | 50 m           |
| a) | 209-2201.00-00000 | Soft rubber, NBR  | Sponge rubber, NBR  | black  | 1,5–3,0        | 11      | 21,5     | 50 m           |
| a) | 209-0240.00-00000 | Soft rubber, EPDM | Sponge rubber, EPDM | black  | 3,0–4,0        | 11      | 21,5     | 100 m          |
| b) | 209-0205.00-00000 | Soft rubber, EPDM | Sponge rubber, EPDM | black  | 1,0–2,0        | 8,4     | 15,6     | 50 m           |
| b) | 209-0246.00-00000 | Soft rubber, NBR  | Sponge rubber, NBR  | black  | 1,0–2,0        | 8,4     | 15,6     | 50 m           |
| c) | 209-0205.1A-00000 | Soft rubber, EPDM | Sponge rubber, EPDM | black  | 0,8–1,5        | 8       | 15       | 50 m           |
| d) | 209-0211.00-00000 | Soft rubber, EPDM | Sponge rubber, EPDM | black  | 1,0–2,5        | 9,3     | 21       | 75 m           |
| e) | 209-0220.00-00000 | Soft rubber, EPDM | Sponge rubber, EPDM | black  | 1,0–2,5        | 13      | 29,5     | 75 m           |

### Features

- Screw assembly consists of raised countersunk M5 x 30 Phillips H2 screw and sleeve.
- Additional lengths and materials of the screw available on request.
- Captive by using O-ring 839-3770.00-00412.

### Material and surface

**Raised countersunk screw:** steel, zinc plated

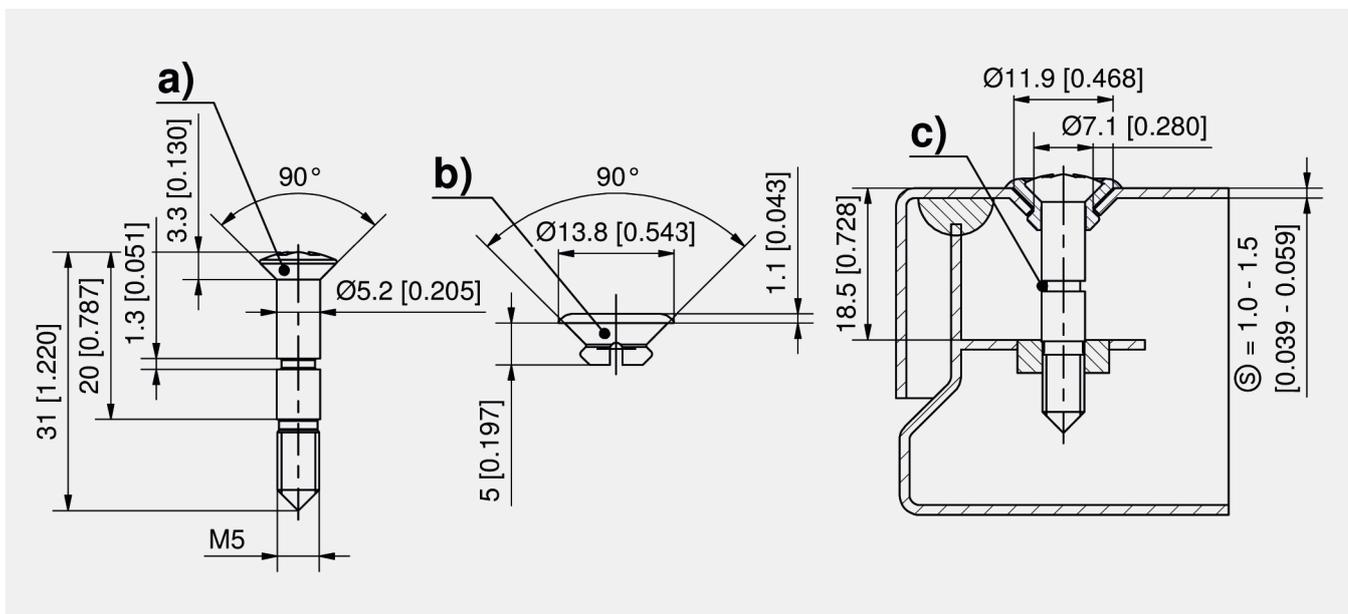
**Sleeve:** TPV / Santoprene

### Note

Meets IP66 certification (applicable for installation example shown below with even compression of the foam/glued seal).

IP 66

RoHS WEEE



### Screw assembly

|    | Part Number       | Version                           |
|----|-------------------|-----------------------------------|
| a) | 202-1103.15-00530 | Raised countersunk screw, M5 x 30 |
| b) | 203-0655.61-00000 | Sleeve                            |

|   | Function extension | Part Number       |
|---|--------------------|-------------------|
| + | O-ring 4 x 1.2 mm  | 839-3770.00-00412 |

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WEEE



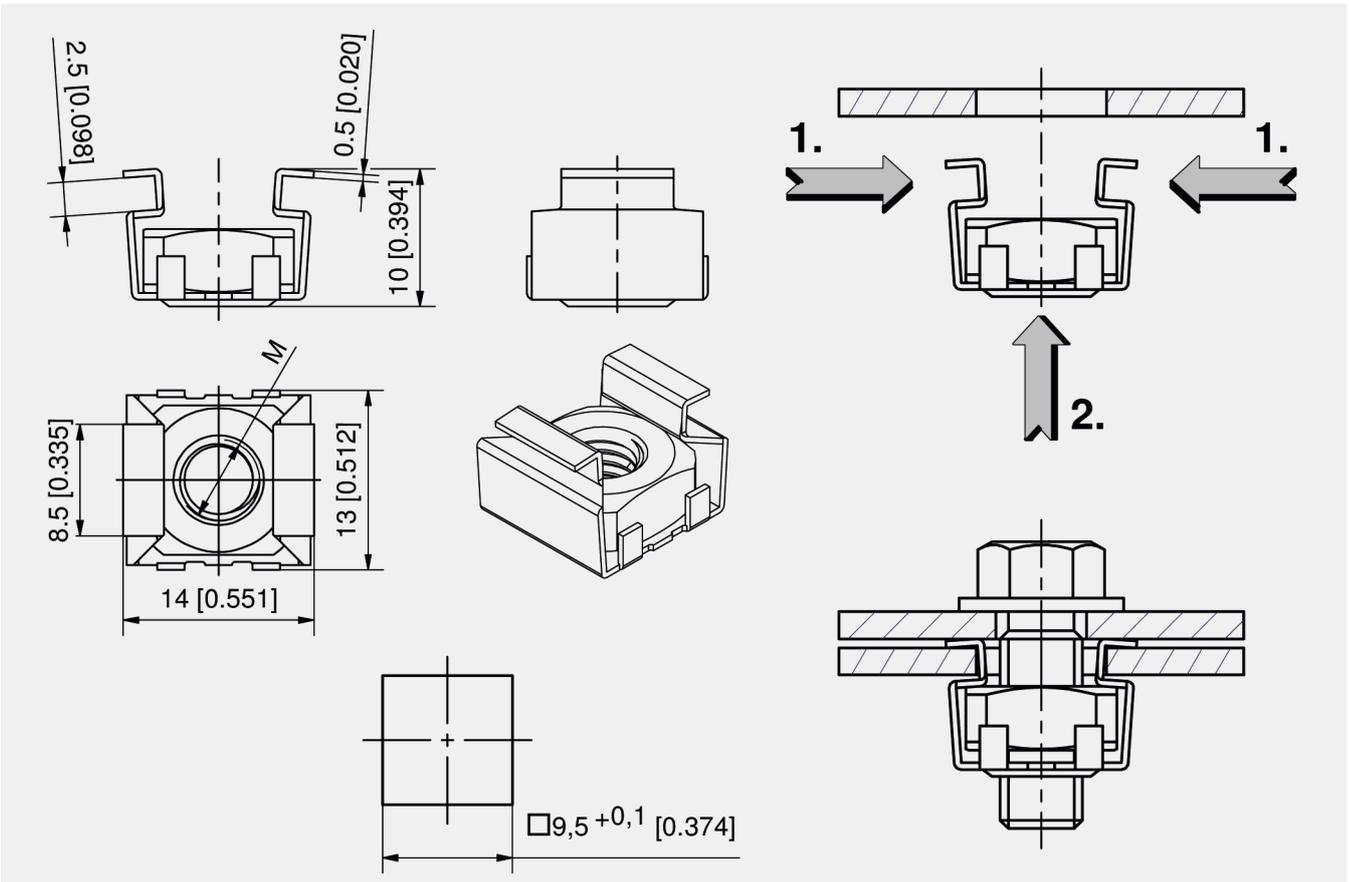
Ensures fixed connection of two metal sheets.

**Features**

- Easy installation by pressing into square holes.
- Nut is moveable and adjustable in the cage until final fixing by screw.

**Material and surface**

**Cage:** steel, zinc plated or stainless steel AISI 304  
**Nut:** steel, zinc plated or stainless steel AISI 316



**Cage Nuts**

| Part Number       | Material        | Surface     | Version | packaging unit |
|-------------------|-----------------|-------------|---------|----------------|
| 359-0250.06-00000 | steel           | zinc plated | M5      | 200 pcs.       |
| 359-0206.06-00000 | steel           | zinc plated | M6      | 200 pcs.       |
| 353-2010.00-00000 | stainless steel |             | M5      | 200 pcs.       |

Ensures fixed connection of two metal sheets.

**Features**

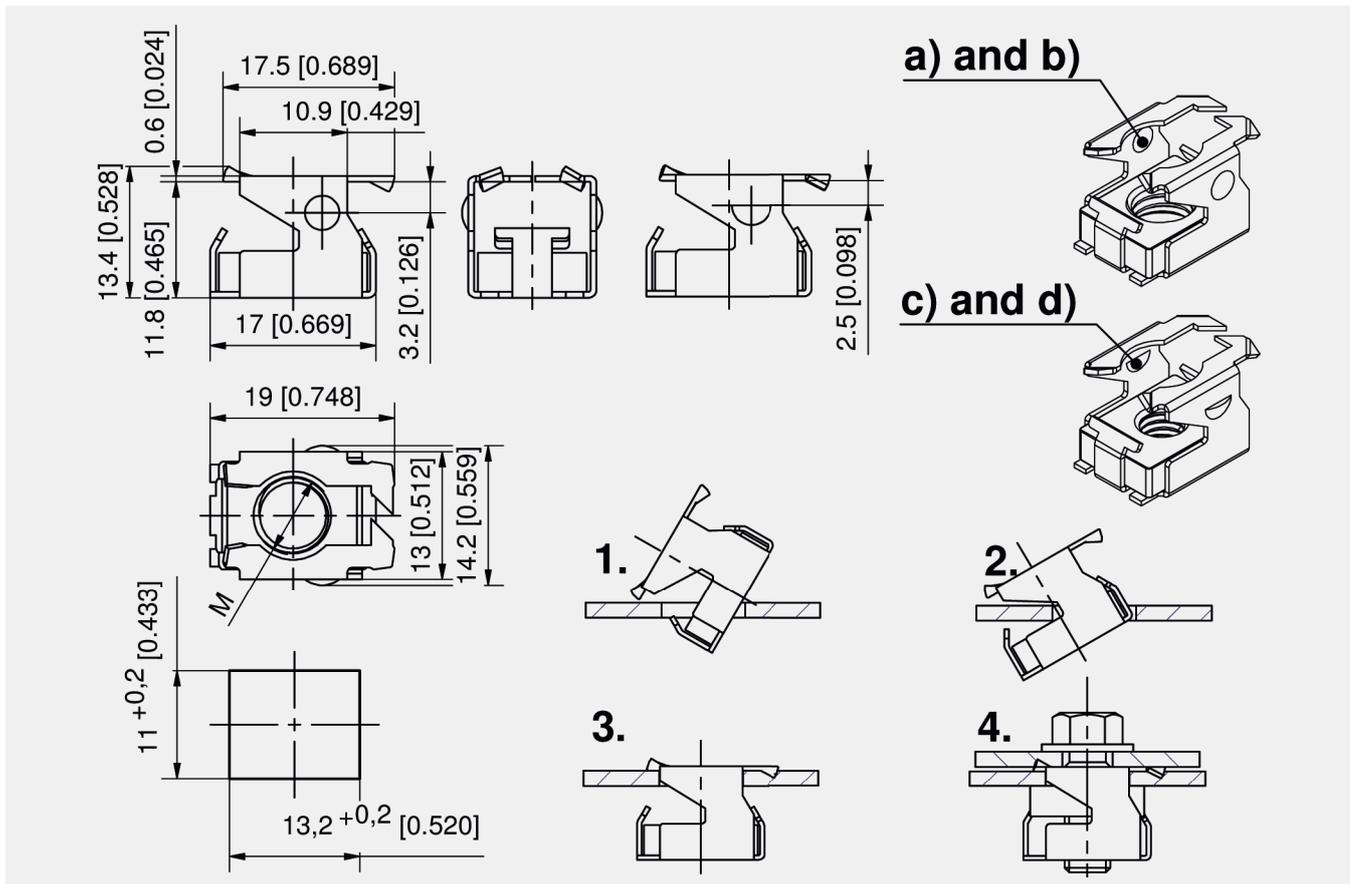
- Easy installation by pressing into square holes.
- Nut is moveable and adjustable in the cage until final fixing by screw.
- c) and d) Special design of the cage prevents from falling out of the cutout.

**Material and surface**

Cage and Nut: steel, zinc plated



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**Cage Nuts**

|    | Part Number       | Material | Surface     | Version   | packaging unit |
|----|-------------------|----------|-------------|-----------|----------------|
| a) | 350-2004.00-00000 | steel    | zinc plated | M8        | 200 pcs.       |
| b) | 350-2005.00-00000 | steel    | zinc plated | M6        | 200 pcs.       |
| c) | 350-2046.00-00000 | steel    | zinc plated | M6        | 200 pcs.       |
| d) | 350-2096.00-00000 | steel    | zinc plated | 1/4-20UNC | 200 pcs.       |

SNAP



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WEEE



Wire catches SNAP-LINE can be fitted onto pre-punched channels / profiles.

**Features**

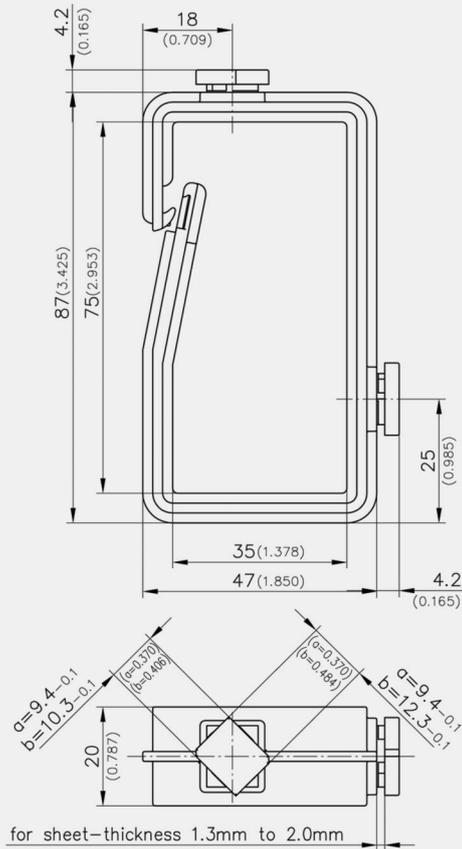
- Improves handling of power, network and fiber optic cables in the cabinet.
- Easy installation in a suitable square hole by turning 45°.
- The jamming of the bow parts in the range of the opening when the cable support is filled.
- For sheet-thickness 1.3 mm to 2.0 mm.

**Material and surface**

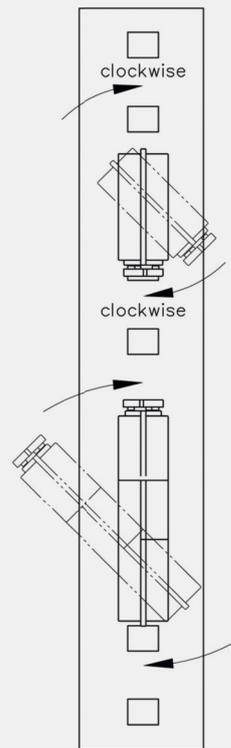
Wire catch: PA, black

**Note**

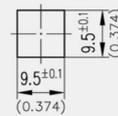
Enter the wire catch in an angle of about 45° into the cutout and turn 45° clockwise. At this end position the special shape makes the wire catch fixed in the cutout.



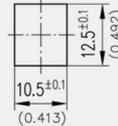
Example of application



Cutout a)



Cutout b)



Wire Catch

|    | Part Number       | Cutout      | Installation type |
|----|-------------------|-------------|-------------------|
| a) | 214-0106.50-00013 | 9.5         | tool-less         |
| b) | 214-0105.50-00013 | 12.5 x 10.5 | tool-less         |

Clip-in cable management device for a cutout of 12.7, e.g. rail frame.

**Features**

- Clips into the installation cutout for simple tool-less installation.
- The square base 12.5 of the cable management device prevents it from turning within the installation cutout.
- Can be opened or closed from the front in order to facilitate inserting or removing of the cables.
- Horizontal / vertical use.

**Material and surface**

**Cable Management Device:**  
PA, black

**Note**

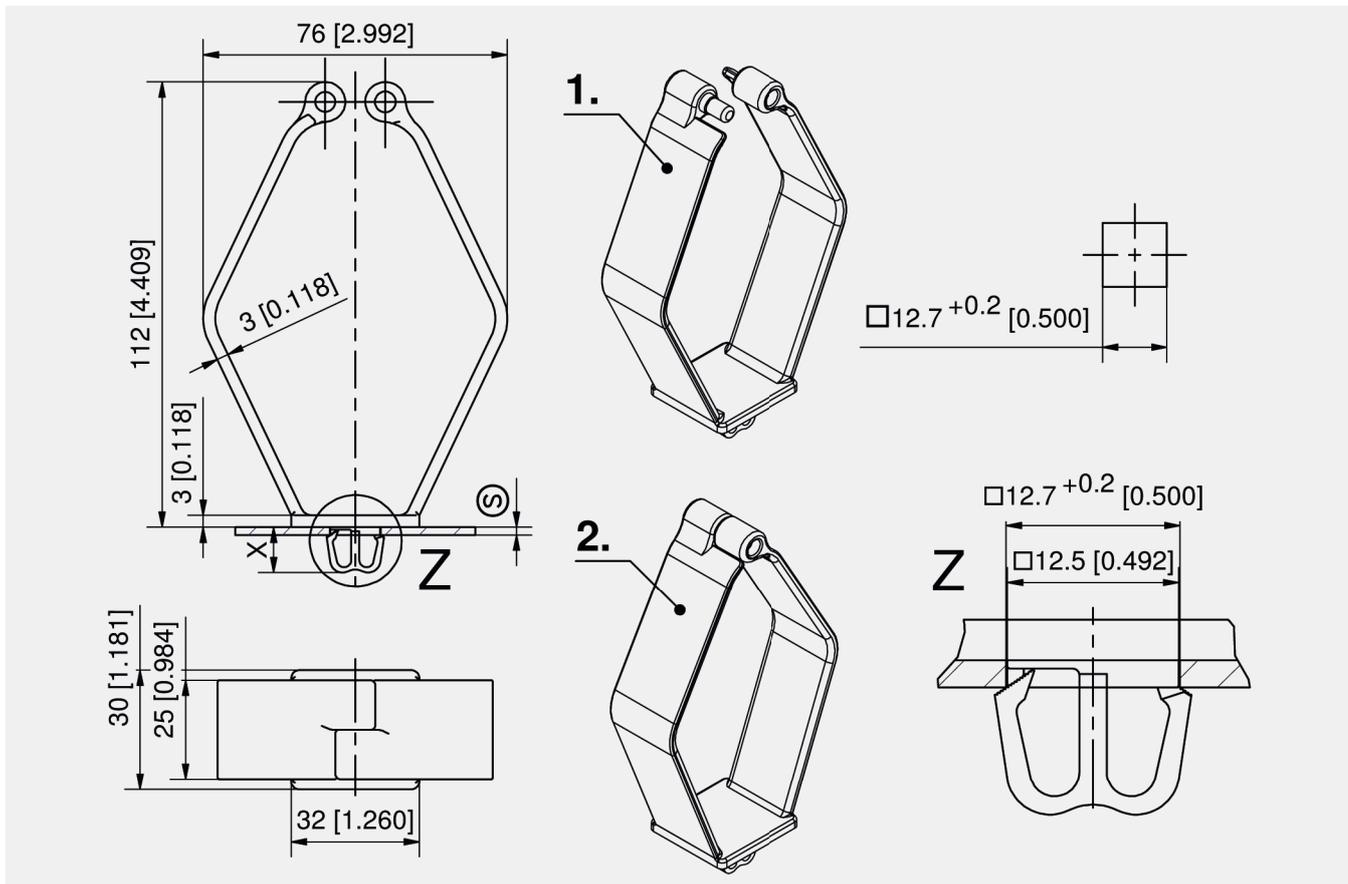
- 1. = open
- 2. = closed



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**Cable Management Device**

| Part Number       | Cutout | Installation type | clamping range (S) | Dimension X | packaging unit |
|-------------------|--------|-------------------|--------------------|-------------|----------------|
| 214-0108.51-20000 | 12.7   | tool-less         | 1,5-2              | 11,4        | 100            |

| + | Function extension           | Part Number |
|---|------------------------------|-------------|
|   | Clip-on Radius R30 SNAP-LINE | 6-065SL     |

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Cable management device for clipping onto a cutout of 9.5 with a separate fastener e.g. rail frame.

**Features**

- Use of a Fastener allows for quick, tool-less assembly.
- Prevents the cable management device from turning.
- Can be opened or closed from the front in order to facilitate inserting or removing of the cables.
- Horizontal / vertical use.

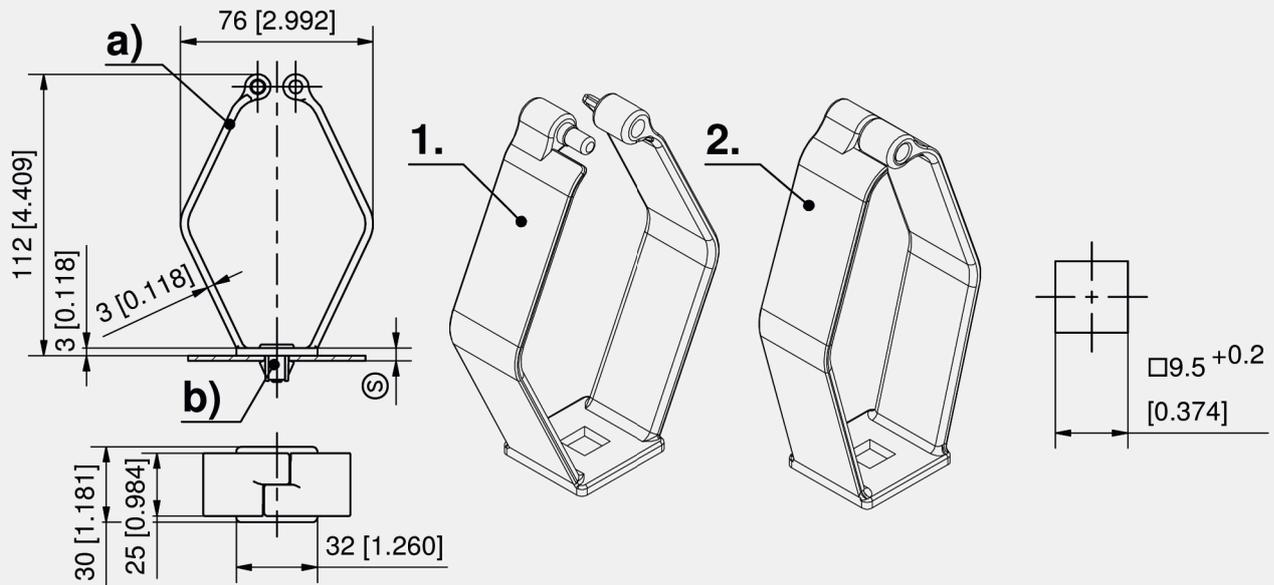
**Material and surface**

**Cable management device:**  
PA, black

**Note**

The (S) dimension indicates the total thickness of the sheet metal panels.

- b) = Fastener
- 1. = open
- 2. = closed



**Cable Management Device**

|    | Part Number       | Cutout | Installation type | packaging unit |
|----|-------------------|--------|-------------------|----------------|
| a) | 214-0108.51-00000 | 9.5    | tool-less         | 100            |

|   | Function extension                  | Part Number |
|---|-------------------------------------|-------------|
| + | Captive Flex-Fastener 9.5 SNAP-LINE | 1-034SL     |
|   | Captive Flex-Fastener 9.5 SNAP-LINE | 1-034.01SL  |
|   | Fastener 9.5 SNAP-LINE              | 1-041.03SL  |
|   | Captive Fastener 9.5 SNAP-LINE      | 1-041.06SL  |
|   | Clip-on Radius R30 SNAP-LINE        | 6-065SL     |

Clip-on radius R30 for cable management device 6-061SL and 6-062SL.

**Features**

- Tool-less installation.
- Simplifies wiring of horizontal power, network and fiber optic cables in the cabinet.
- Easily guides cables around corners with gentle radius.
- Protects cables from damage and kinks during wiring.

**Material and surface**

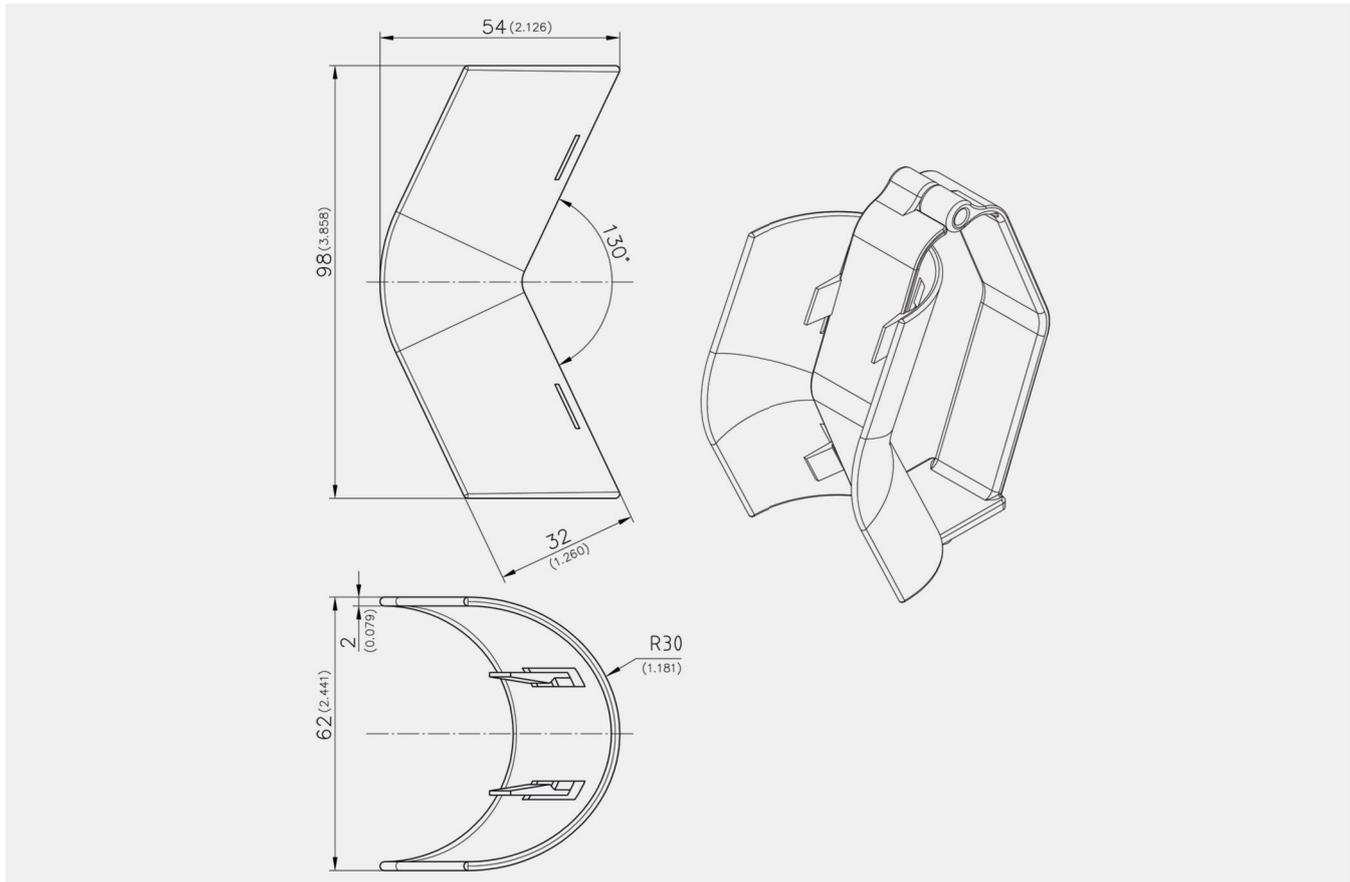
Clip-on radius: PA, black



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Clip-on Radius for Cable Management Device

| Part Number       | Installation type | packaging unit |
|-------------------|-------------------|----------------|
| 214-0110.51-00000 | tool-less         | 100            |

| Function extension                     | Part Number |
|--|-------------|
| Cable Management Device 12.7 SNAP-LINE | 6-061SL     |
| Cable Management Device 9.5 SNAP-LINE  | 6-062SL     |

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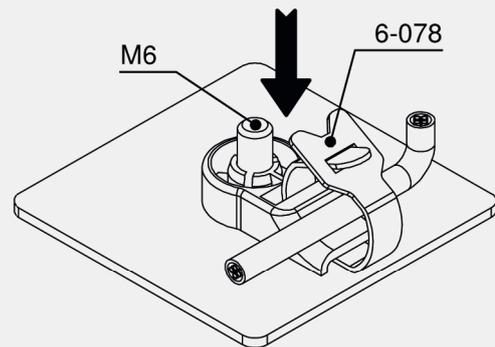
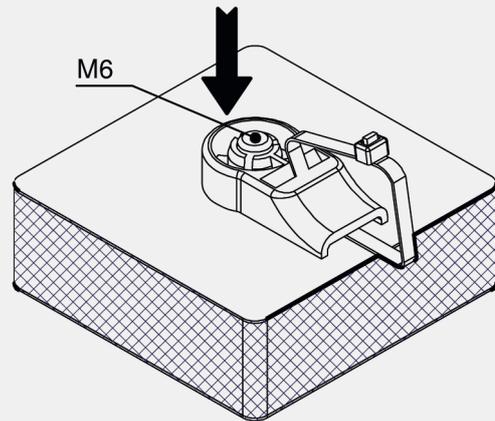
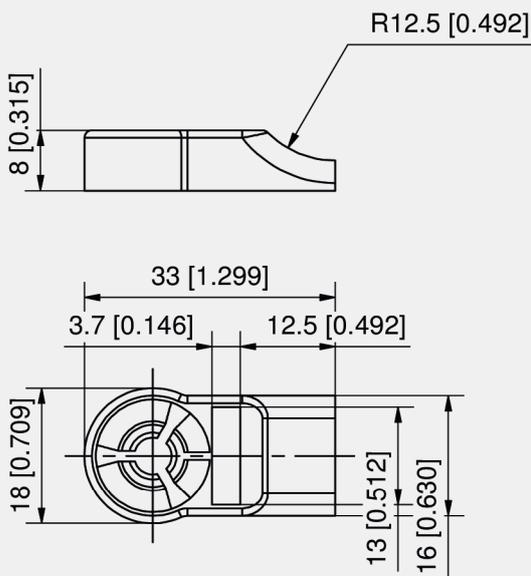
Cable tie mount for quick, tool-less assembly onto a M6 weld stud.

**Features**

- Simple insertion of the cable tie through the upper insertion opening.
- Secure fit on the weld stud ensures strong hold of the cables via cable ties.
- Secure fit in any position on the weld stud.
- Can be removed by simply unscrewing counter clockwise.

**Material and surface**

Cable tie mount: PA, black



**Cable Tie Mount**

| Part Number       | Installation type | packaging unit |
|-------------------|-------------------|----------------|
| 214-0111.51-00000 | tool-less         | 250            |

| Function extension | Part Number |
|--------------------|-------------|
| Velcro Cable Tie   | 6-078       |

Clip-in cable tie mount for 9.5 or 12.7 cutout.

**Features**

- Clips into the installation cutout for simple tool-less installation.
- The square base (9.2 and 12.5) of the cable tie mount prevents it from turning within the installation cutout.
- Cable tie easily installed through loop.
- Audible click ensures proper secure installation.

**Material and surface**

Cable tie mount: PA, black

**Note**

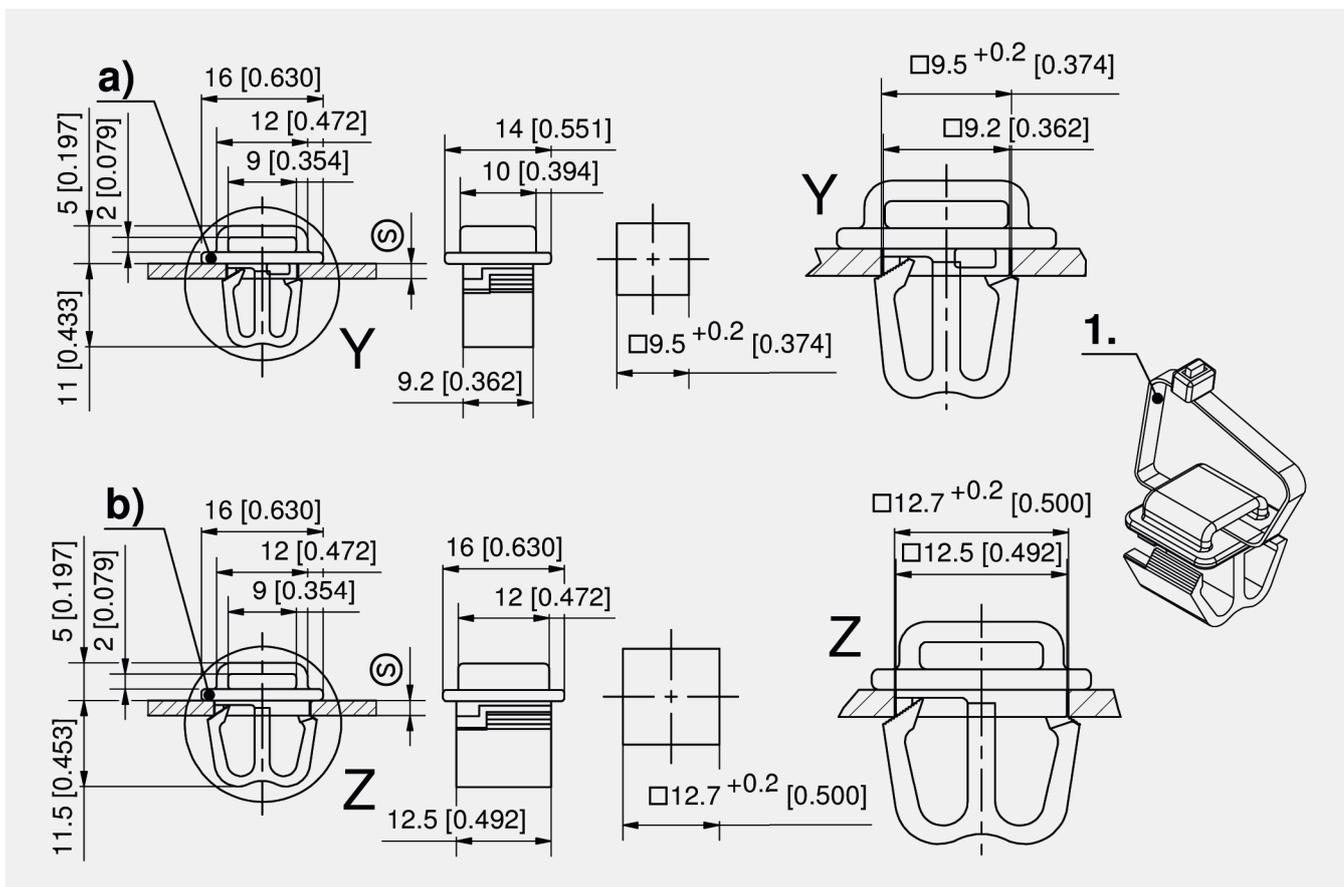
1. = Cable tie



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**UL**

**RoHS WEEE**



**Cable Tie Mount**

|    | Part Number       | Cutout | Installation type | clamping range (S) | packaging unit |
|----|-------------------|--------|-------------------|--------------------|----------------|
| a) | 214-0107.51-00000 | 9.5    | tool-less         | 1,5-2              | 250            |
| b) | 214-0107.51-10000 | 12.7   | tool-less         | 1,5-2              | 250            |

|   | Function extension | Part Number |
|---|--------------------|-------------|
| + | Velcro Cable Tie   | 6-078       |



Quarter-Turn PrA SNAP-LINE  
on page 32.

Velcro cable ties can be easily inserted into the holes in the cable tie bracket 6-068SL and 6-070SL.

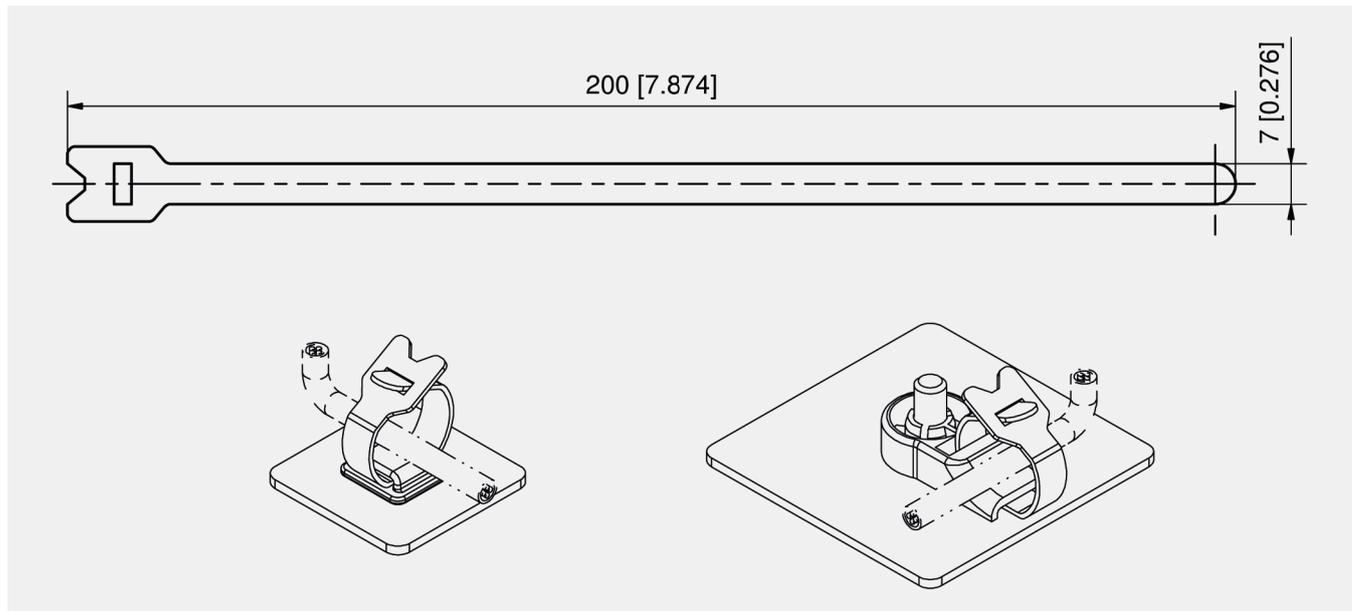
RoHS  
WEEE

### Features

- Flexible application allows cables, supply lines and hoses to be wrapped easily, effectively and without tools.
- Can be reused multiple times.
- Protects sensitive materials from damage.
- Soft and flexible material.

### Material and surface

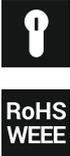
- Velcro cable tie:** PP and Velour, black
- Peel back force:** 0.4 Ncm
- Shear force:** 7.0 Ncm
- Tensile strength:** 120 Ncm
- Melting point:** 150°C



### Cable Tie

| Part Number       | Version       | packaging unit |
|-------------------|---------------|----------------|
| 214-0112.00-00050 | Length 200 mm | 50             |

| + | Function extension                     | Part Number |
|---|--|-------------|
|   | Cable Tie Mount 9.5 and 12.7 SNAP-LINE | 6-070SL     |
|   | Cable Tie Mount SNAP-LINE              | 6-068SL     |



Slam Latch for Profile-Cylinder with latch bolt made of spheroidal graphite cast iron to ensure high wear resistance.

**Features**

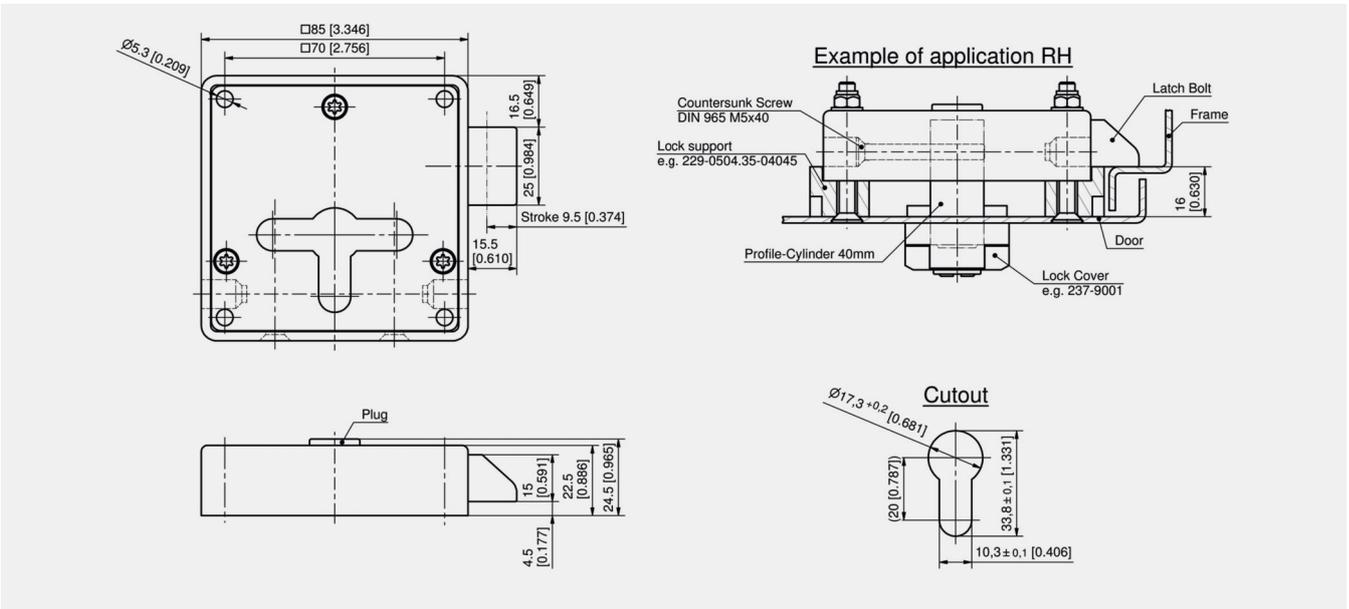
- RH / LH or vertical / horizontal application.
- Depending on application, key is always in the correct position.
- Profile-cylinder with lengths of 40 and 45 mm and cam acc. to DIN 18252 can be used.
- Pull back of the latch bolt by rotation of the key.
- Closing with slam-lock.
- Closing in locked position possible due to free stroke.

**Material and surface**

**Slam latch:** zinc die, zinc plated  
**Latch bolt:** spheroidal graphite, cast iron

**Note**

Please order separately:  
 Profile-Cylinder, Lock support and Lock cover  
 Installation with 4 carriage bolts or weld studs M5.



Slam latch for profile-cylinder

| Part Number       | Installation type | Version |
|-------------------|-------------------|---------|
| 229-9111.00-00000 | screw-on          | RH      |
| 229-9112.00-00000 | screw-on          | LH      |

|   |                   |                                   |
|---|-------------------|-----------------------------------|
| ✳ | 6-111.03          | Lock Support for Slam Latch       |
|   | 211-9001.00-00000 | Profile-cylinder, keyed different |
|   | 211-9002.00-00000 | Profile-cylinder, keyed alike     |

| Function extension   | Part Number |
|----------------------|-------------|
| Polyamide Lock Cover | 6-115       |

Slam Latch for Profile-Cylinder with latch bolt made of spheroidal graphite cast iron to ensure high wear resistance.

### Features

- Profile-cylinder with lengths of 40 / 45 mm and cam acc. to DIN 18252 can be used.
- Two profile-cylinder allow opening by each cylinder without un-locking the other one.
- Use of different keys and profile cylinders possible.
- Closing with slam-lock.
- Closing in locked position possible due to free stroke.

### Material and surface

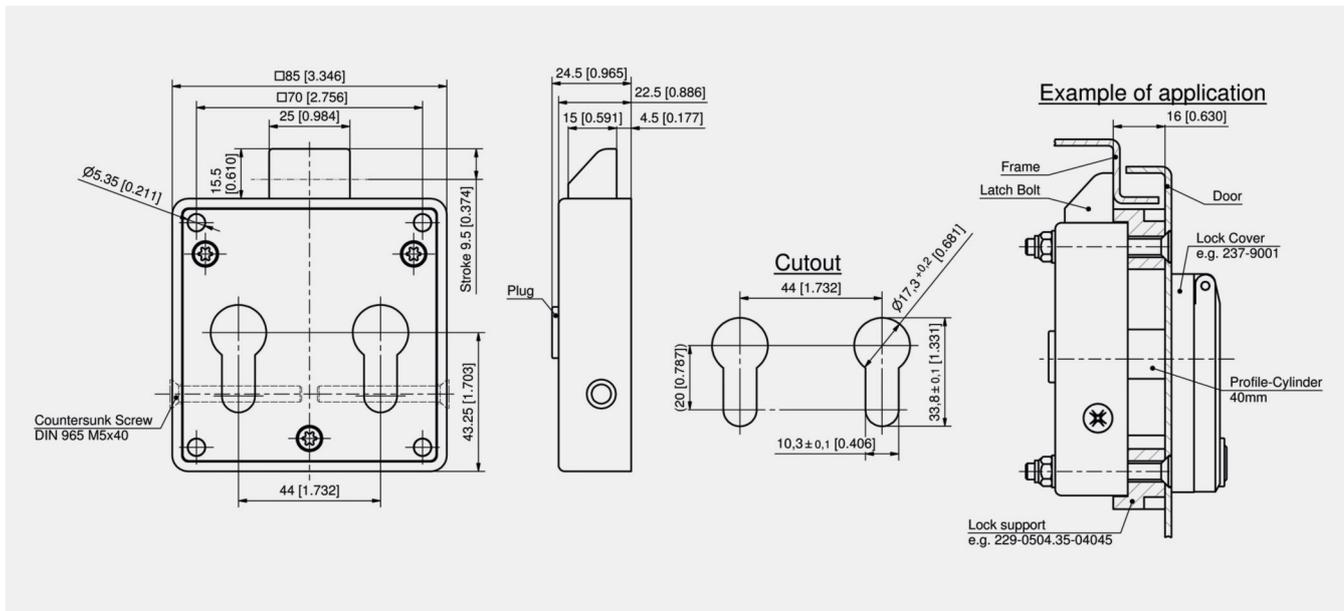
**Slam latch:** zinc die, zinc plated

**Latch bolt:** spheroidal graphite, cast iron

### Note

Please order separately:  
Profile-Cylinder, Lock support and Lock cover

Installation with 4 carriage bolts or weld studs M5.



## Slam latch for profile-cylinder

| Part Number       | Installation type                 |
|-------------------|-----------------------------------|
| 229-9113.00-00000 | screw-on                          |
| 6-111.03          | Lock Support for Slam Latch       |
| 211-9001.00-00000 | Profile-cylinder, keyed different |
| 211-9002.00-00000 | Profile-cylinder, keyed alike     |

| Function extension   | Part Number |
|----------------------|-------------|
| Polyamide Lock Cover | 6-115       |

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WEEE



Slam Latch for Profile-Cylinder with latch bolt made of spheroidal graphite cast iron to ensure high wear resistance.

**Features**

- RH / LH or vertical / horizontal application.
- Inserts see Product System 1-101, not included in delivery.
- Pull back of the bolt by rotation of the insert.
- Closing with slam-lock.
- Closing in locked position possible due to free stroke.

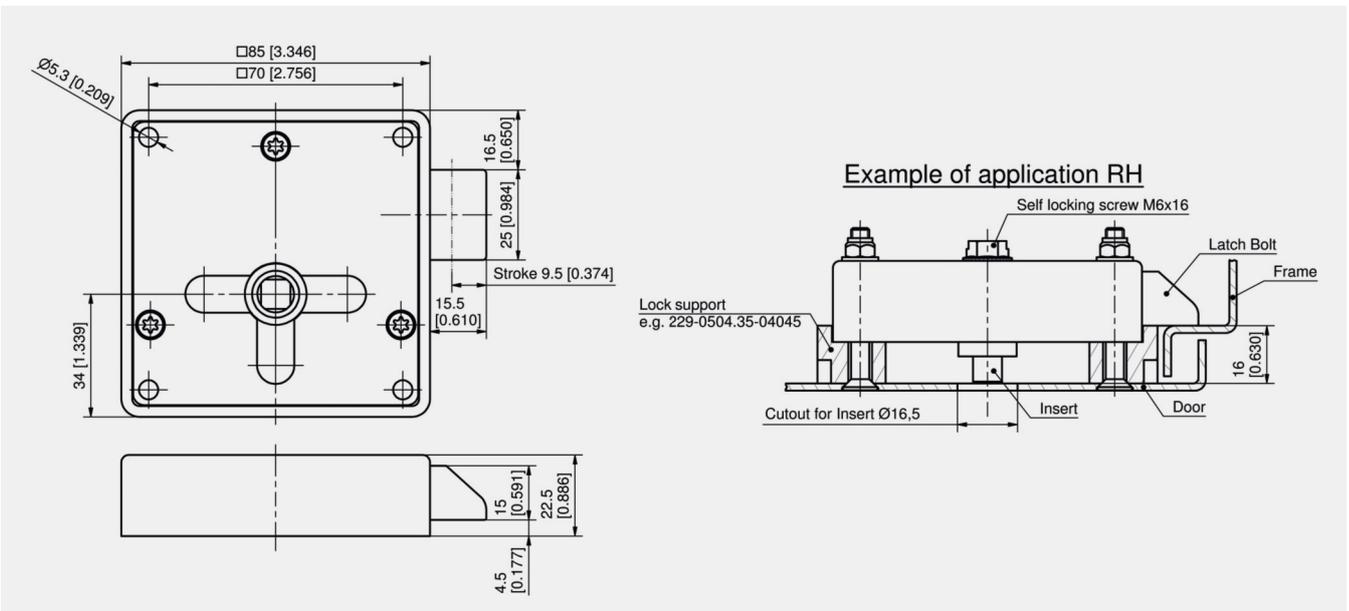
**Material and surface**

**Slam latch:** zinc die, zinc plated  
**Latch bolt:** spheroidal graphite, cast iron

**Note**

Please order separately:  
 Insert, Lock support and Lock cover

Installation with 4 carriage bolts or weld studs M5.



Slam latch for insert

| Part Number       | Installation type | Version |
|-------------------|-------------------|---------|
| 229-9109.00-00000 | screw-on          | RH      |
| 229-9110.00-00000 | screw-on          | LH      |

|   |          |   |
|---|----------|---|
| ✳ | 6-111.03 | Lock Support for Slam Latch<br>Inserts Pr20.1 |
|   | 1-101    |   |

| Function extension   | Part Number |
|----------------------|-------------|
| Polyamide Lock Cover | 6-115       |

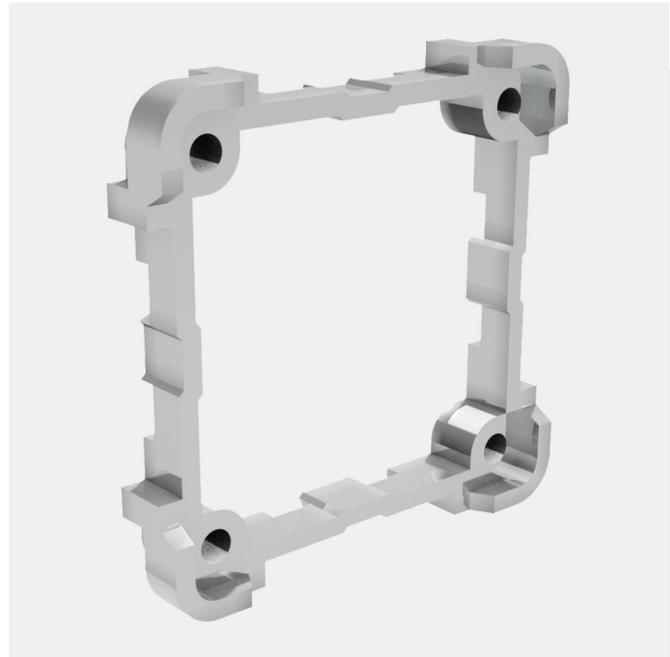
Lock support for different door bendings.

**Features**

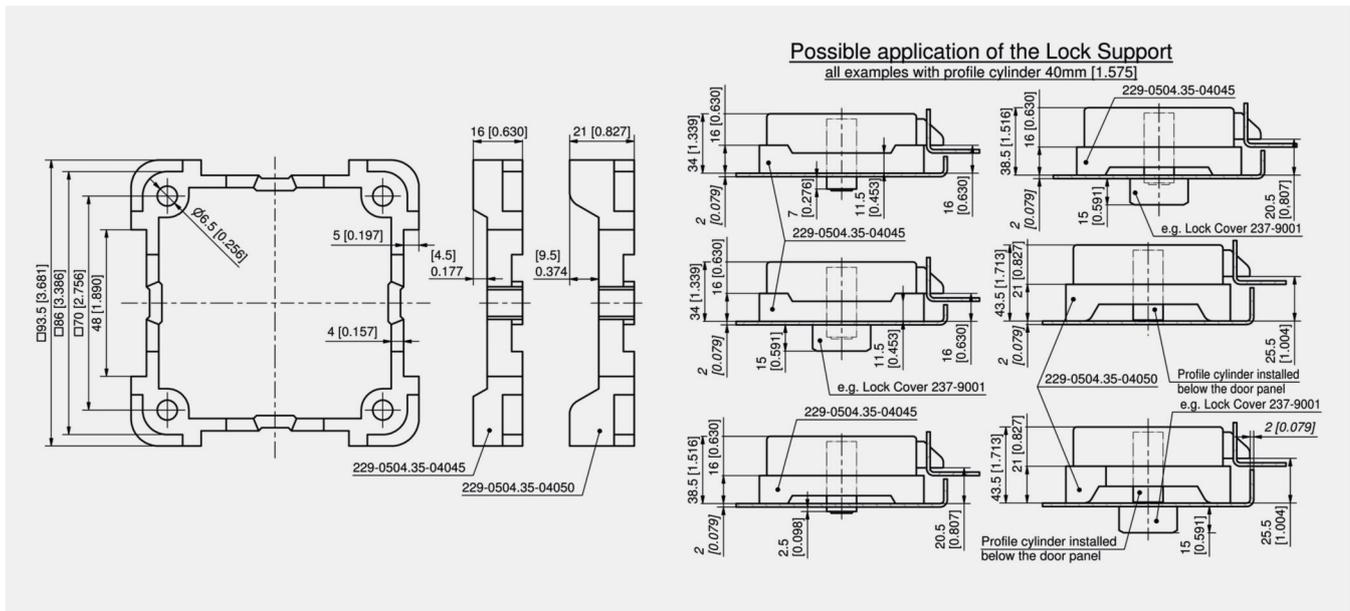
- Lock support 229-0504.35-04045 for bending of 11.5 or 16 mm.
- Lock support 229-0504.35-04050 for bending of 11.5 or 21 mm.

**Material and surface**

**Lock support:** zinc die, untreated



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Lock support for slam latch

| Part Number       | Bending    | Material | Surface   |
|-------------------|------------|----------|-----------|
| 229-0504.35-04045 | 11.5–16 mm | zinc die | untreated |
| 229-0504.35-04050 | 11.5–21 mm | zinc die | untreated |

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RoHS  
WEEE



Snap-lock SNAP-LINE, clip-in for door-thickness 0.8 mm to 2.0 mm (0.031 to 0.079)

**Features**

- This Snap-Lock device is especially suitable for latching of doors and lids.
- The Snap-Lock consists of two parts, housing and slam bolt.
- The bolt moves in the housing when you open it. This can't scratch the surface of the sheet metal.
- When the latch is released and in its final position a finger-tip grip becomes accessible to facilitate opening the door.

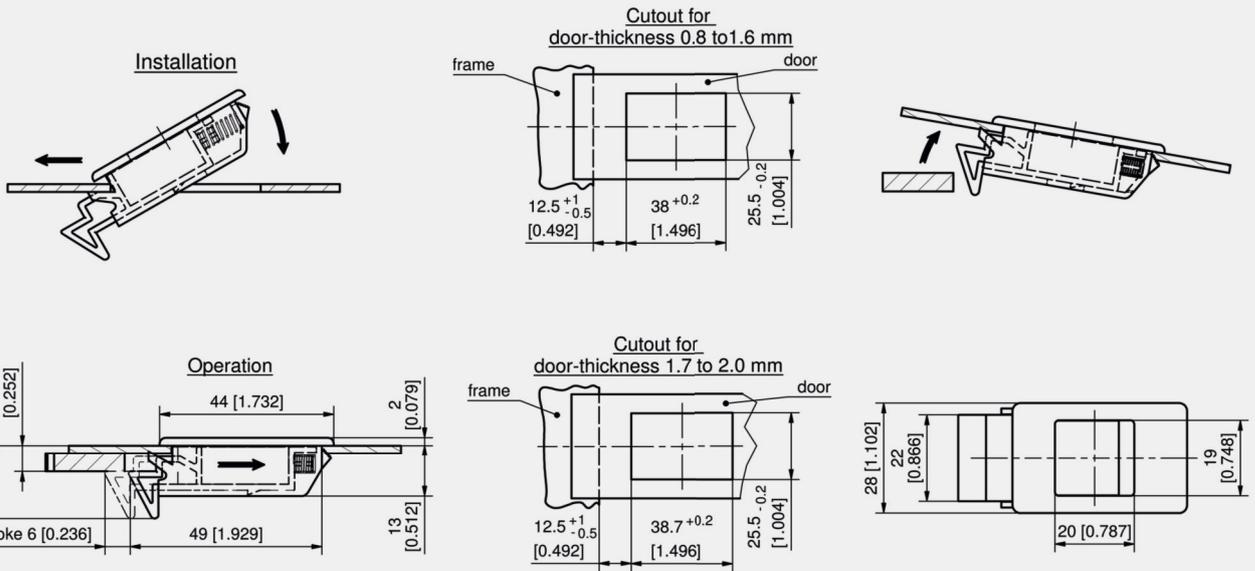
**Material and surface**

**Slam bolt and housing:** PA, black

**Spring:** stainless steel

**Note**

Vibration-proof.



Snap-lock

| Part Number       | Installation type | Door-thickness (S) |
|-------------------|-------------------|--------------------|
| 282-9001.00-00000 | tool-less         | 0,8-2,0            |

**Features**

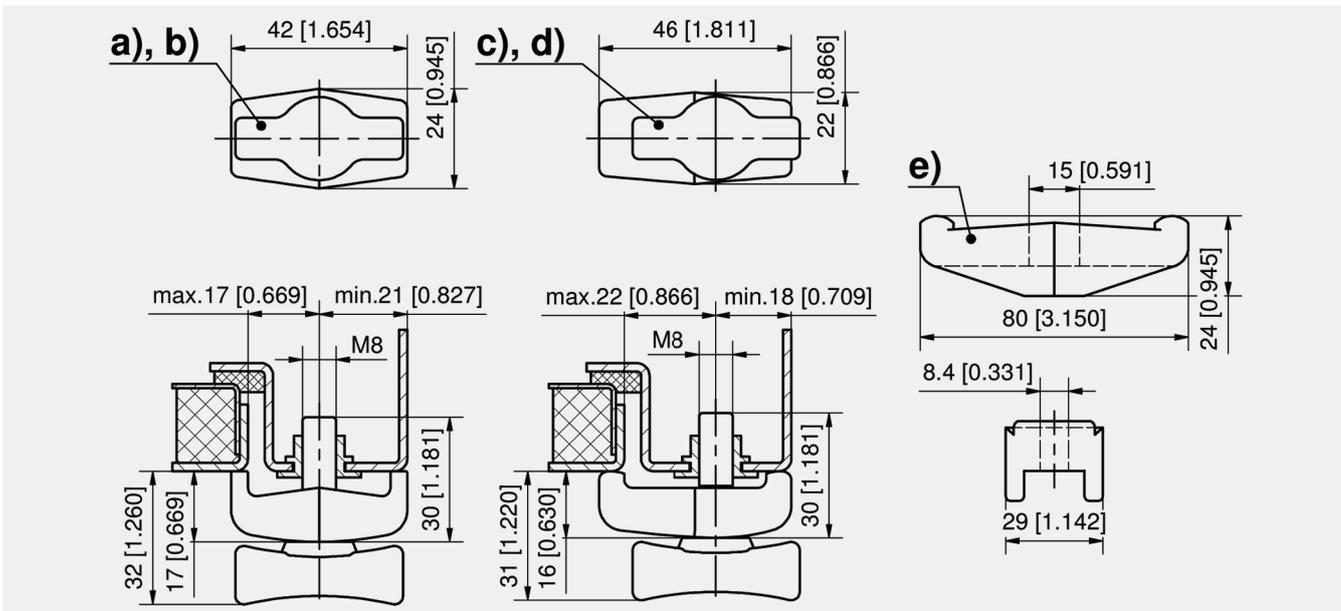
- Application in air conditioning technology.
- b) and d) captive by O-ring.

**Material and surface**

**Bridge clamp:** PA, black  
**Tommy screw:** PA, black / steel, zinc plated



**RoHS  
WEEE**



**Bridge clamp**

|    | Part Number       | Installation type | Version       | Variant   |
|----|-------------------|-------------------|---------------|---|
| a) | 214-9002.00-00000 | screw-on          |               | symmetrical with screw M8                         |
| b) | 214-9002.00-00001 | screw-on          | captive       | symmetrical with screw M8                         |
| c) | 214-9003.00-00000 | screw-on          |               | asymmetrical with screw M8                        |
| d) | 214-9003.00-00001 | screw-on          | captive       | asymmetrical with screw M8                        |
| e) | 214-0103.03-00000 | screw-on          | for screws M8 | symmetrical and reinforced for clamping two doors |

RoHS  
WEEE



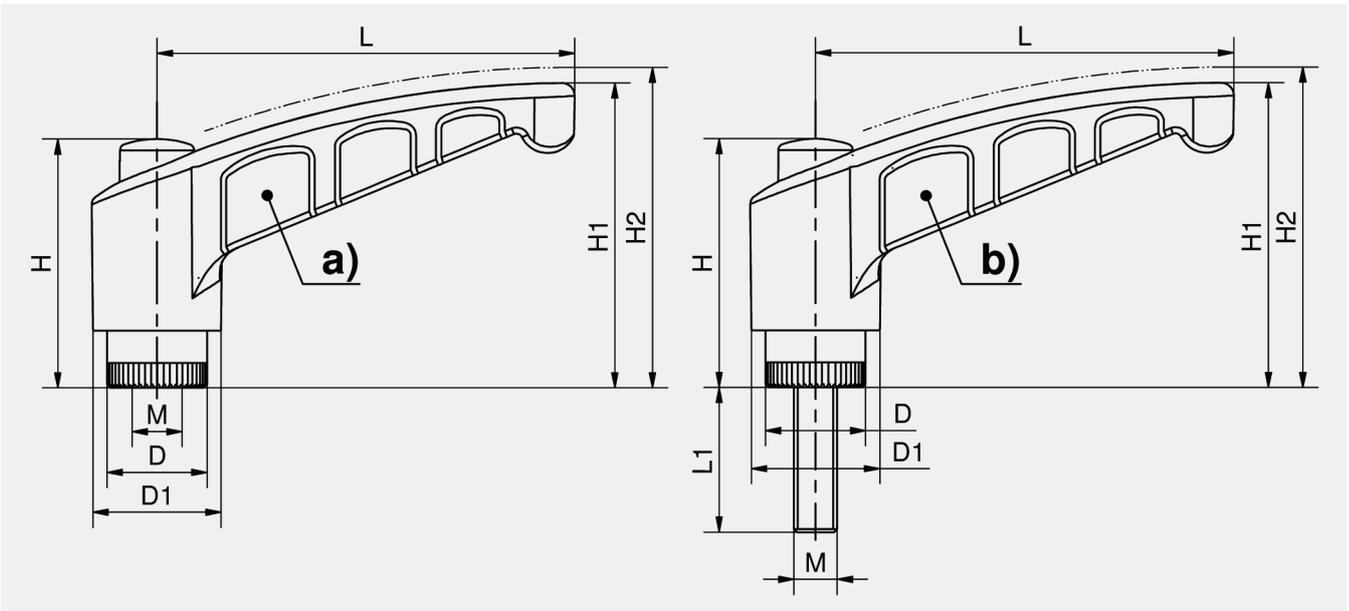
Secure and tool-less clamping of components.

**Features**

- Perfect adjustment option to reach the best clamping position by pressing down the push button.
- Automatic reset of the handle after releasing the button.

**Material and surface**

- Handle:** PA, black
- Bush:** brass
- Stud:** steel, zinc plated



Adjustable clamping lever with internal thread

|    | Part Number       | M   | L mm / inch | D mm / inch | D1 mm / inch | H mm / inch | H1 mm / inch | H2 mm / inch |
|----|-------------------|-----|-------------|-------------|--------------|-------------|--------------|--------------|
| a) | 214-9101.00-00000 | M5  | 45 / 1.772  | 12 / 0.472  | 15 / 0.591   | 29 / 1.142  | 34 / 1.339   | 37 / 1.457   |
| a) | 214-9102.00-00000 | M6  | 45 / 1.772  | 12 / 0.472  | 15 / 0.591   | 29 / 1.142  | 34 / 1.339   | 37 / 1.457   |
| a) | 214-9103.00-00000 | M8  | 65 / 2.560  | 16 / 0.630  | 20 / 0.787   | 36 / 1.417  | 45 / 1.772   | 48 / 1.890   |
| a) | 214-9104.00-00000 | M10 | 80 / 3.150  | 19 / 0.748  | 23 / 0.906   | 46 / 1.811  | 56 / 2.205   | 59 / 2.323   |

Adjustable clamping lever with threaded stud

|    | Part Number       | M   | L mm / inch | L1 mm / inch | D mm / inch | D1 mm / inch | H mm / inch | H1 mm / inch | H2 mm / inch |
|----|-------------------|-----|-------------|--------------|-------------|--------------|-------------|--------------|--------------|
| b) | 214-9101.00-00510 | M5  | 45 / 1.772  | 10 / 0.394   | 12 / 0.472  | 15 / 0.591   | 29 / 1.142  | 34 / 1.339   | 37 / 1.457   |
| b) | 214-9102.00-00620 | M6  | 45 / 1.772  | 20 / 0.787   | 12 / 0.472  | 15 / 0.591   | 29 / 1.142  | 34 / 1.339   | 37 / 1.457   |
| b) | 214-9102.00-00625 | M6  | 45 / 1.772  | 25 / 0.984   | 12 / 0.472  | 15 / 0.591   | 29 / 1.142  | 34 / 1.339   | 37 / 1.457   |
| b) | 214-9103.00-00820 | M8  | 65 / 2.560  | 20 / 0.787   | 16 / 0.630  | 20 / 0.787   | 36 / 1.417  | 45 / 1.772   | 48 / 1.890   |
| b) | 214-9103.00-00825 | M8  | 65 / 2.560  | 25 / 0.984   | 16 / 0.630  | 25 / 0.984   | 36 / 1.417  | 45 / 1.772   | 48 / 1.890   |
| b) | 214-9103.00-00830 | M8  | 65 / 2.560  | 30 / 1.181   | 16 / 0.630  | 20 / 0.787   | 36 / 1.417  | 45 / 1.772   | 48 / 1.890   |
| b) | 214-9104.00-01020 | M10 | 80 / 3.150  | 20 / 0.787   | 19 / 0.748  | 23 / 0.906   | 46 / 1.811  | 56 / 2.205   | 59 / 2.323   |
| b) | 214-9104.00-01025 | M10 | 80 / 3.150  | 25 / 0.984   | 19 / 0.748  | 23 / 0.906   | 46 / 1.811  | 56 / 2.205   | 59 / 2.323   |
| b) | 214-9104.00-01030 | M10 | 80 / 3.150  | 30 / 1.181   | 19 / 0.748  | 23 / 0.906   | 46 / 1.811  | 56 / 2.205   | 59 / 2.323   |

Lever-actuated compression latch clip-in SNAP-LINE.

**Features**

- Release = lift lever and turn.
- Close = turn and fold lever down.
- When closed, the cam is held in place using detents.
- **SNAP-LINE version**
- The latch comes pre-assembled and can be installed into the cutout.
- (S) = 5 / 0.197 to 5.5 mm / 0.217
- **Screw-on version.**
- With the bridge and a M5 x 20 countersunk screw, a (S) -dimension of 0 to 3.5 mm / 0 to 0.138 inch can be achieved.

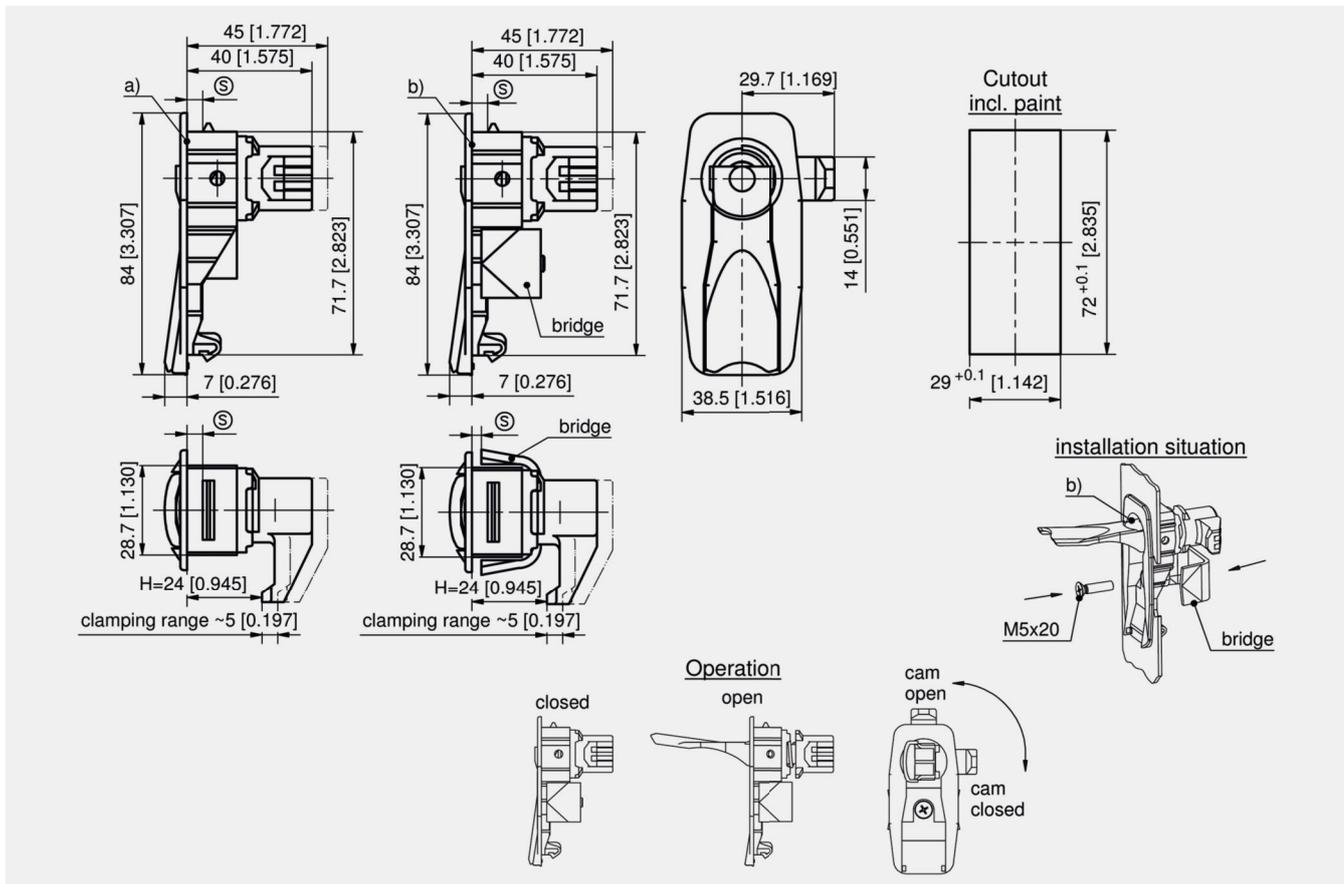
**Material and surface**

- Compression latch:** PA
- Spring:** spring steel
- Pin, bridge and screw:** steel, zinc plated



RoHS  
WEEE

SNAP



**Compression Latch, SNAP-LINE**

|    | Part Number       | Installation type | Compression | Clamping range | H-dimension | Version    |
|----|-------------------|-------------------|-------------|----------------|-------------|------------|
| a) | 282-9008.00-00000 | tool-less         | Yes         | 5              | 24          | left door  |
| a) | 282-9009.00-00000 | tool-less         | Yes         | 5              | 24          | right door |

**Compression Latch, screw-on version**

|    | Part Number       | Installation type | Compression | Clamping range | H-dimension | Version    |
|----|-------------------|-------------------|-------------|----------------|-------------|------------|
| b) | 282-9010.00-00000 | screw-on          | Yes         | 5              | 24          | left door  |
| b) | 282-9011.00-00000 | screw-on          | Yes         | 5              | 24          | right door |

SNAP

RoHS  
WEEE



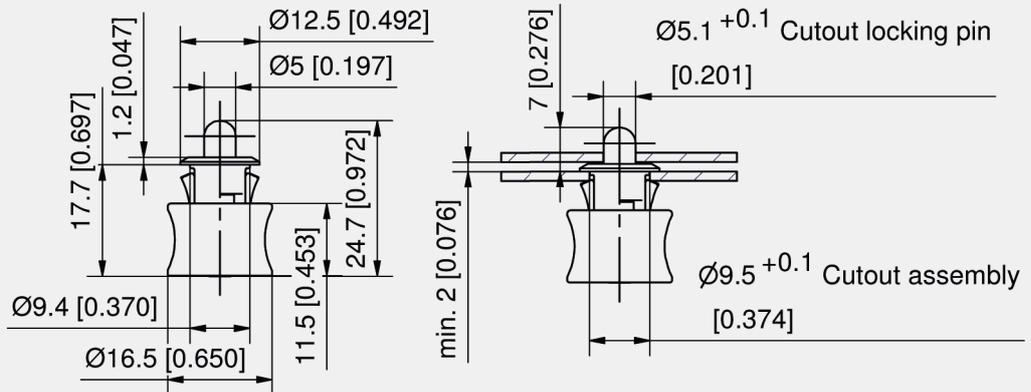
Lids and covers can be stopped and locked at predetermined positions.

**Features**

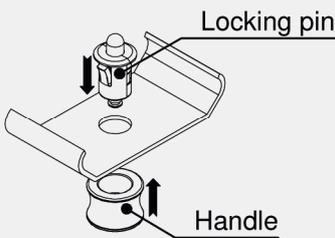
- Locking pin with spring-loaded handle.
- Installed using a simple push into the cutout.
- Can be used as a locking device for drawers.
- Large, ergonomically designed handle for ease of use.
- Also available as concealed hinge, see product-system 4-393SL.

**Material and surface**

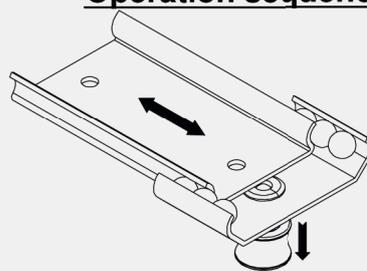
- Housing:** PA, black
- Handle:** PA, green
- Pin:** steel, zinc plated
- Spring:** steel, zinc plated



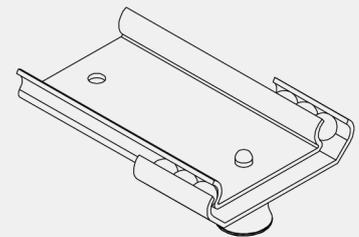
**Operation sequence**



To install, the locking pin is simply pushed into the cutout without the use of tools or hardware. The handle slides over the housing and secures permanently into the groove of the pin.



To lock, the spring-loaded handle is released. To loosen, the spring-loaded handle is pulled out.



The pin catches in the pre-punched holes to lock in place.

Locking pin with handle

| Part Number       | Installation type | Clamping range |
|-------------------|-------------------|----------------|
| 245-9304.00-00000 | tool-less         | 1,4 – 1,6      |

**Features**

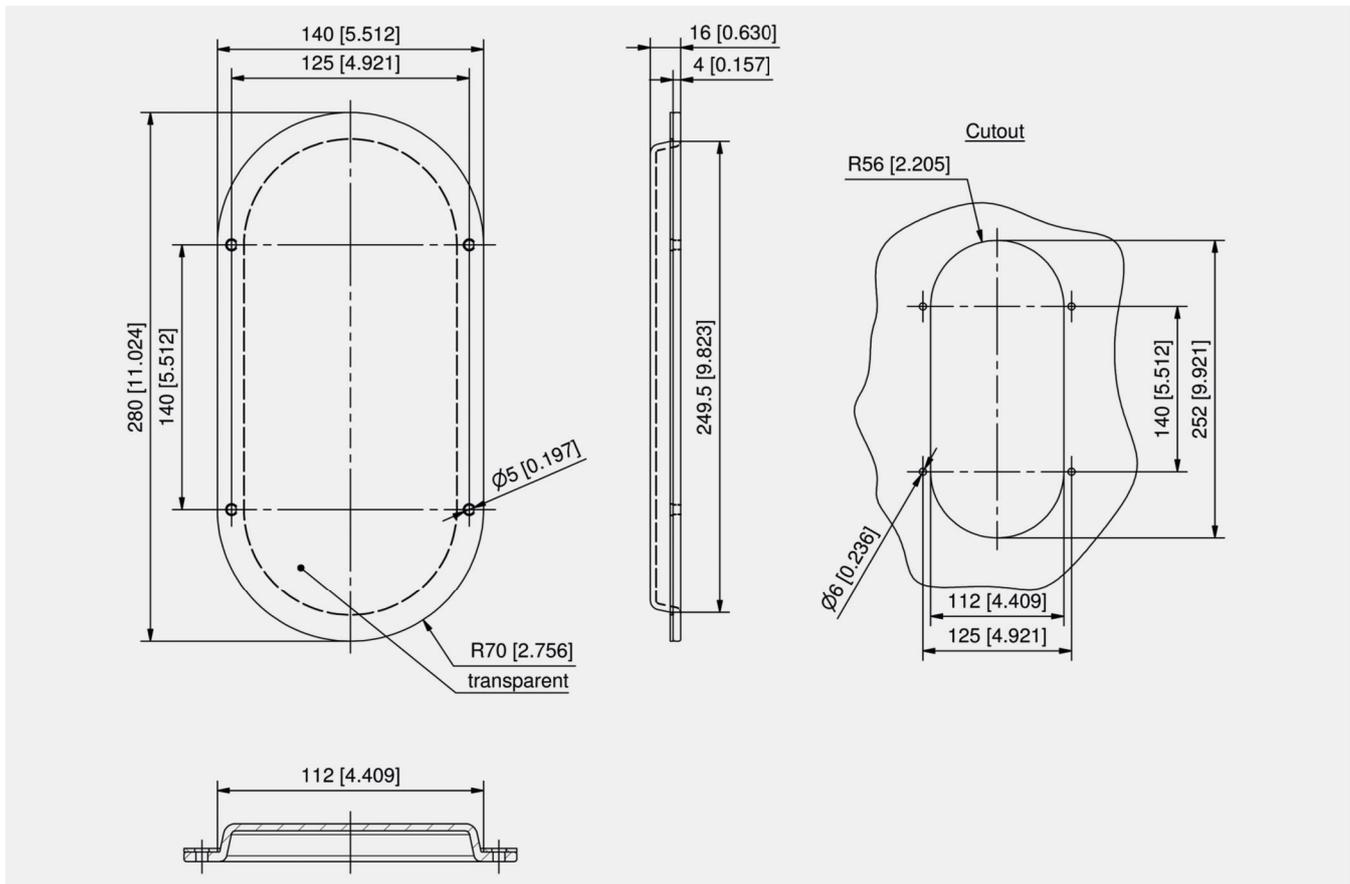
- Self-adhesive seal.
- 4 holes for flat head screw M5.

**Material and surface**

**Window:** polycarbonate PC  
**Self-adhesive seal:** EPDM, cell sponge rubber

IP 65

RoHS WEEE



**Window**

| Part Number       | Shape | Fastening              | Cutout    | Width | Height |
|-------------------|-------|------------------------|-----------|-------|--------|
| 251-9101.00-00000 | oval  | self-adhesive/screw-on | 112 x 252 | 140   | 280    |

RoHS  
WEEE



Locking bar system for heavy doors.

**Features**

- Both ends come ready to be connected to the handle mechanism.
- By cutting the bar, the handle mechanism can be installed in any position.

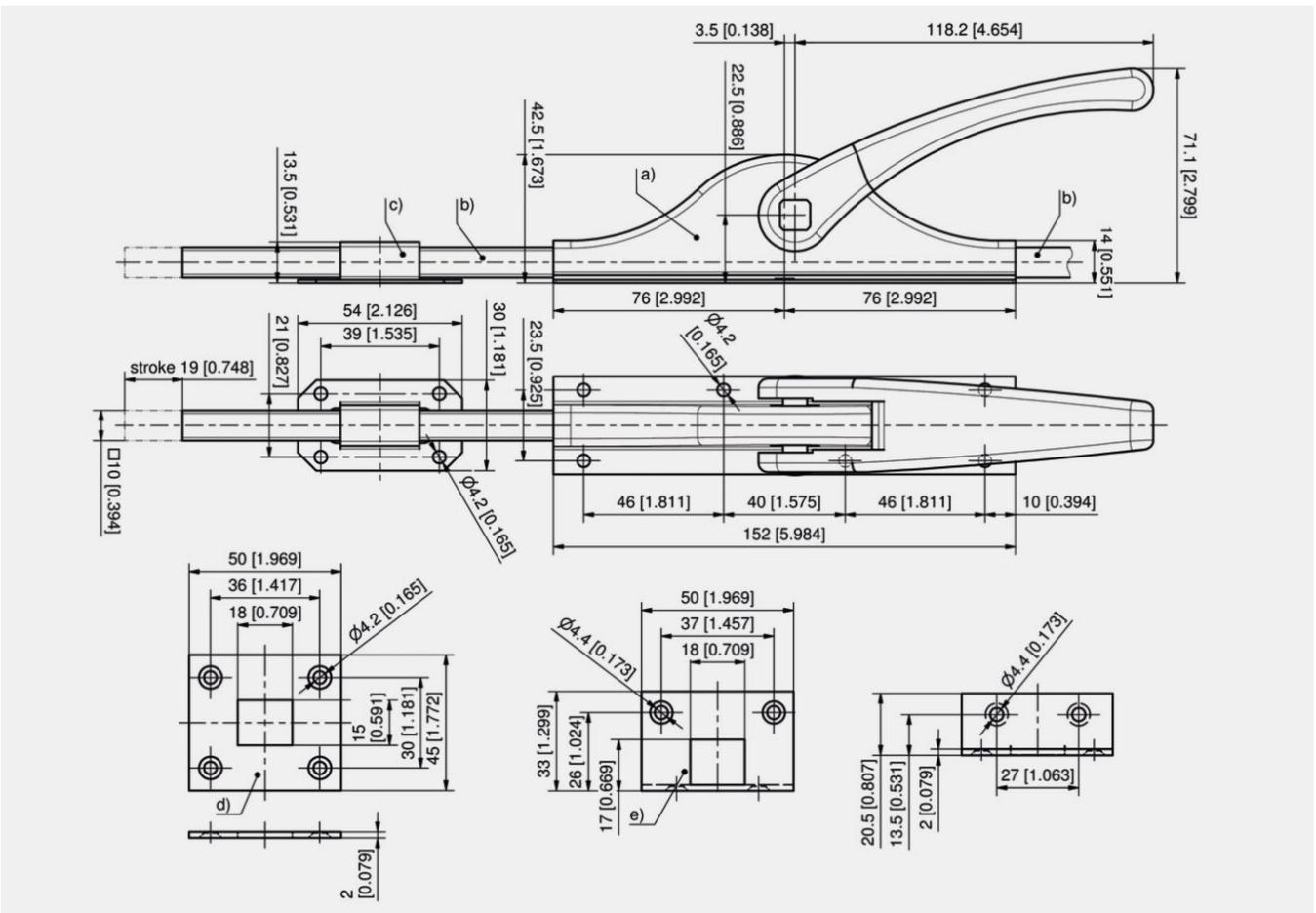
**Material and surface**

**Handle mechanism with base plate, bar guides and bars:**  
steel, zinc plated

**Note**

Included in the scope of delivery:  
Locking bar system incl. base plate and 2 rod guides

Please order separately:  
Rod one-piece



Locking bar system incl. base plate and 2 rod guides

|    | Part Number       | Installation type                          | Multi-point latch |
|----|-------------------|--|-------------------|
| a) | 249-9005.00-00000 | screw-on                                   | Yes               |
| ✱  | 249-0502.00-00000 | Rod for locking bar system, 2000 mm        |                   |
|    | 249-0503.00-00000 | Rod for locking bar system, 2500 mm        |                   |
|    | 249-0504.00-00000 | Rod for locking bar system, 3000 mm        |                   |
|    | 249-0401.00-00000 | Rod guide                                  |                   |
|    | 249-0201.00-00000 | Bottom plate, straight                     |                   |
|    | 249-0301.00-00000 | Bottom plate, angled                       |                   |
|    | 249-0601.00-00000 | Bar latching bushing for concrete, 2 parts |                   |

Locking bar system for heavy doors.

**RoHS  
WEEE**

**Features**

- Both ends come ready to be connected to the handle mechanism.
- By cutting the bar, the handle mechanism can be installed in any position.

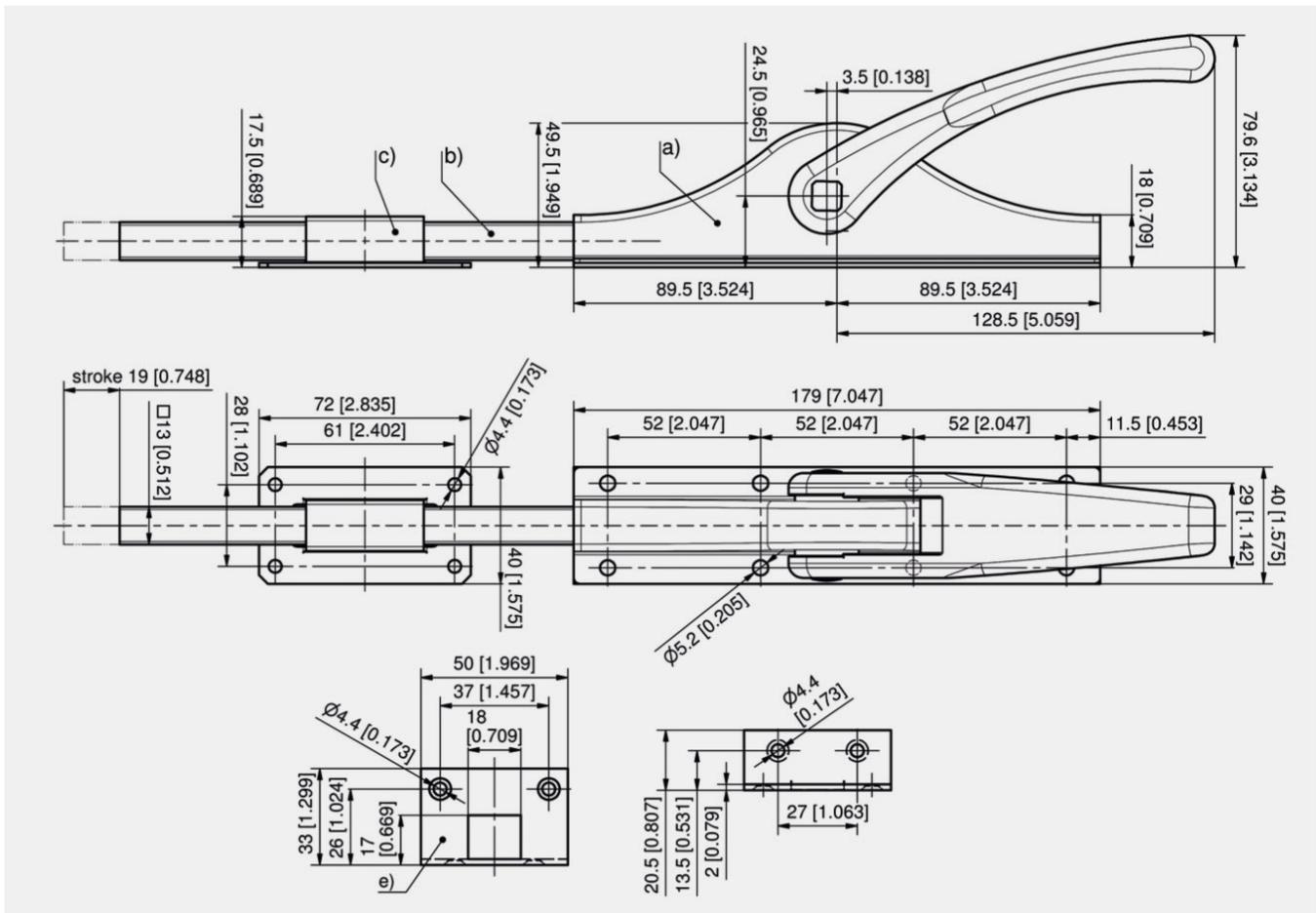
**Material and surface**

**Handle:** aluminium  
**Bolt box, base plate, bar guides and bars:** steel, zinc plated

**Note**

Included in the scope of delivery:  
 Locking bar system incl. base plate and 3 rod guides

Please order separately:  
 Rod one-piece



Locking bar system incl. base plate and 3 rod guides

| Part Number          | Installation type                          | Multi-point latch |
|----------------------|--|-------------------|
| a) 249-9105.00-00000 | screw-on                                   | Yes               |
| * 249-0505.00-00000  | Rod for locking bar system, 2000 mm        |                   |
| 249-0506.00-00000    | Rod for locking bar system, 2500 mm        |                   |
| 249-0507.00-00000    | Rod for locking bar system, 3000 mm        |                   |
| 249-0402.00-00000    | Rod guide                                  |                   |
| 249-0202.00-00000    | Bottom plate, straight                     |                   |
| 249-0301.00-00000    | Bottom plate, angled                       |                   |
| 249-0602.00-00000    | Bar latching bushing for concrete, 2 parts |                   |

RoHS  
WEEE



Locking bar system for heavy doors.

**Features**

- Both ends come ready to be connected to the handle mechanism.
- By cutting the bar, the handle mechanism can be installed in any position.

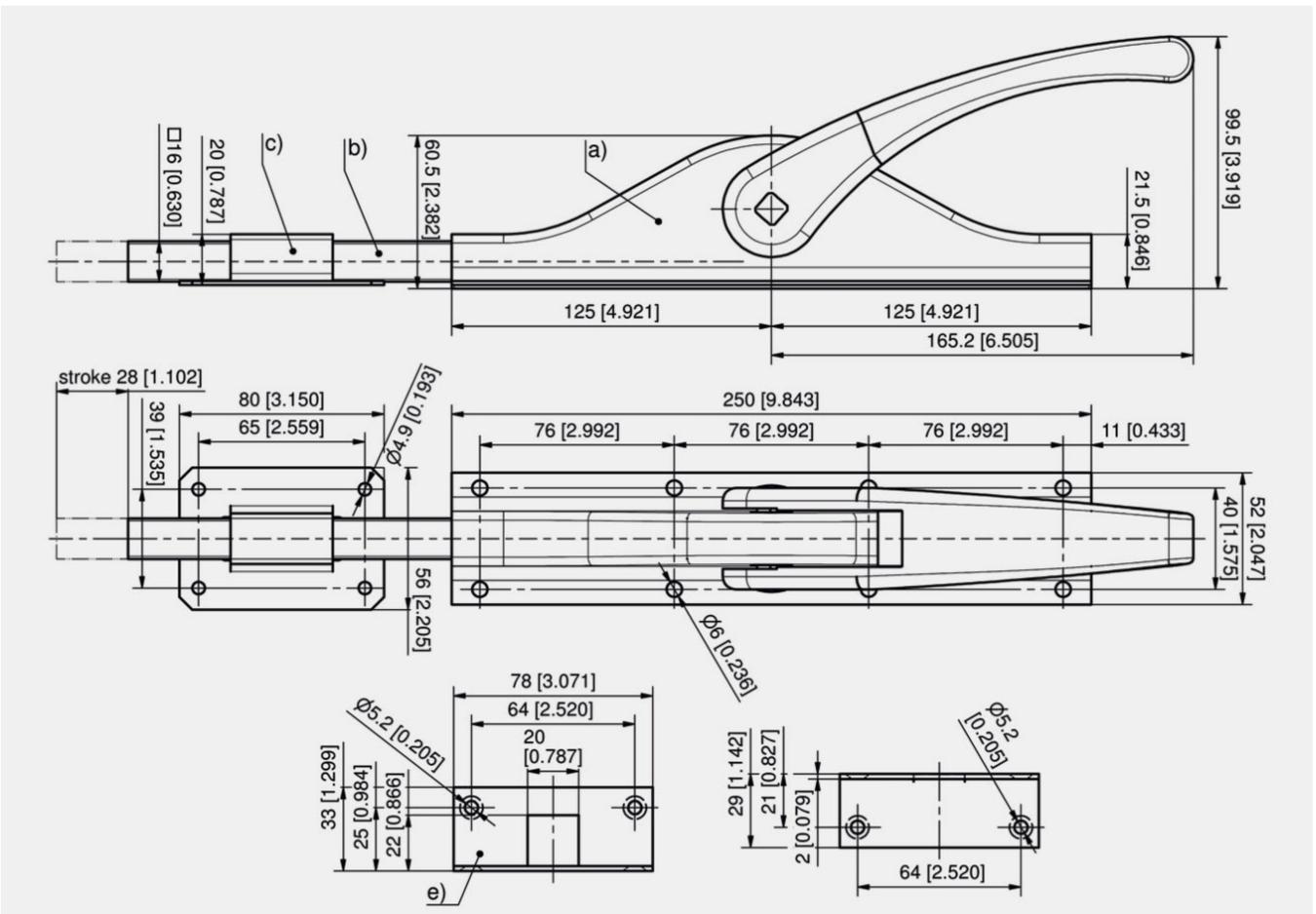
**Material and surface**

**Handle:** aluminium  
**Bolt box, base plate, bar guides and bars:** steel, zinc plated

**Note**

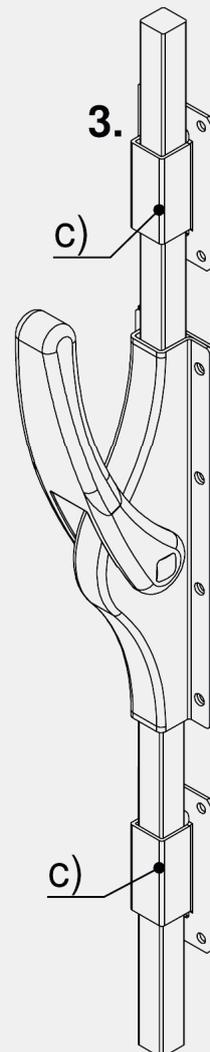
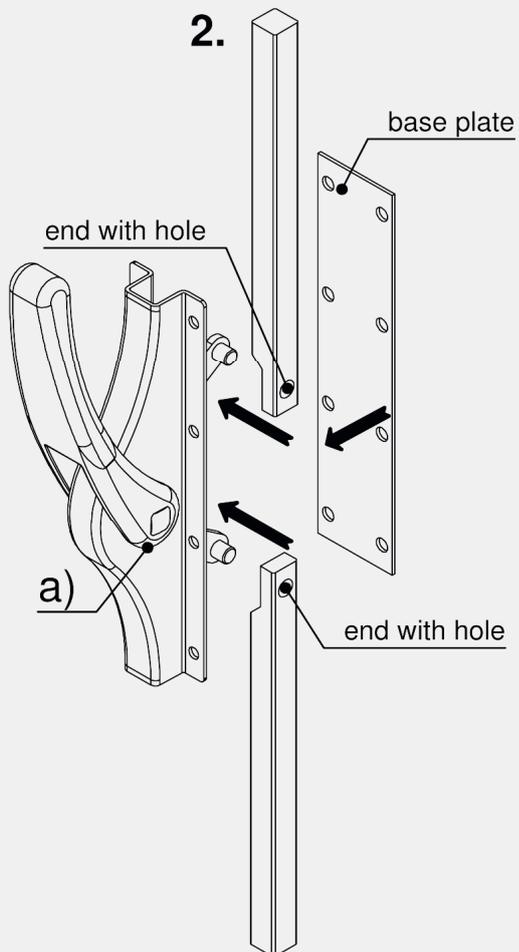
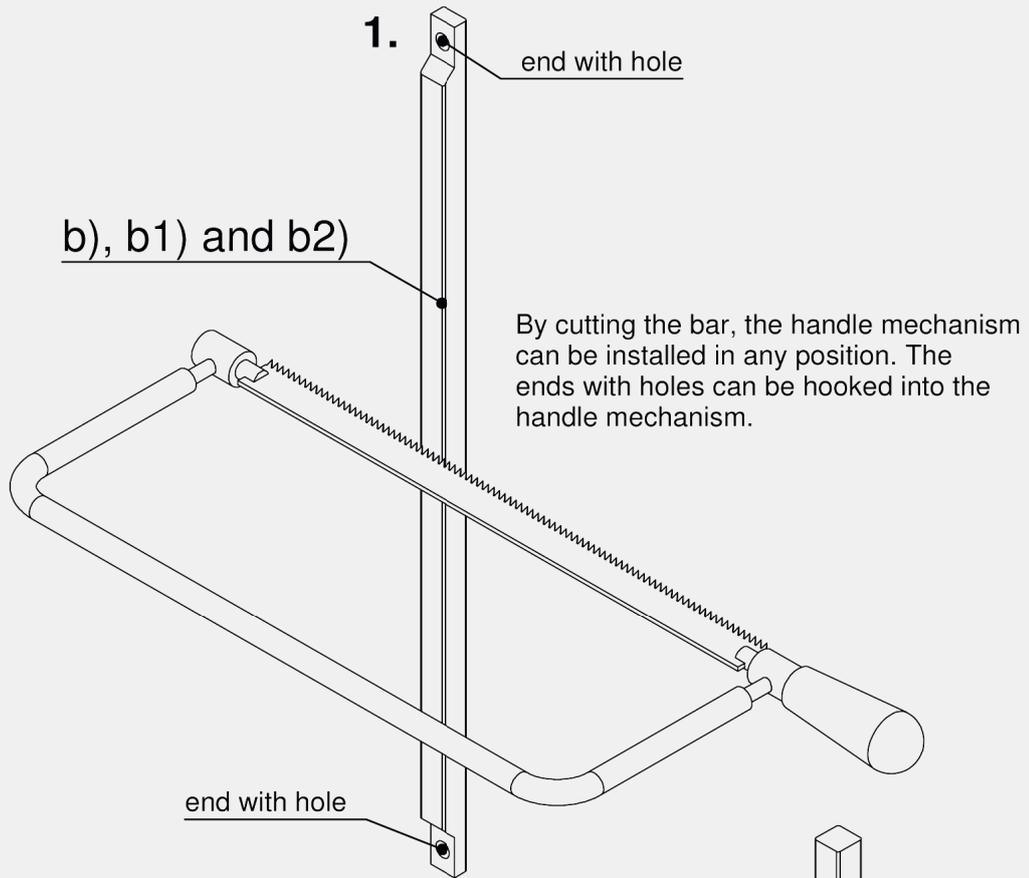
Included in the scope of delivery:  
 Locking bar system incl. base plate and 4 rod guides

Please order separately:  
 Rod one-piece



Locking bar system incl. base plate and 4 rod guides

| Part Number          | Installation type                          | Multi-point latch |
|----------------------|--|-------------------|
| a) 249-9205.00-00000 | screw-on                                   | Yes               |
| * 249-0508.00-00000  | Rod for locking bar system, 2000 mm        |                   |
| * 249-0509.00-00000  | Rod for locking bar system, 2500 mm        |                   |
| * 249-0510.00-00000  | Rod for locking bar system, 3000 mm        |                   |
| * 249-0403.00-00000  | Rod guide                                  |                   |
| * 249-0203.00-00000  | Bottom plate, straight                     |                   |
| * 249-0304.00-00000  | Bottom plate, angled                       |                   |
| * 249-0603.00-00000  | Bar latching bushing for concrete, 2 parts |                   |



- 
- DIN  
61373
- IP  
65
- RoHS  
WEEE



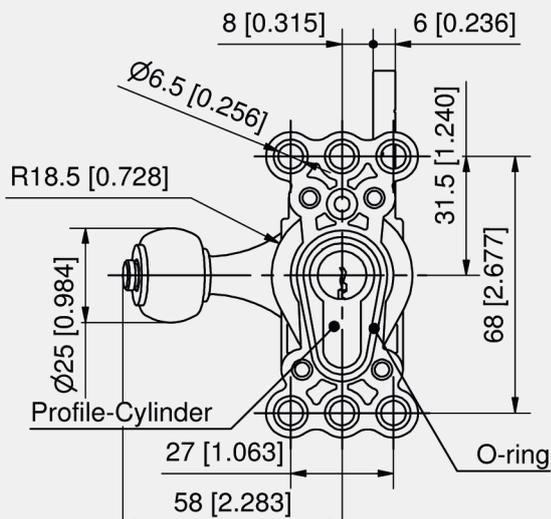
This patented unique compression latch PHZ combines design and functionality and provides a smooth closing action.

**Features**

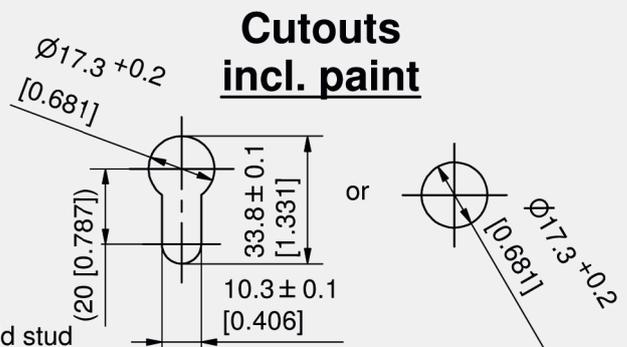
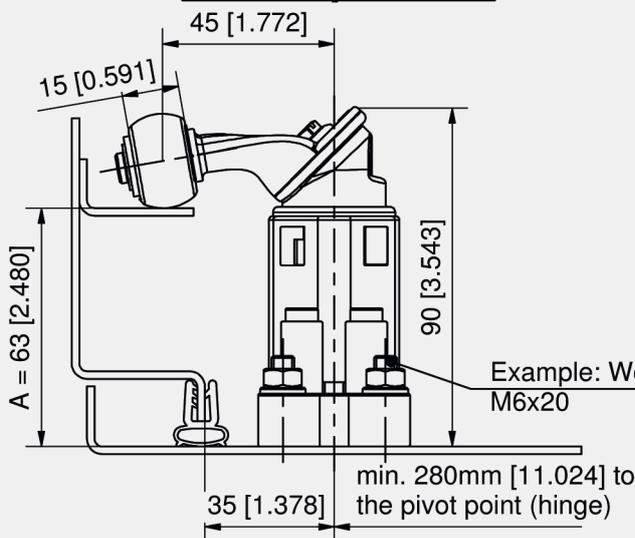
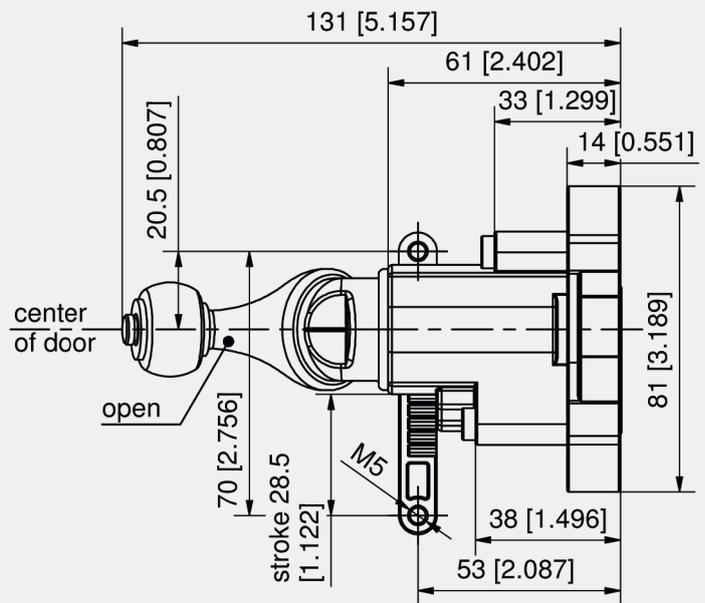
- Compression 10-20 mm.
- No protruding handle or knob.
- The key inserted into the profile-cylinder opens and closes the lock according to DIN 18252.
- Closing- and opening operation 180°.
- The key is removable only in the locked position.
- Version DIN RH (as shown). Version DIN LH on request.
- 1300N of force at the latching point.

**Material and surface**

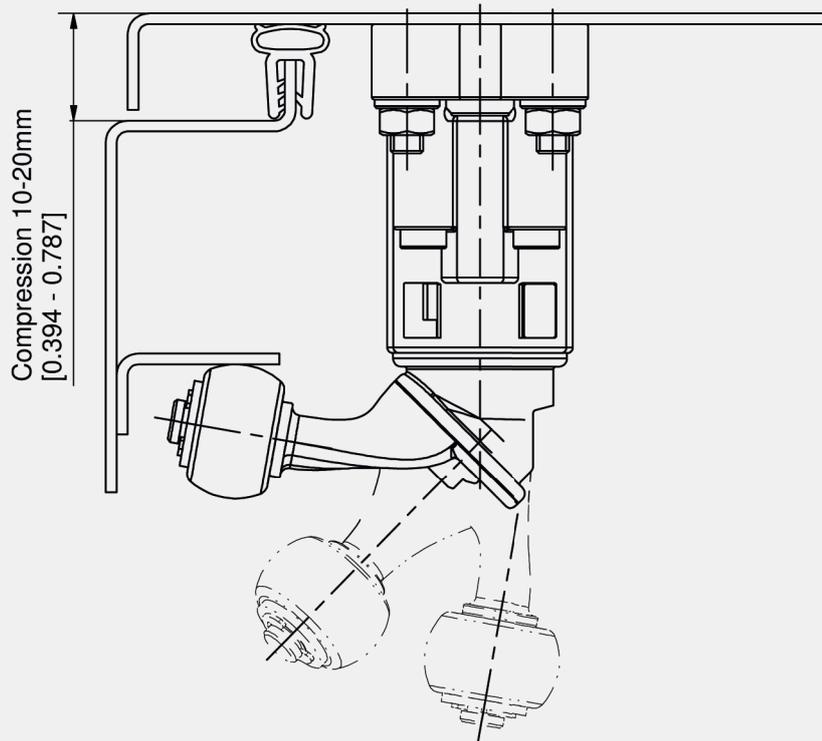
- Housing, housing cover, slider and cam:** zinc die, zinc plated
- Roller:** POM, black
- Washer, retaining clip and fastening screws:** steel, zinc plated
- Shoulder bolt:** stainless steel
- Gear cover:** PA6, black
- O-rings:** NBR, black
- Flat external seal:** EPDM, black



**Example of application closed position**



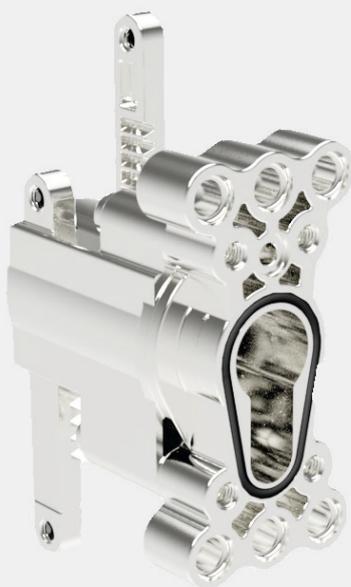
## Operation



### Compression latch PHZ (internal)

| Part Number       | Installation type | A-dimension                       | 1-point cam | Version     | Compression |
|-------------------|-------------------|-----------------------------------|-------------|-------------|-------------|
| 448-9112.00-00020 | screw-on          | 63                                | Yes         | with cam 20 | yes         |
| *                 | 211-9001.00-00000 | Profile-cylinder, keyed different |             |             |             |
|                   | 211-9002.00-00000 | Profile-cylinder, keyed alike     |             |             |             |

- 
- DIN 61373**
- 
- IP 65**
- RoHS WEEE**



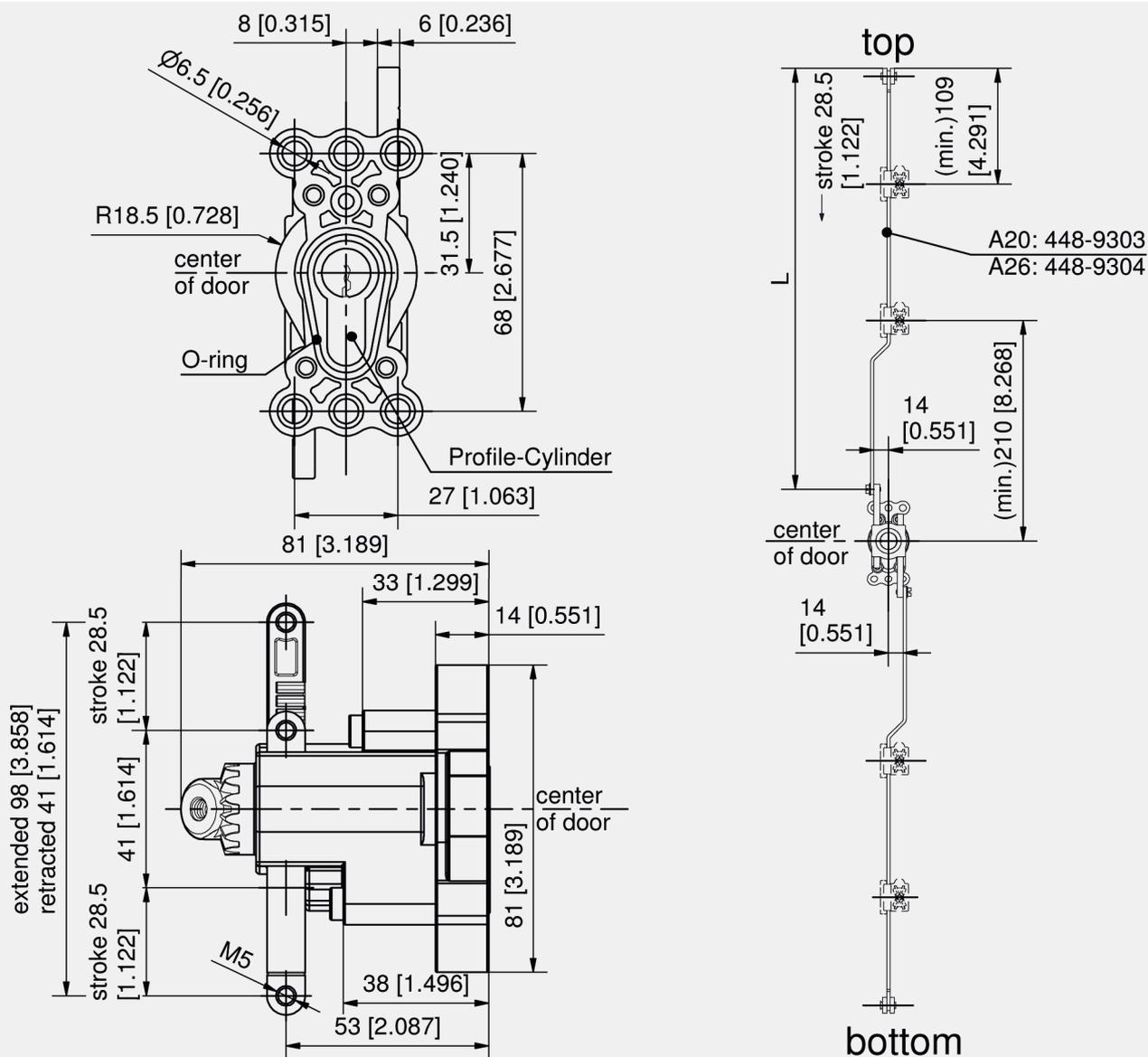
This patented unique 2-point latch PHZ combines design and functionality and provides a smooth closing action.

**Features**

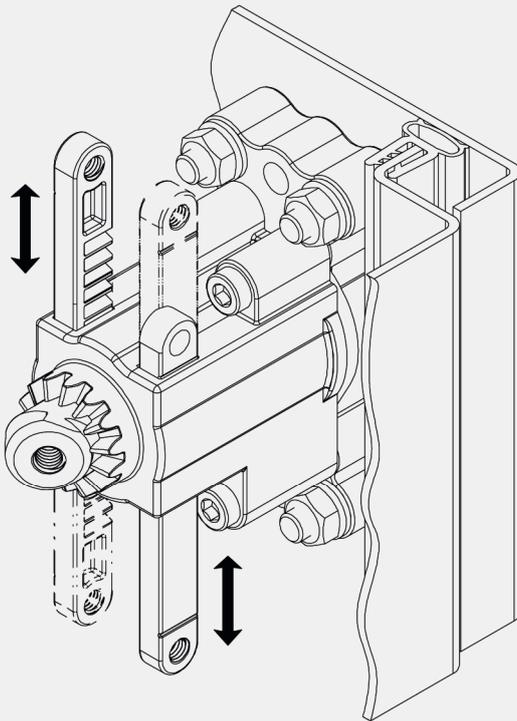
- No protruding handle or knob.
- Perfectly suited to control flat rods.
- The key inserted into the profile-cylinder opens and closes the lock according to DIN 18252.
- Closing- and opening operation 180°.
- The key is removable only in the locked position.
- IP65 according to DIN EN 60529.
- Version DIN RH (as shown).  
Version DIN LH on request.

**Material and surface**

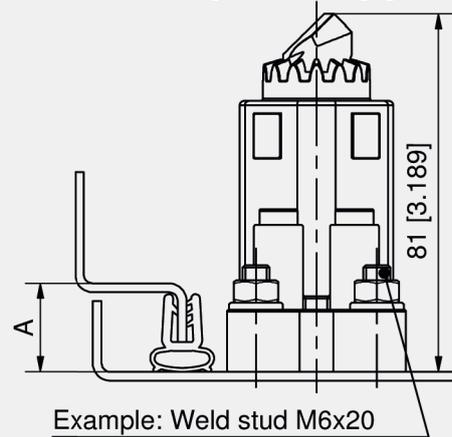
- Housing, housing cover and slider:** zinc die, zinc plated
- Screws:** steel, zinc plated
- O-rings:** NBR, black
- Flat external seal:** EPDM, black
- Flat rod:** steel, zinc plated



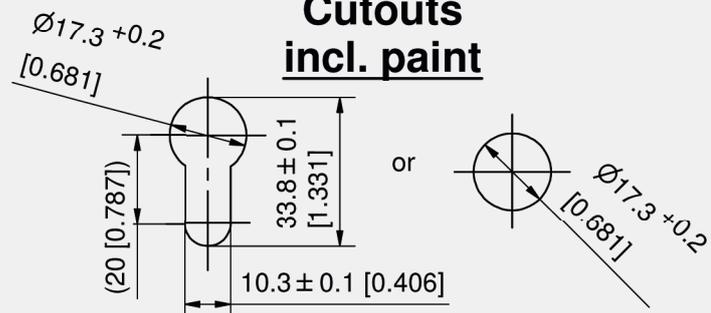
## Operation



## Example of application



### Cutouts incl. paint



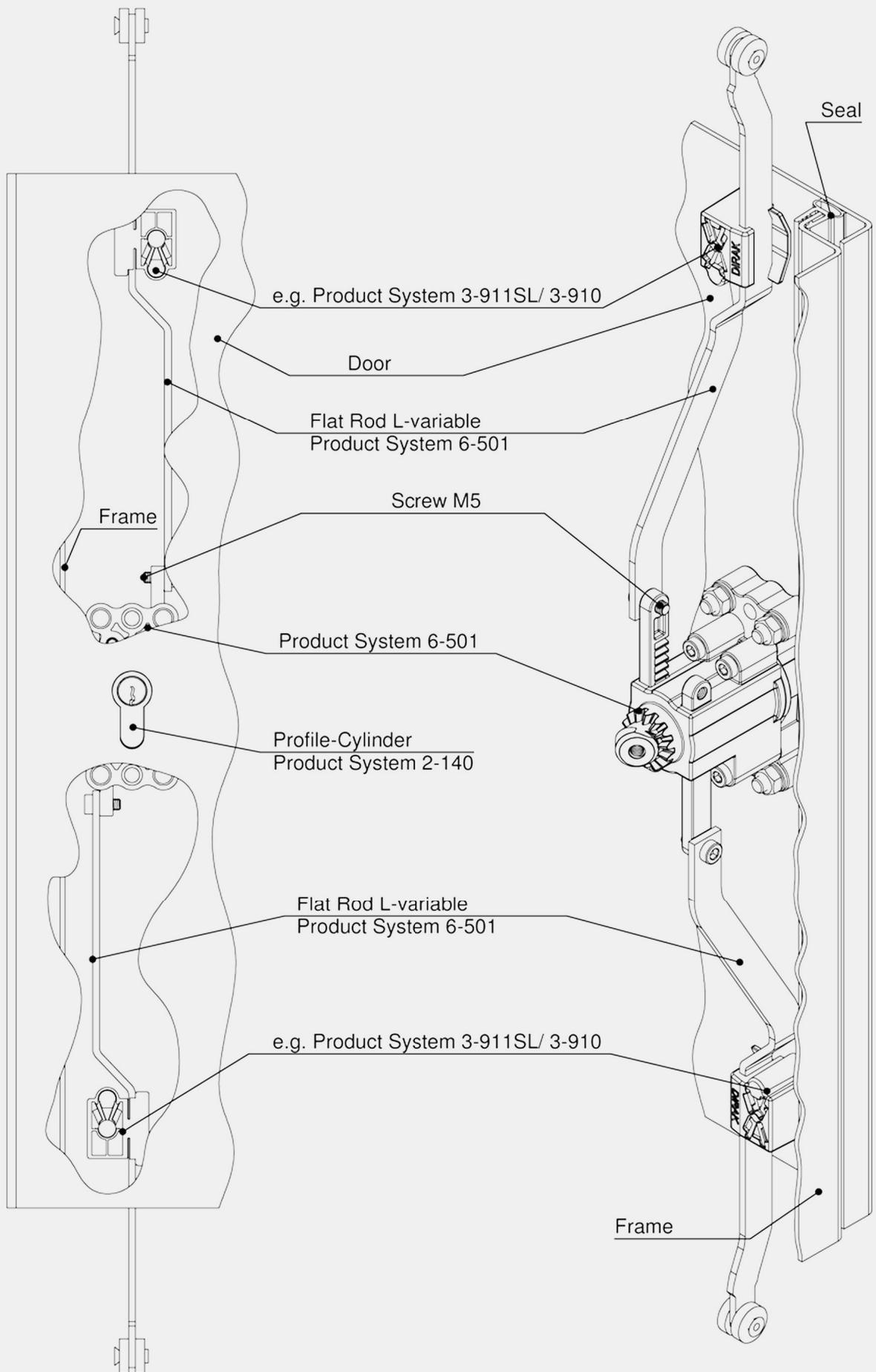
Rod formular:

$$L = \frac{\text{clearance of the cabinet} - 10\text{mm [0.394] (tolerance)} - 41 \text{ (Rod Latch System in retraced condition)}}{2}$$

### 2-point latch PHZ (internal)

| Part Number         | Multi-point latch | Version                           |
|---------------------|-------------------|-----------------------------------|
| 448-9119.00-00000   | Yes               | for flat rods                     |
| * 211-9001.00-00000 |                   | Profile-cylinder, keyed different |
| 211-9002.00-00000   |                   | Profile-cylinder, keyed alike     |
| 448-9303.00-Lxxmm   |                   | Flat rod A20, variable length     |
| 448-9304.00-Lxxmm   |                   | Flat rod A26, variable length     |

for 2-point latch PHZ 6-501 and flat rods with rollers





Compression Rod Latch  
on page 72.



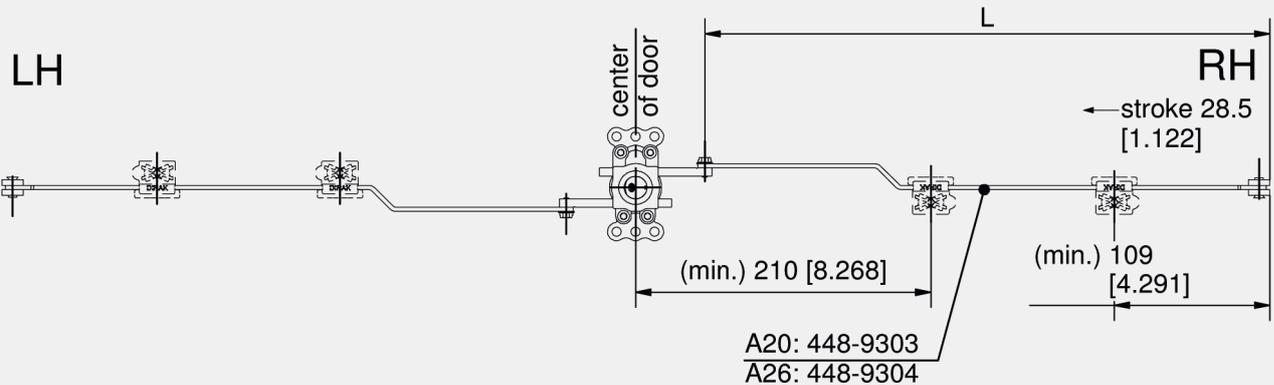
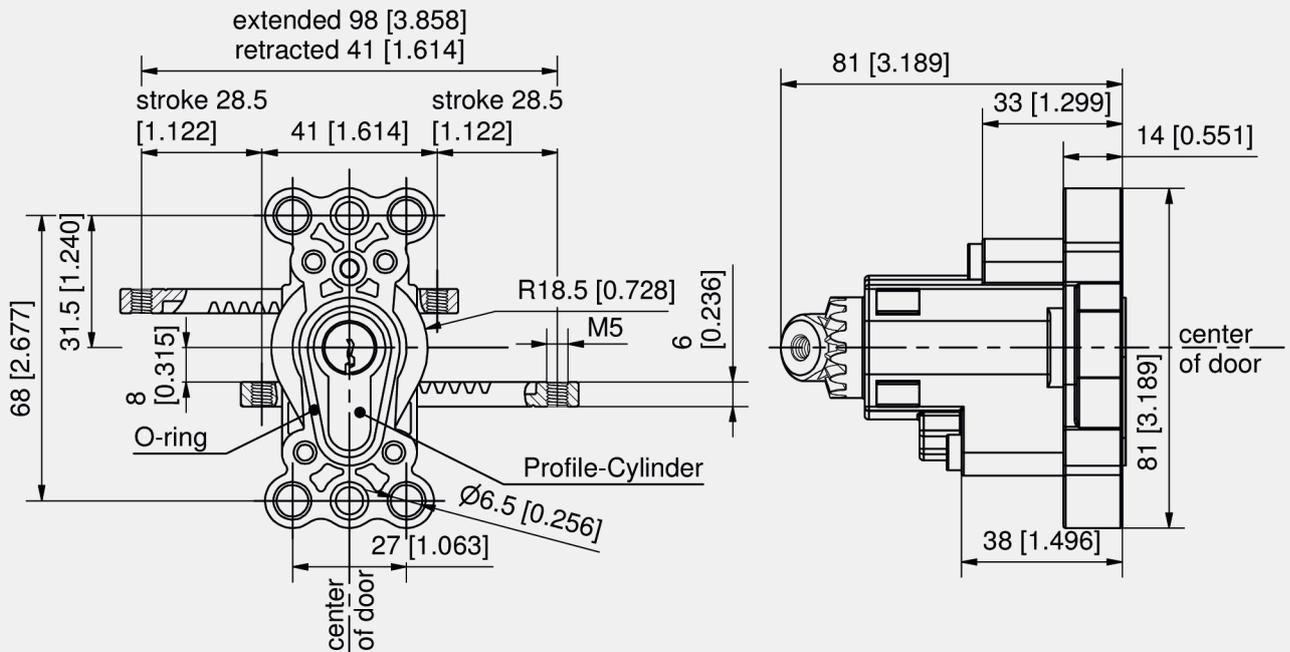
This patented unique 2-Point Latch PHZ combines design and functionality and provides a smooth closing action.

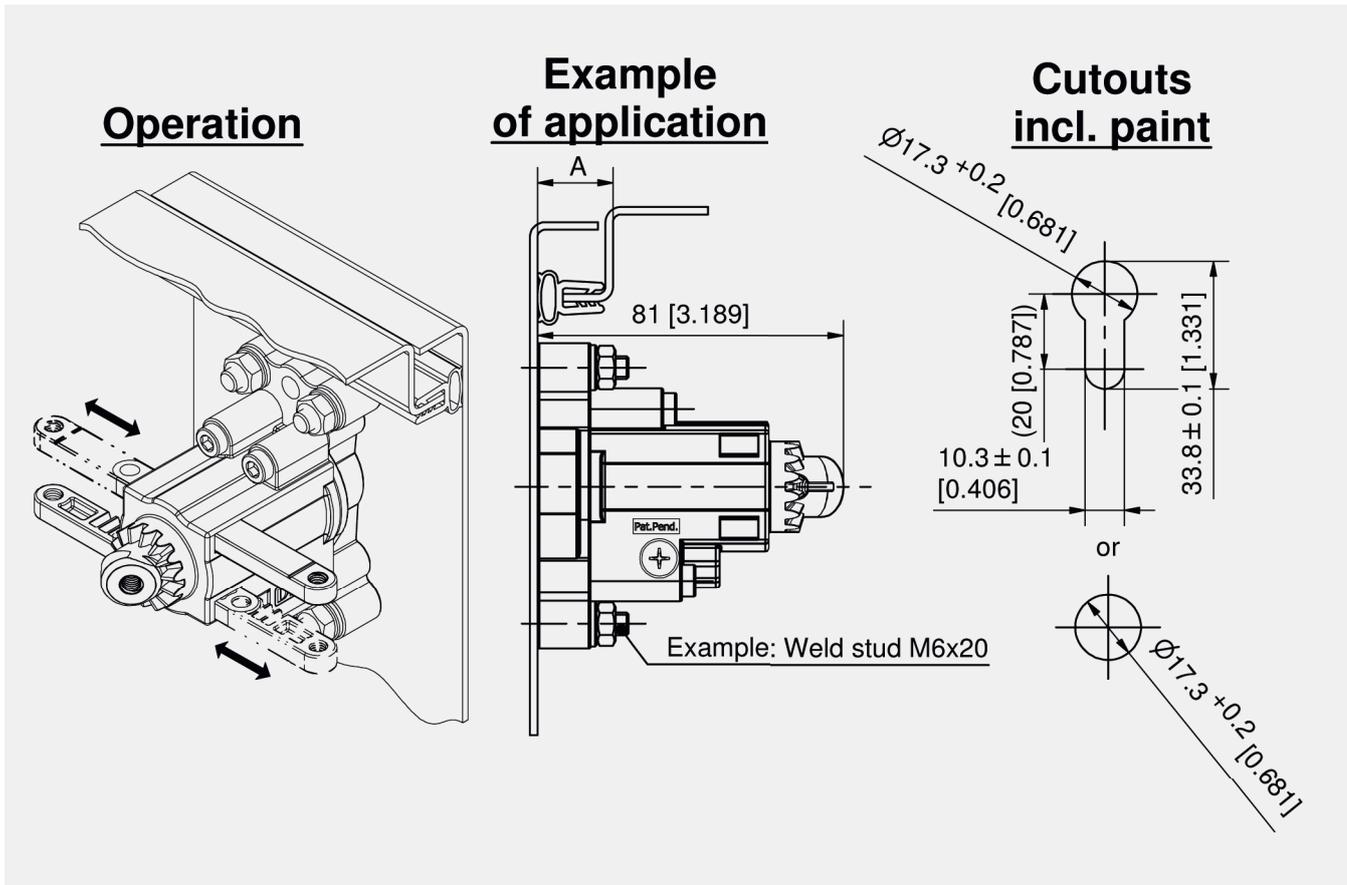
**Features**

- No protruding handle or knob.
- Perfectly suited to control flat rods.
- The key inserted into the profile-cylinder opens and closes the lock according to DIN 18252.
- Closing- and opening operation 180°.
- The key is removable only in the locked position.
- IP65 according to DIN EN 60529.
- Version DIN RH (as shown).  
Version DIN LH on request.

**Material and surface**

- Housing, housing cover and slider:** zinc die, zinc plated
- Screws:** steel, zinc plated
- O-rings:** NBR, black
- Flat external seal:** EPDM, black
- Flat rod:** steel, zinc plated

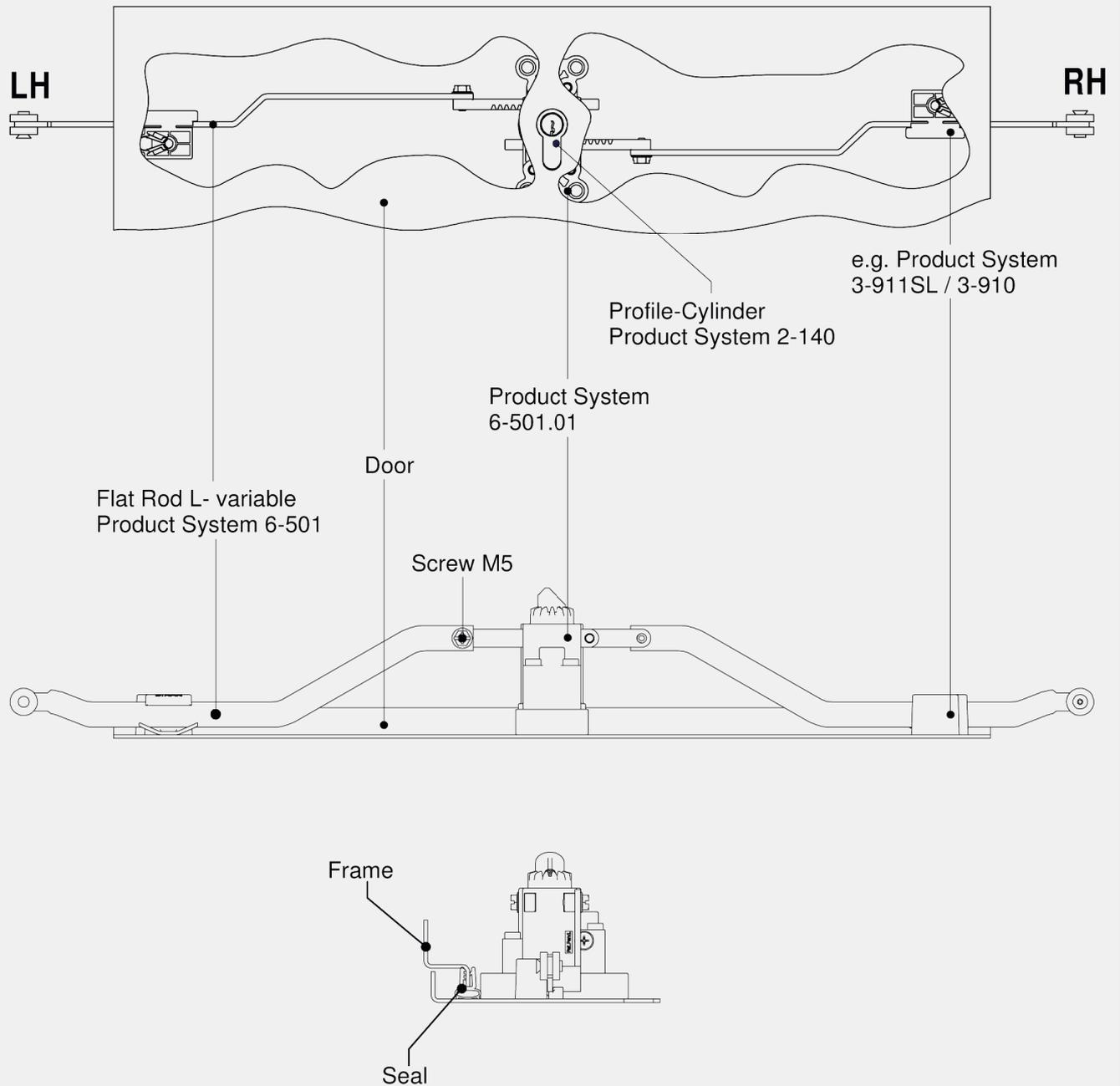


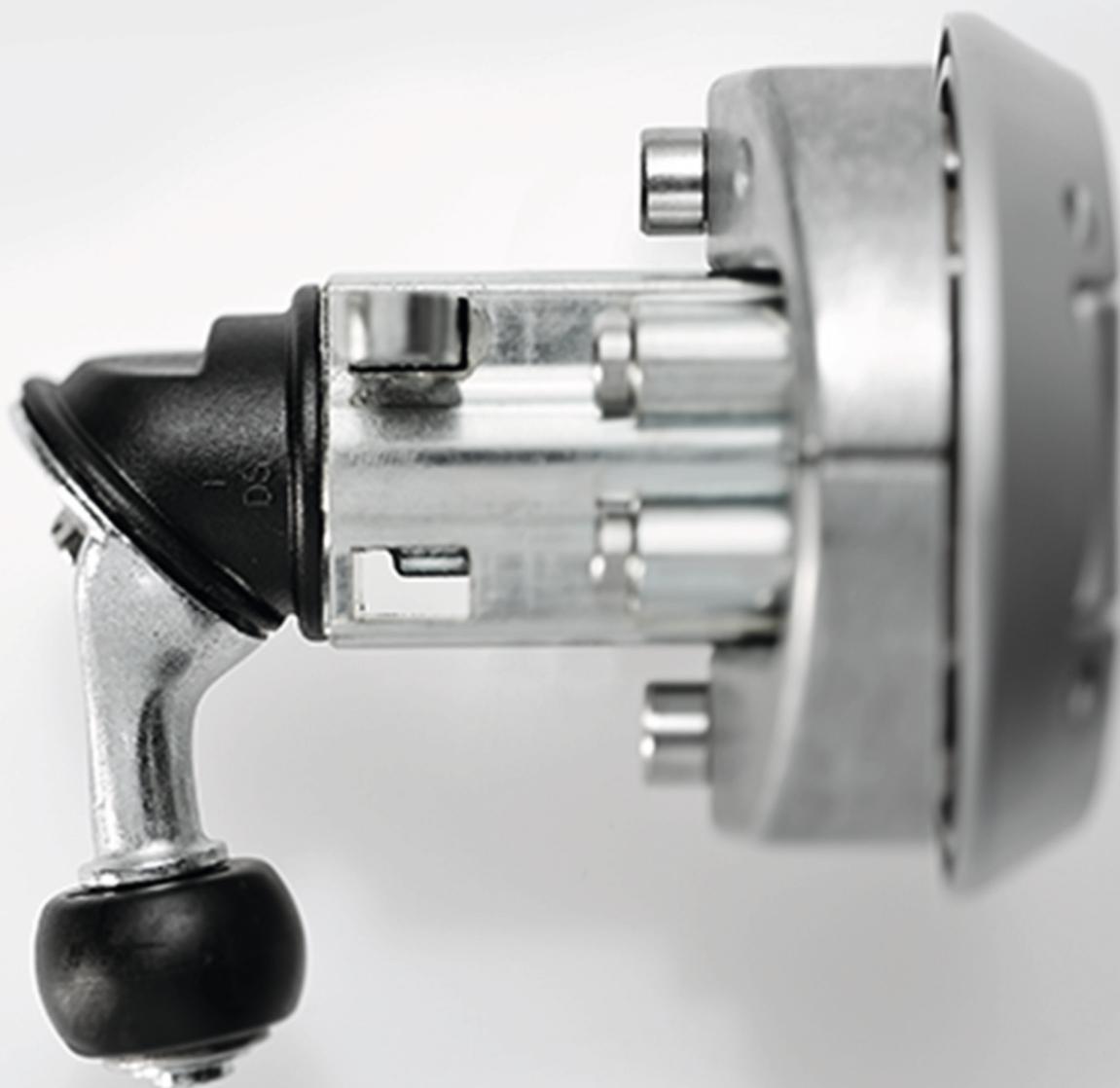


### 2-point latch PHZ (internal)

| Part Number         | Multi-point latch | Version                           |
|---------------------|-------------------|-----------------------------------|
| 448-9125.00-00000   | Yes               | for flat rods                     |
| * 211-9001.00-00000 |                   | Profile-cylinder, keyed different |
| 211-9002.00-00000   |                   | Profile-cylinder, keyed alike     |
| 448-9303.00-Lxxmm   |                   | Flat rod A20, variable length     |
| 448-9304.00-Lxxmm   |                   | Flat rod A26, variable length     |

for 2-point latch PHZ 6-501.01 and flat rods with rollers, horizontal





Compression Latch PHZ  
with Lock Cover on page 128.

- 
- DIN 61373**
- 
- IP 65**
- RoHS WEEE**



Patented unique compression latch with ergonomically designed lock cover and magnet supported cylinder flap.

**Features**

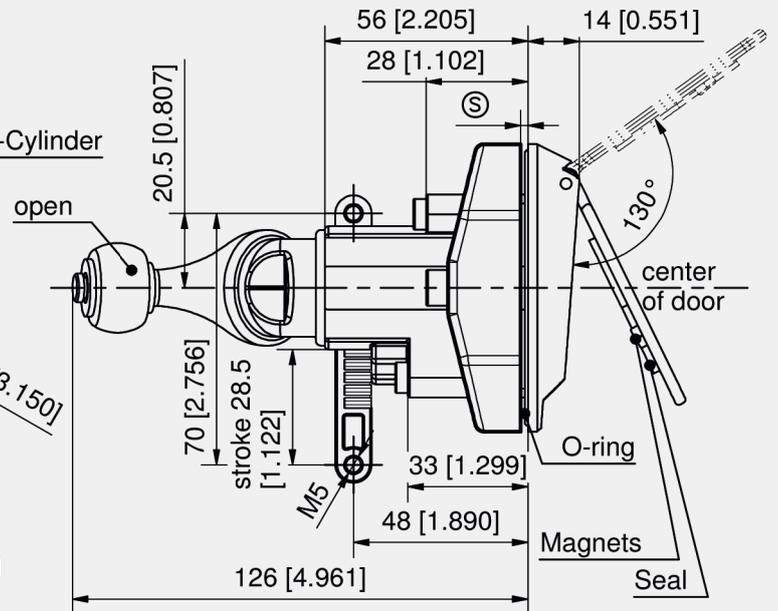
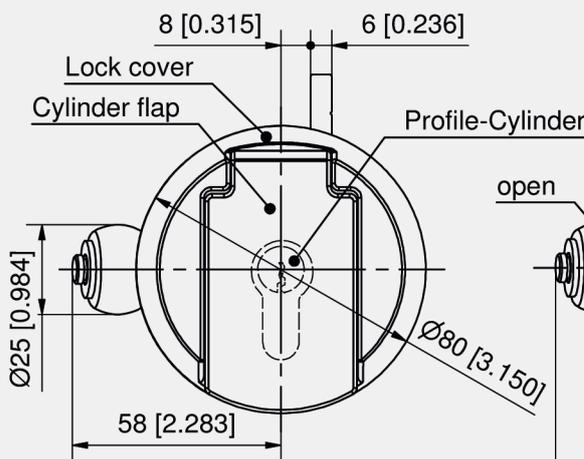
- Compression 10–20 mm.
- The key inserted into the profile-cylinder opens and closes the lock according to DIN 18252.
- Closing- and opening operation 180°.
- The key is removable only in the locked position.
- 1300N of force at the latching point.
- Grounding with set screw DIN 914 (incl.).
- IP65 according to DIN EN 60529.
- Version DIN RH (as shown), Version DIN LH on request.

**Material and surface**

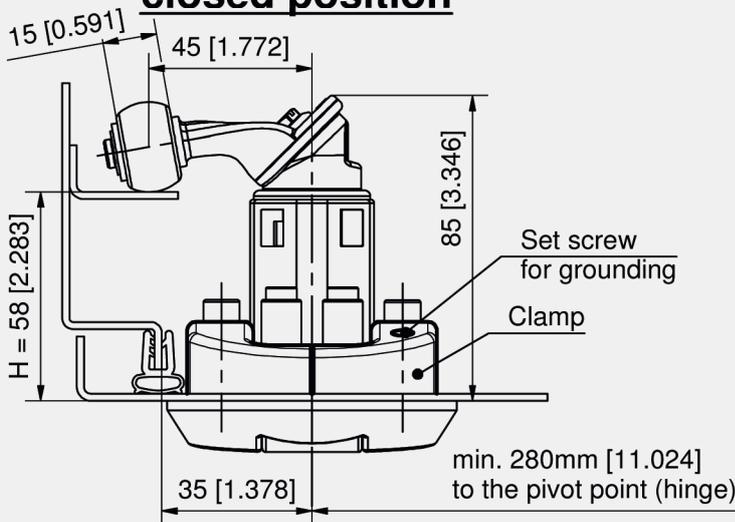
- Housing, slider and cam:** zinc die, zinc plated
- Lock cover:** zinc die, matt chrome plated
- Clamp:** zinc die, untreated
- Seal:** CR / NBR
- Roller:** POM, black
- Washer, retaining clip, fastening screws and set screw:** steel, zinc plated
- Shoulder bolt:** stainless steel
- Gear cover:** PA6, black

**Note**

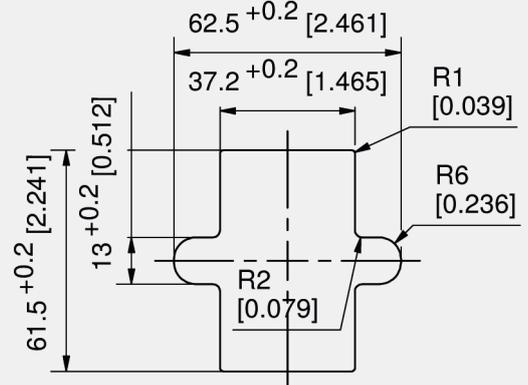
(S) = max. 3 mm.



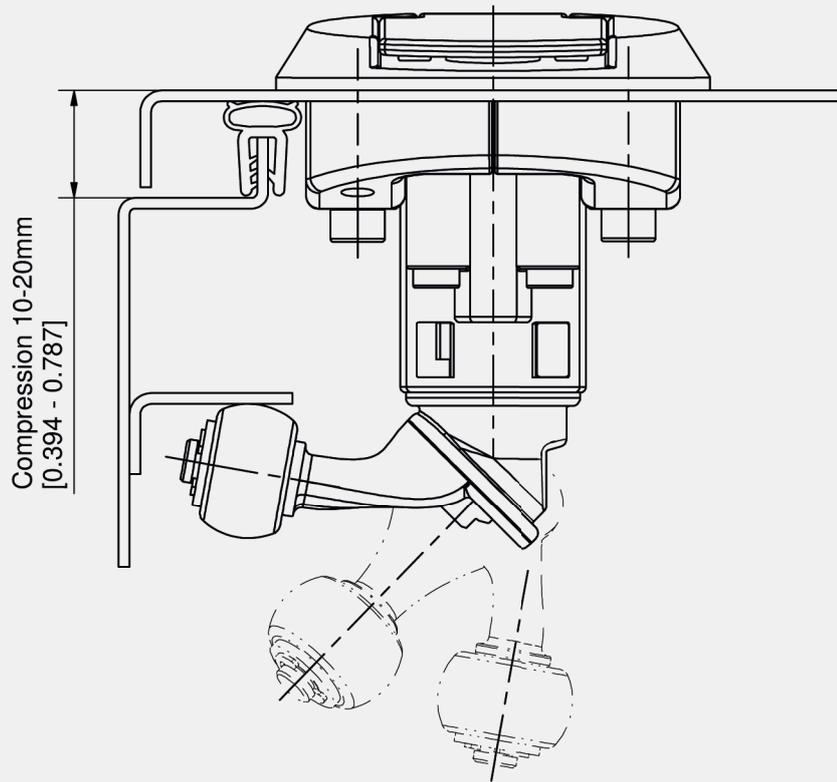
**Example of application closed position**



**Cutout incl. paint**



## Operation



### Compression Latch with lock cover

| Part Number         | Installation type | 1-point cam | H-dimension | Version                           | Compression |
|---------------------|-------------------|-------------|-------------|-----------------------------------|-------------|
| 448-9114.00-00020   | screw-on          | Yes         | 58          | with cam 20                       | yes         |
| * 211-9001.00-00000 |                   |             |             | Profile-cylinder, keyed different |             |
| 211-9002.00-00000   |                   |             |             | Profile-cylinder, keyed alike     |             |

- 
- DIN 61373**
- 
- 
- IP 65**
- RoHS WEEE**



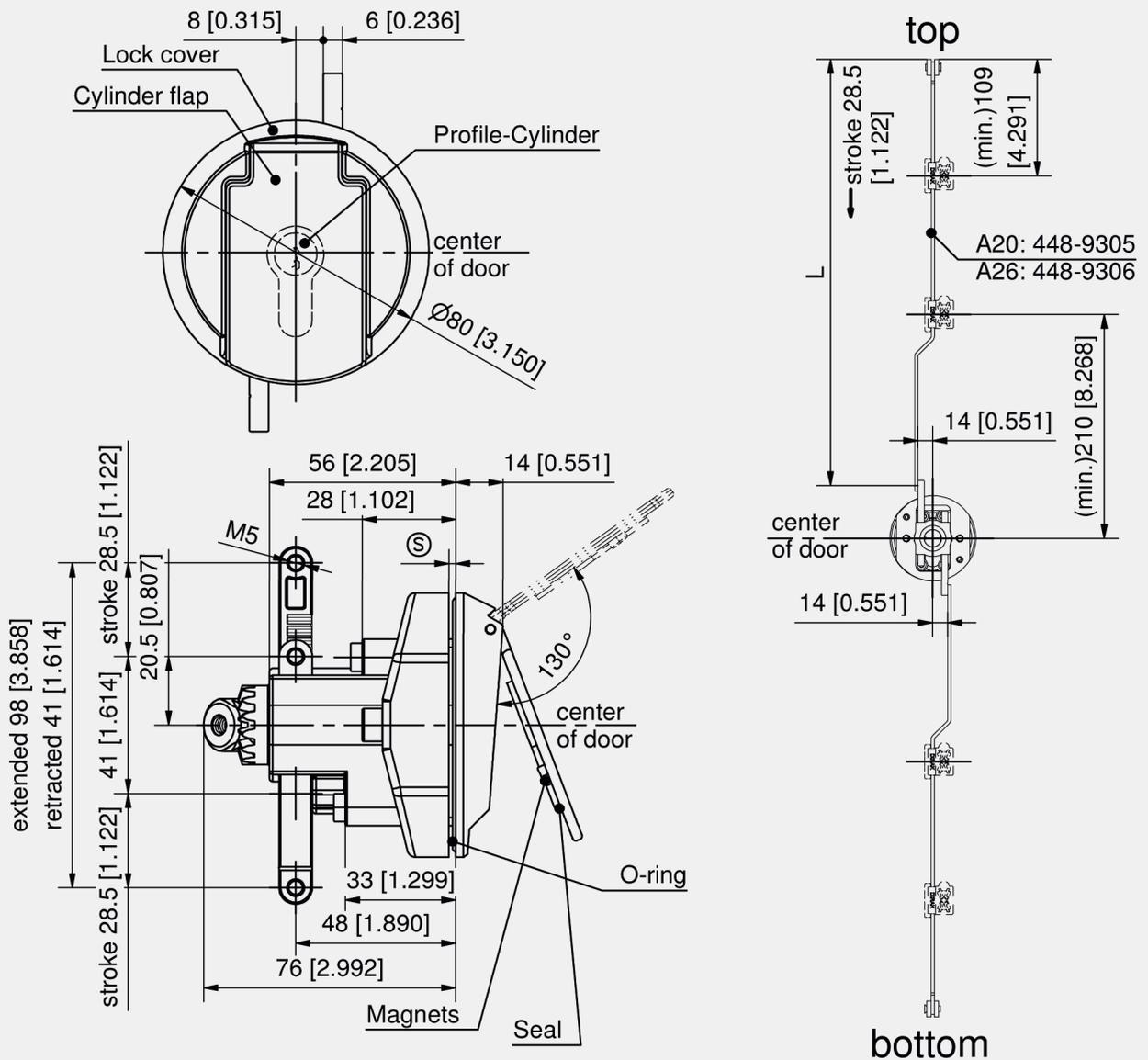
Patented vertical 2-point latch with ergonomically designed lock cover and magnet supported cylinder flap.

**Features**

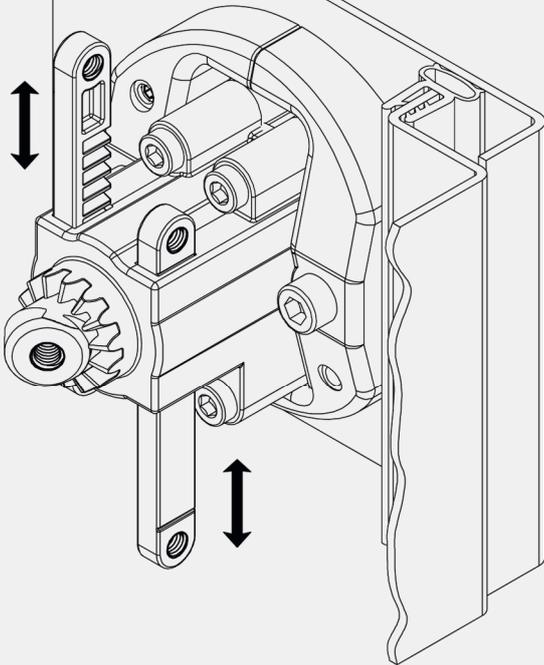
- Perfectly suited to control flat rods.
- The key inserted into the profile-cylinder opens and closes the lock according to DIN 18252.
- Closing- and opening operation 180°.
- The key is removable only in the locked position.
- Grounding with set screw DIN 914 (incl.).
- IP65 according to DIN EN 60529.
- Version DIN RH (as shown)  
Version DIN LH on request.

**Material and surface**

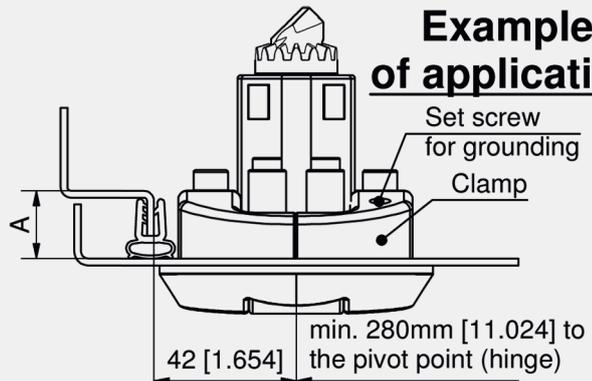
- Housing and slider:** zinc die, zinc plated
  - Clamp:** zinc die, untreated
  - Lock cover:** zinc die, matt chrome plated
  - Seal:** CR / NBR
  - Fastening screws and set screw:** steel, zinc plated
- Note**  
(S) = max. 3 mm.



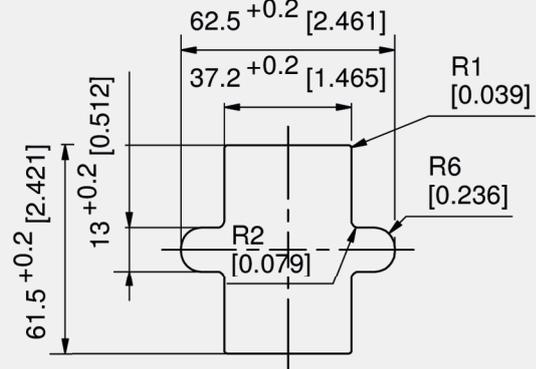
### Operation



### Example of application



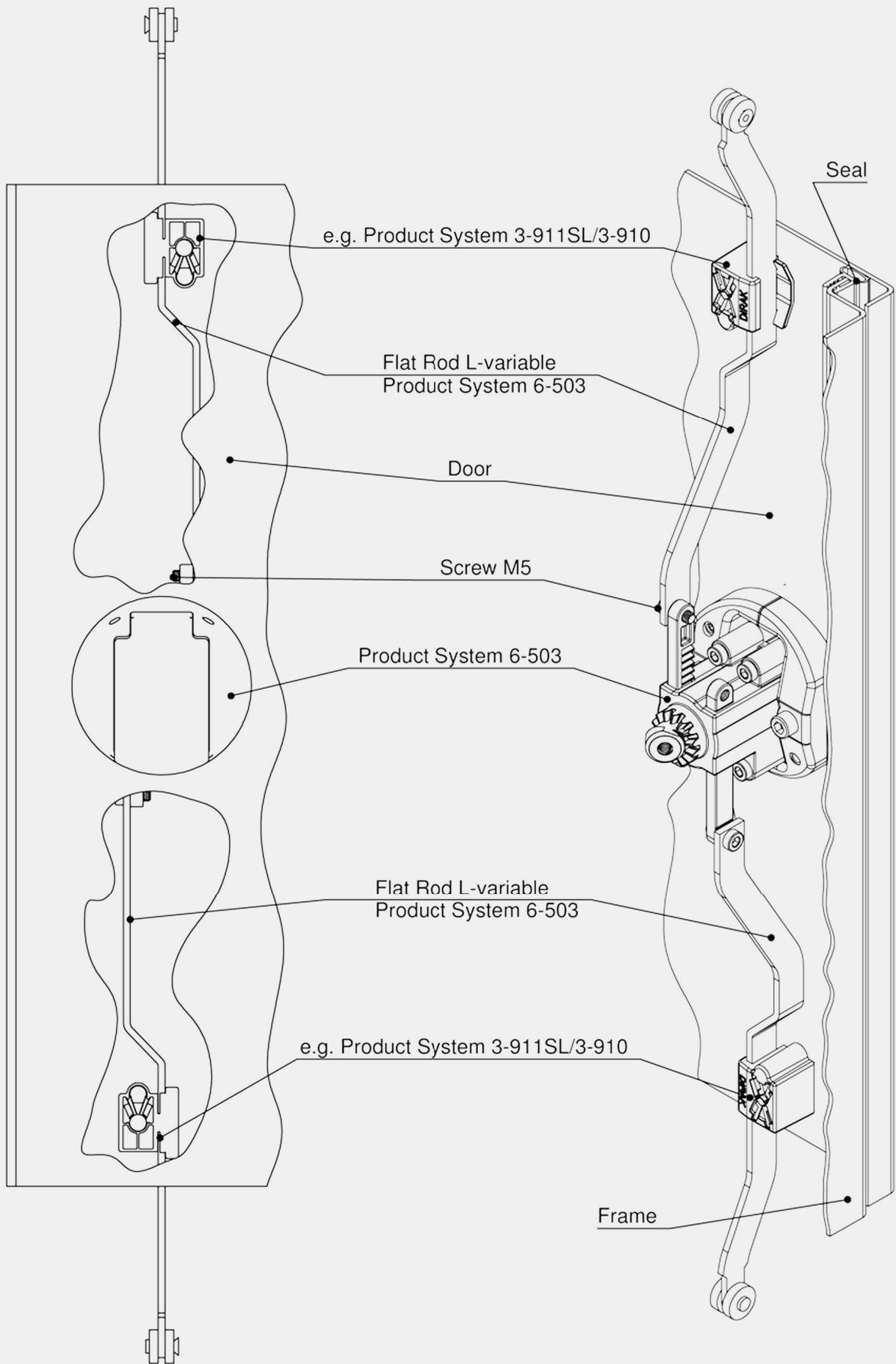
### Einbauöffnung inkl. Lackierung



### 2-point latch with lock cover

| Part Number         | Multi-point latch | Version                           | Compression |
|---------------------|-------------------|-----------------------------------|-------------|
| 448-9120.00-00000   | Yes               | for flat rods                     | yes         |
| * 211-9001.00-00000 |                   | Profile-cylinder, keyed different |             |
| 211-9002.00-00000   |                   | Profile-cylinder, keyed alike     |             |
| 448-9305.00-Lxxmm   |                   | Flat rod A20, variable length     |             |
| 448-9306.00-Lxxmm   |                   | Flat rod A26, variable length     |             |

for 2-point latch PHZ 6-503, with lock cover and flat rods with rollers





Height Adjustable Cams  
on page 146.



Patented horizontal 2-point latch with ergonomically designed lock cover and magnet supported cylinder flap.

**Features**

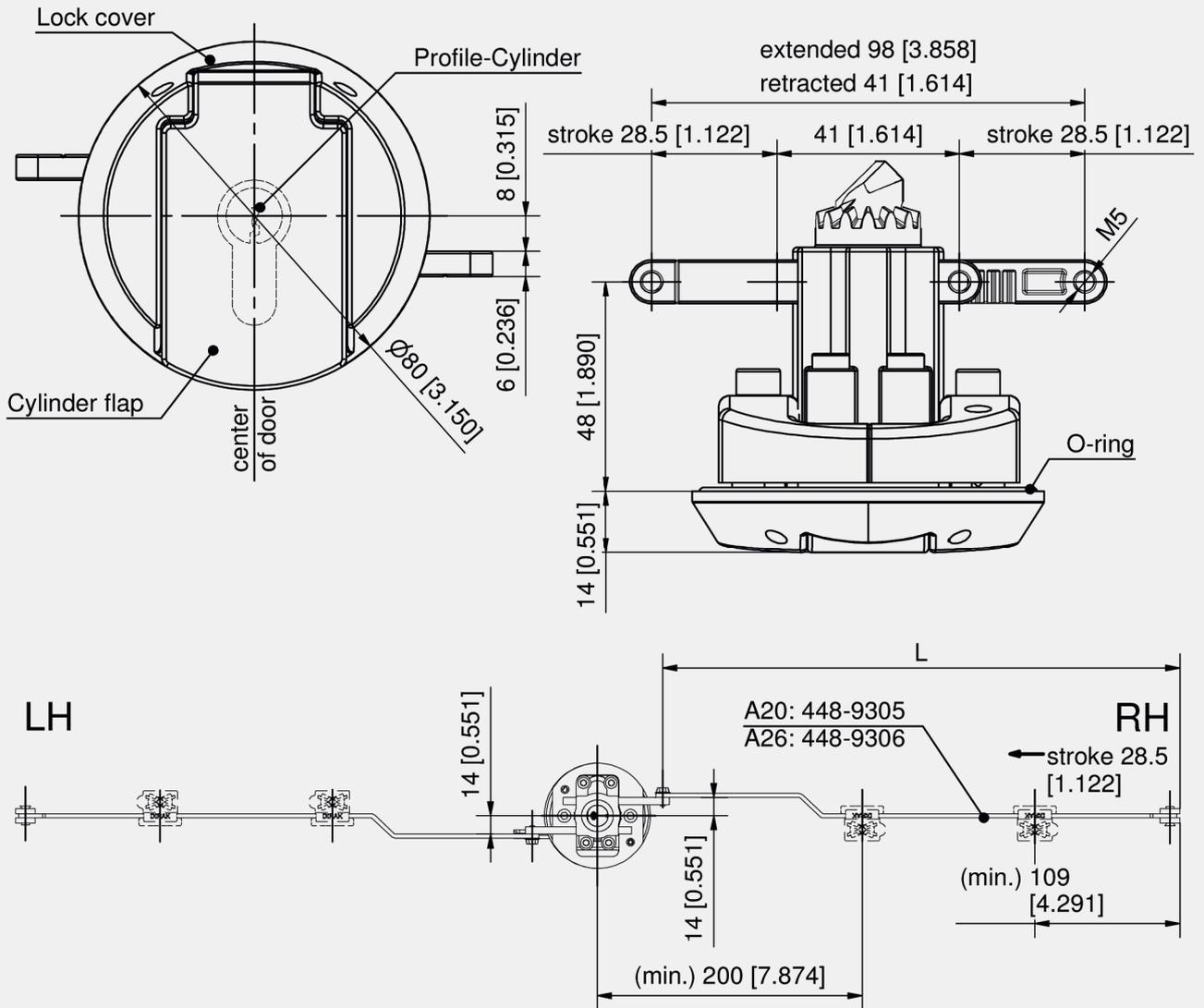
- Perfectly suited to control flat rods.
- The key inserted into the profile-cylinder opens and closes the lock according to DIN 18252.
- Closing- and opening operation 180°.
- The key is removable only in the locked position.
- Grounding with set screw DIN 914 (incl.).
- IP65 according to DIN EN 60529.
- Version DIN RH (as shown), Version DIN LH on request.

**Material and surface**

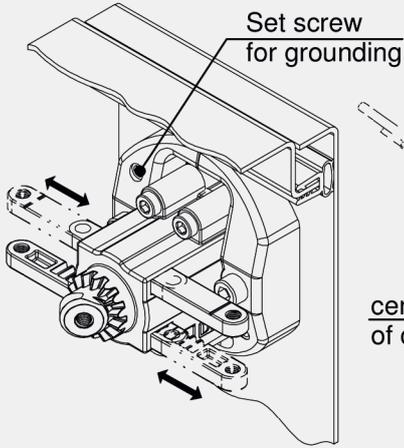
- Housing and slider:** zinc die, zinc plated
- Clamp:** zinc die, untreated
- Lock cover:** zinc die, matt chrome plated
- O-rings:** NBR, black
- Seal for cylinder flap:** CR
- Fastening screws and set screw:** steel, zinc plated

**Note**

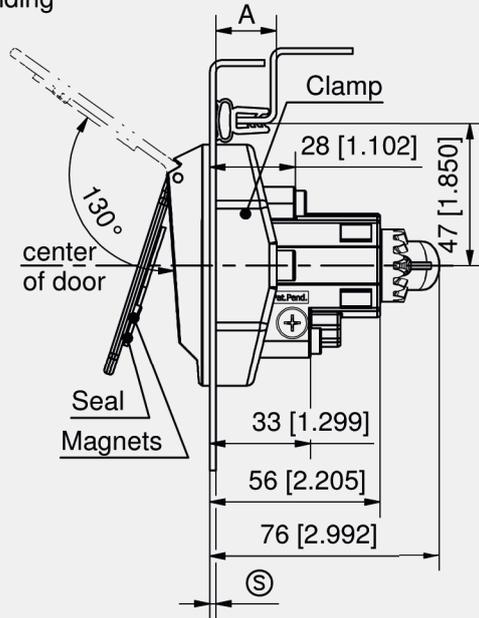
(S) = max. 3 mm



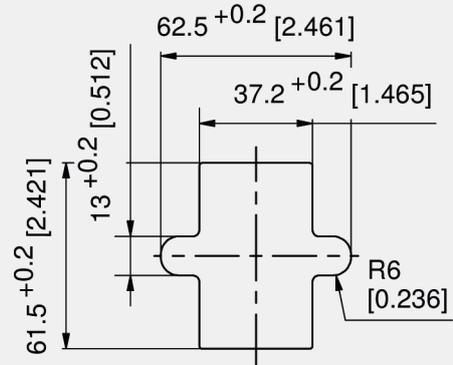
### Operation



### Example of application



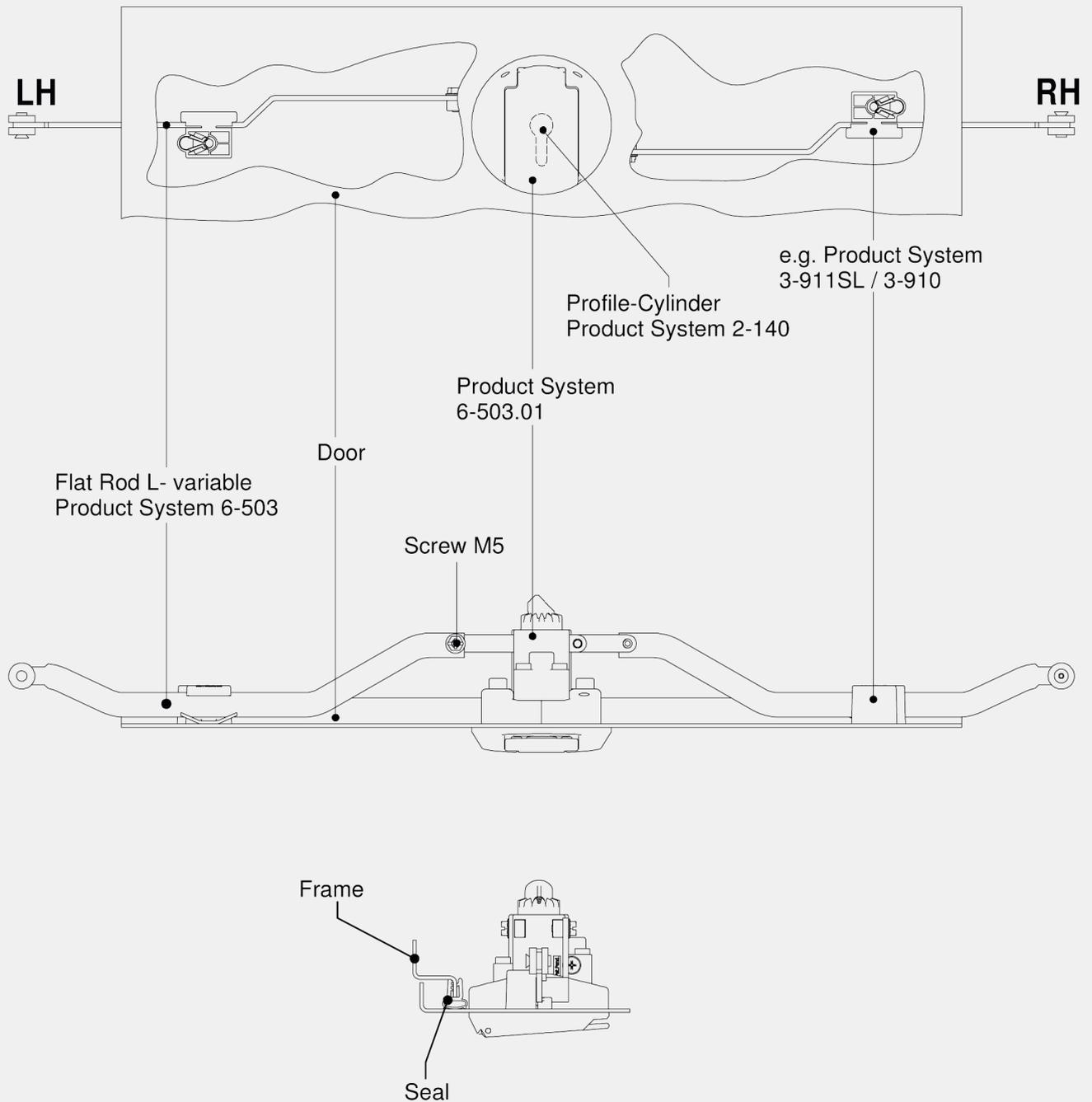
### Cutout incl. paint



### 2-point latch PHZ with lock cover

| Part Number         | Multi-point latch | Version                           | Compression |
|---------------------|-------------------|-----------------------------------|-------------|
| 448-9123.00-00000   | Yes               | for flat rods                     | yes         |
| * 211-9001.00-00000 |                   | Profile-cylinder, keyed different |             |
| 211-9002.00-00000   |                   | Profile-cylinder, keyed alike     |             |
| 448-9305.00-Lxxmm   |                   | Flat rod A20, variable length     |             |
| 448-9306.00-Lxxmm   |                   | Flat rod A26, variable length     |             |

for 2-point latch PHZ 6-503.01, with lock and flat rods with rollers, horizontal





Hinge Pr01 180°  
on page 172.

DIN  
61373



IP  
65

RoHS  
WEEE



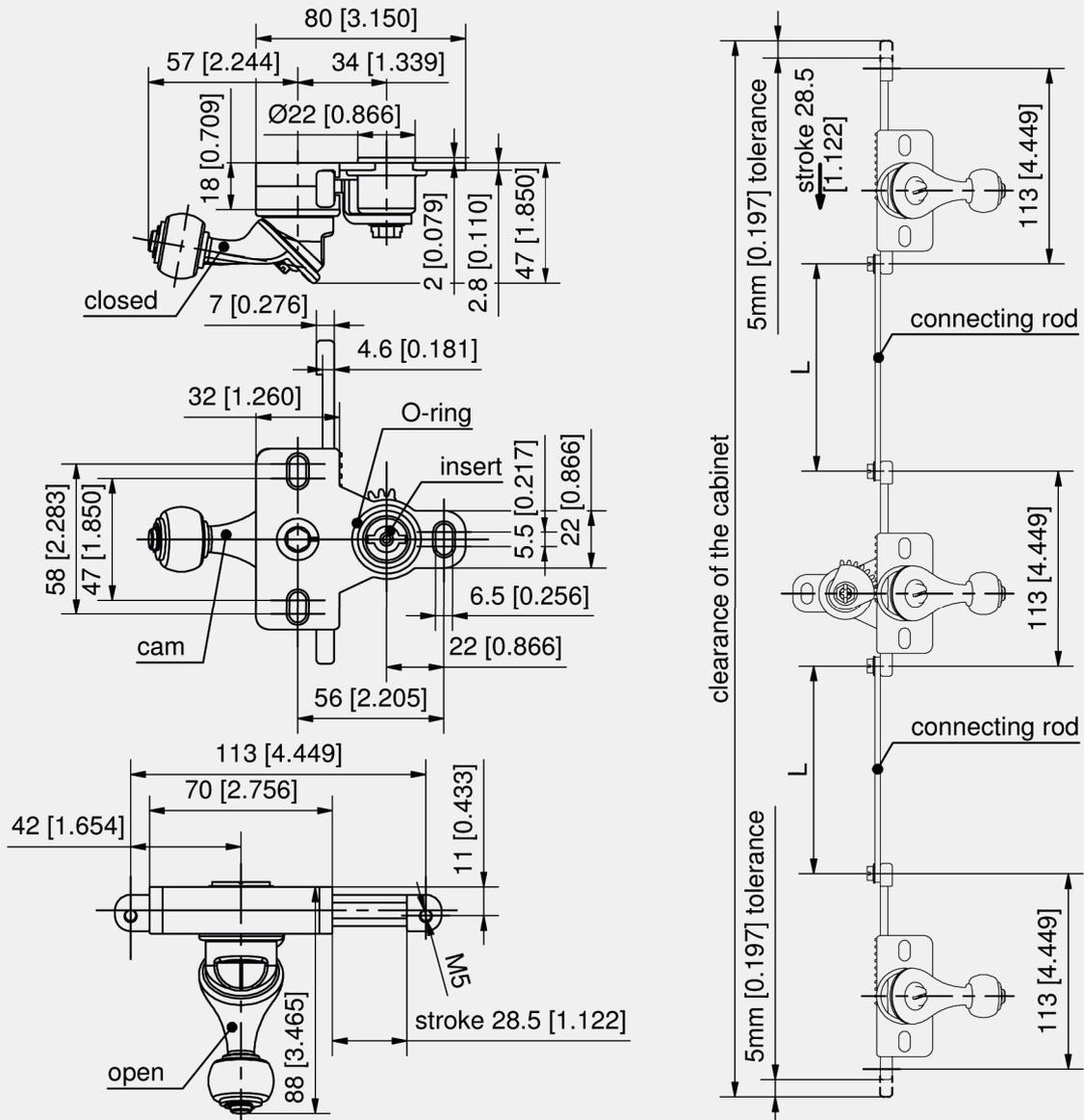
This patented unique compression latch combines design and functionality and has a smooth closing action.

**Features**

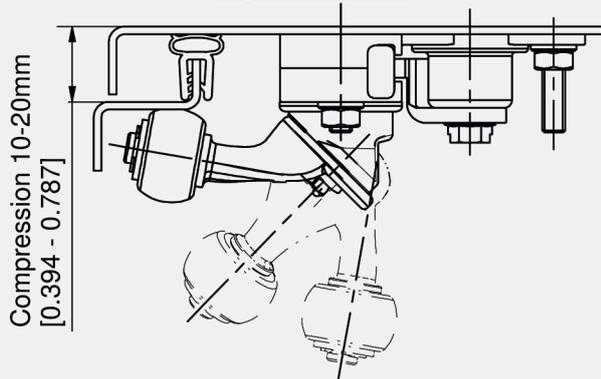
- No protruding handle or knob.
- Innovative locking solution on the inside of the door as a single or multi-point latch (see product system 6-510).
- Perfectly suited to control flat rods.
- Closing- and opening operation 90°.
- 1300N of force per latching point.
- IP65 according to DIN EN 60529.

**Material and surface**

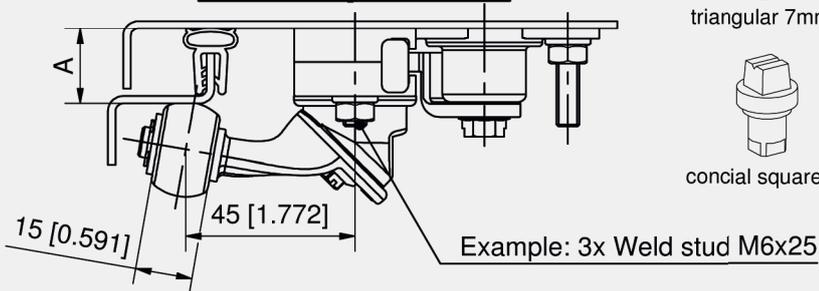
- Housing, slider and cam:** zinc die, zinc plated
- O-rings:** NBR, black
- Washer, retaining clip and fastening screws:** steel, zinc plated
- Roller:** POM, black
- Shoulder bolt:** stainless steel
- Insert:** zinc die, chrome plated
- Gear cover:** PA6, black
- Connecting rod:** steel, zinc plated



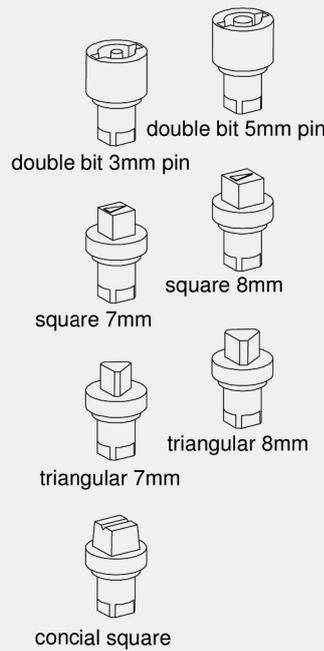
**Operation**



**Example of application closed position**



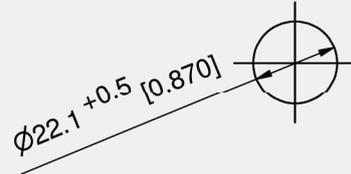
**inserts:**



rotation direction 90°



**Cutout incl. paint**

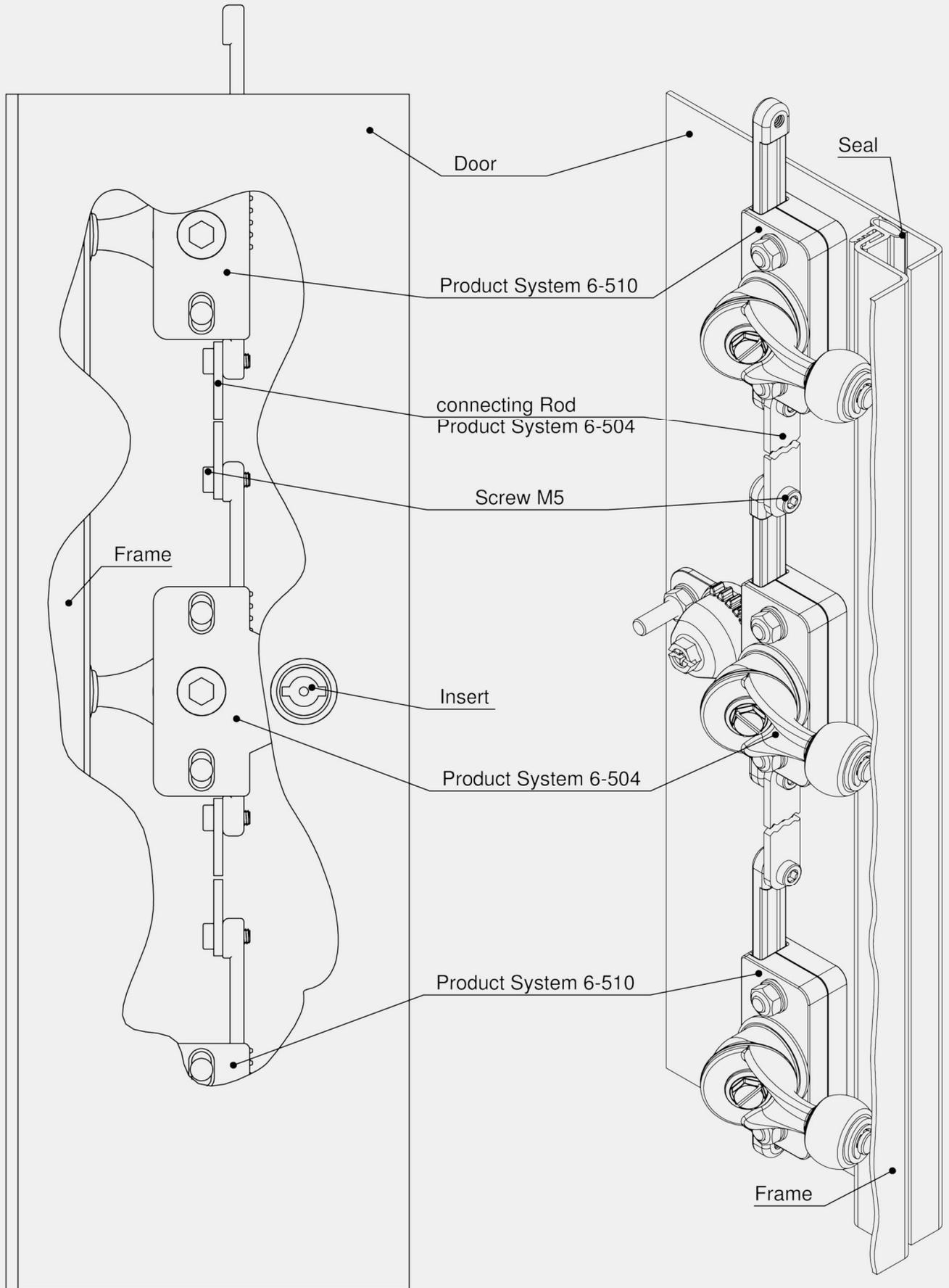


**Compression Latch**

| Part Number       | Insert              | A-dimension | 1-point cam | Multi-point latch possible, see 6-510 | Compression |
|-------------------|---------------------|-------------|-------------|---------------------------------------|-------------|
| 448-9117.00-01018 | Double bit 3 mm pin | 18          | Yes         | Yes                                   | yes         |
| 448-9117.00-02018 | Double bit 5 mm pin | 18          | Yes         | Yes                                   | yes         |
| 448-9117.00-03018 | Square 7 mm         | 18          | Yes         | Yes                                   | yes         |
| 448-9117.00-04018 | Square 8 mm         | 18          | Yes         | Yes                                   | yes         |
| 448-9117.00-05018 | Triangular 7 mm     | 18          | Yes         | Yes                                   | yes         |
| 448-9117.00-06018 | Triangular 8 mm     | 18          | Yes         | Yes                                   | yes         |
| 448-9117.00-07018 | Conical square 9 mm | 18          | Yes         | Yes                                   | yes         |
| 448-9117.00-01020 | Double bit 3 mm pin | 20          | Yes         | Yes                                   | yes         |
| 448-9117.00-02020 | Double bit 5 mm pin | 20          | Yes         | Yes                                   | yes         |
| 448-9117.00-03020 | Square 7 mm         | 20          | Yes         | Yes                                   | yes         |
| 448-9117.00-04020 | Square 8 mm         | 20          | Yes         | Yes                                   | yes         |
| 448-9117.00-05020 | Triangular 7 mm     | 20          | Yes         | Yes                                   | yes         |
| 448-9117.00-06020 | Triangular 8 mm     | 20          | Yes         | Yes                                   | yes         |
| 448-9117.00-07020 | Conical square 9 mm | 20          | Yes         | Yes                                   | yes         |
| 448-9117.00-01023 | Double bit 3 mm pin | 23          | Yes         | Yes                                   | yes         |
| 448-9117.00-02023 | Double bit 5 mm pin | 23          | Yes         | Yes                                   | yes         |
| 448-9117.00-03023 | Square 7 mm         | 23          | Yes         | Yes                                   | yes         |
| 448-9117.00-04023 | Square 8 mm         | 23          | Yes         | Yes                                   | yes         |
| 448-9117.00-05023 | Triangular 7 mm     | 23          | Yes         | Yes                                   | yes         |
| 448-9117.00-06023 | Triangular 8 mm     | 23          | Yes         | Yes                                   | yes         |
| 448-9117.00-07023 | Conical square 9 mm | 23          | Yes         | Yes                                   | yes         |
| 448-9117.00-01025 | Double bit 3 mm pin | 25          | Yes         | Yes                                   | yes         |
| 448-9117.00-02025 | Double bit 5 mm pin | 25          | Yes         | Yes                                   | yes         |
| 448-9117.00-03025 | Square 7 mm         | 25          | Yes         | Yes                                   | yes         |
| 448-9117.00-04025 | Square 8 mm         | 25          | Yes         | Yes                                   | yes         |
| 448-9117.00-05025 | Triangular 7 mm     | 25          | Yes         | Yes                                   | yes         |
| 448-9117.00-06025 | Triangular 8 mm     | 25          | Yes         | Yes                                   | yes         |
| 448-9117.00-07025 | Conical square 9 mm | 25          | Yes         | Yes                                   | yes         |

|   |                   |                |
|---|-------------------|----------------|
| * | 448-0802.15-Lxxmm | Connecting rod |
|---|-------------------|----------------|

| + | Function extension | Part Number |
|---|--------------------|-------------|
|   | Latching Device    | 6-510       |



This patented unique latching device combines design and functionality and provides a smooth closing.

### Features

- Innovative latching device is on the inside of the door.
- The latching devices can be connected by connecting rods.
- 1300N of force per latching device.

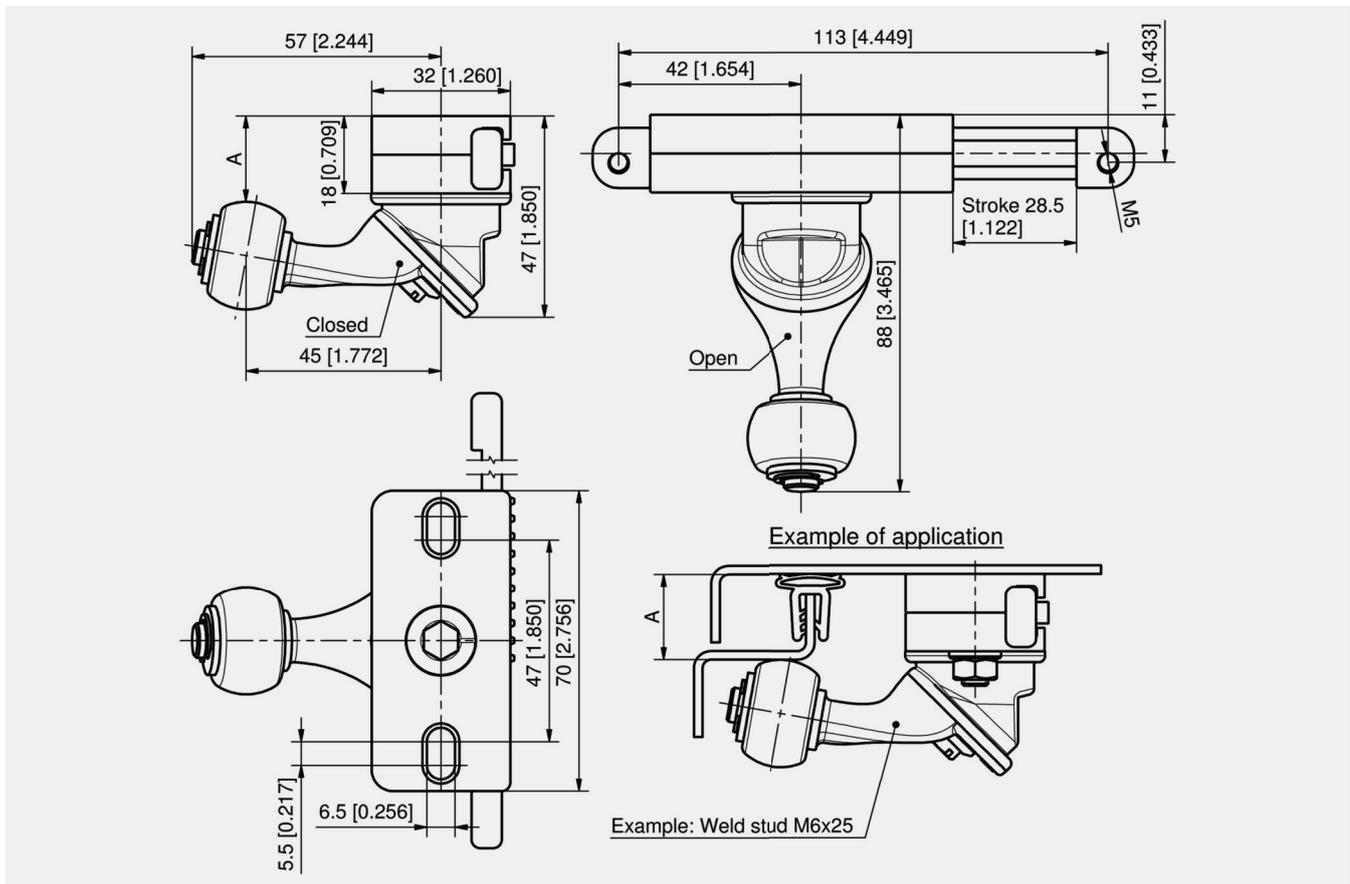
### Material and surface

- Housing, slider and cam:** zinc die, zinc plated
- Cover:** PA6, black
- Washer and retaining clip:** steel, zinc plated
- Roller:** POM, black
- Shoulder bolt:** stainless steel
- Serrated screw and fastening screws:** steel, zinc plated



**DIN 61373**

**RoHS WEEE**



## Compression Latch (internal)

| Part Number       | Installation type | A-dimension | Version     |
|-------------------|-------------------|-------------|-------------|
| 448-9106.00-00018 | screw-on          | 18          | with cam 18 |
| 448-9106.00-00020 | screw-on          | 20          | with cam 20 |
| 448-9106.00-00023 | screw-on          | 23          | with cam 23 |
| 448-9106.00-00025 | screw-on          | 25          | with cam 25 |

| Function extension           | Part Number |
|------------------------------|-------------|
| Compression Latch for Insert | 6-504       |



Compression latch with spring loaded flap. The open flap indicates locking position and protects against dust and water.

**Features**

- Compression 6 mm.
- Vibration-proof.
- RH and LH version.
- The flap is standing upright (90°) in unlocked position and closes first, when compression latch is closed securely.
- Version b): secured against unintended opening at low pressure or high-speed.
- Flat seal damps the flap as well.

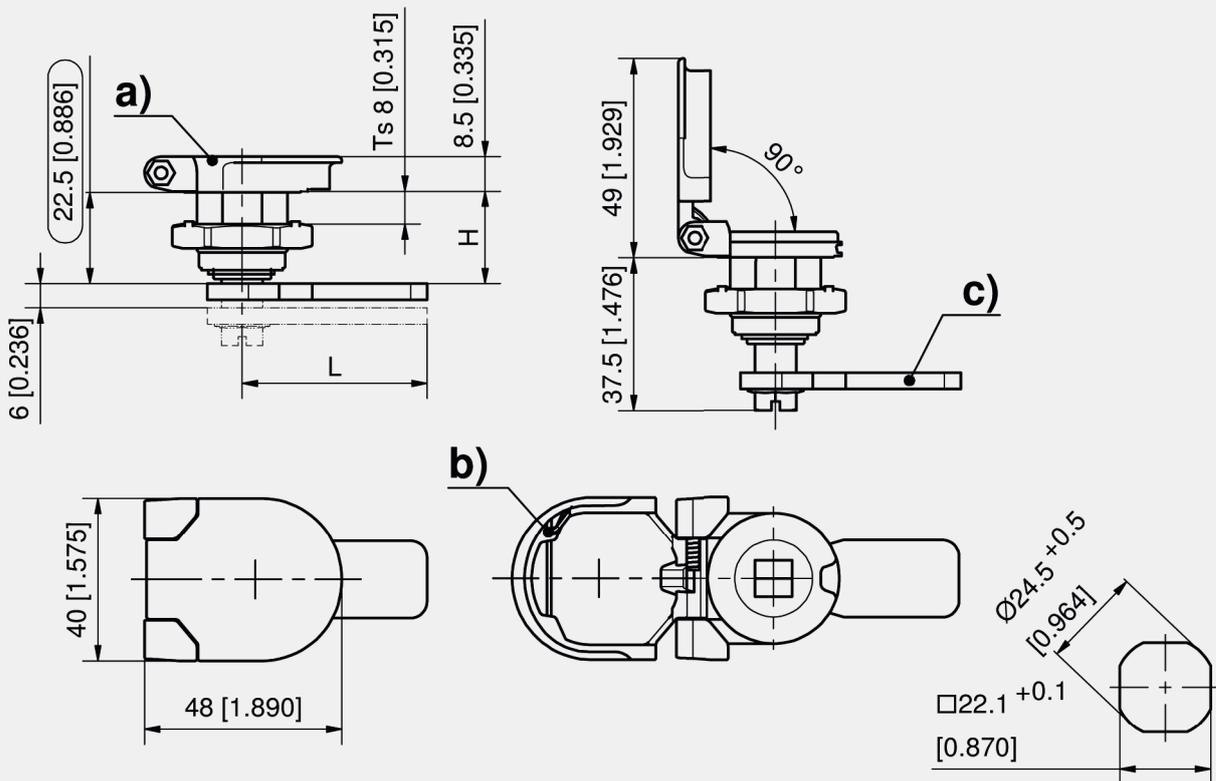
**Material and surface**

**Housing, flap, insert, grounding nut:** stainless steel  
**AISI 316Ti**  
**Screw, nut:** stainless steel  
**Spring:** stainless steel  
**O-ring:** NBR

**Note**

On request available with reflecting sticker on the inside.

Circumferential handle bar allows easy handling also with work- or safety gloves.



### Compression Latch, version RH

|    | Part Number       | Insert              | Housing length | Door-thickness | Grounding type | Installation type | Compression | Construction depth |
|----|-------------------|---------------------|----------------|----------------|----------------|-------------------|-------------|--------------------|
| a) | 248-9603.00-00001 | Double bit 3 mm pin | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |
| a) | 248-9603.00-00002 | Double bit 5 mm pin | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |
| a) | 248-9603.00-00003 | Square 8 mm         | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |
| a) | 248-9603.00-00004 | Triangular 8 mm     | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |
| a) | 248-9603.00-00005 | Conical square 9 mm | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |

### Compression Latch, version LH

|    | Part Number       | Insert              | Housing length | Door-thickness | Grounding type | Installation type | Compression | Construction depth |
|----|-------------------|---------------------|----------------|----------------|----------------|-------------------|-------------|--------------------|
| a) | 248-9652.00-00001 | Double bit 3 mm pin | L22.5          | max.8 mm       | Grounding nut  | screw-on          | 6           | 37,5               |
| a) | 248-9652.00-00002 | Double bit 5 mm pin | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |
| a) | 248-9652.00-00003 | Square 8 mm         | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |
| a) | 248-9652.00-00004 | Triangular 8 mm     | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |
| a) | 248-9652.00-00005 | Conical square 9 mm | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |

### Compression Latch, version RH, spring secured

|    | Part Number       | Insert              | Housing length | Door-thickness | Grounding type | Installation type | Compression | Construction depth |
|----|-------------------|---------------------|----------------|----------------|----------------|-------------------|-------------|--------------------|
| b) | 248-9604.00-00001 | Double bit 3 mm pin | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |
| b) | 248-9604.00-00002 | Double bit 5 mm pin | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |
| b) | 248-9604.00-00003 | Square 8 mm         | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |
| b) | 248-9604.00-00004 | Triangular 8 mm     | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |
| b) | 248-9604.00-00005 | Conical square 9 mm | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |

### Compression Latch, version LH, spring secured

|    | Part Number       | Insert              | Housing length | Door-thickness | Grounding type | Installation type | Compression | Construction depth |
|----|-------------------|---------------------|----------------|----------------|----------------|-------------------|-------------|--------------------|
| b) | 248-9653.00-00001 | Double bit 3 mm pin | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |
| b) | 248-9653.00-00002 | Double bit 5 mm pin | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |
| b) | 248-9653.00-00003 | Square 8 mm         | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |
| b) | 248-9653.00-00004 | Triangular 8 mm     | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |
| b) | 248-9653.00-00005 | Conical square 9 mm | L22.5          | max. 8 mm      | Grounding nut  | screw-on          | 6           | 37,5               |



7-105.01  
200-0916.00-00000

Cams L35/45 without Ramp and Stop  
Flat external seal for Prod. System 7-071



Nicely shaped safety Quarter-turn.

**Features**

- Vibration-proof also at high sealing pressure.
- Fully closed external surface.
- IP65 according to DIN EN 60529.
- RH / LH application.
- A pre-assembled quarter-turn can be inserted through the cutout.
- On request cam can be pre-assembled by DIRAK.

**Material and surface**

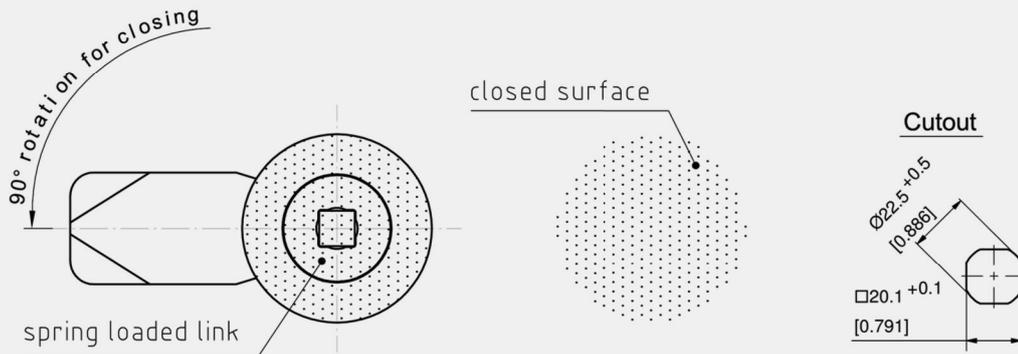
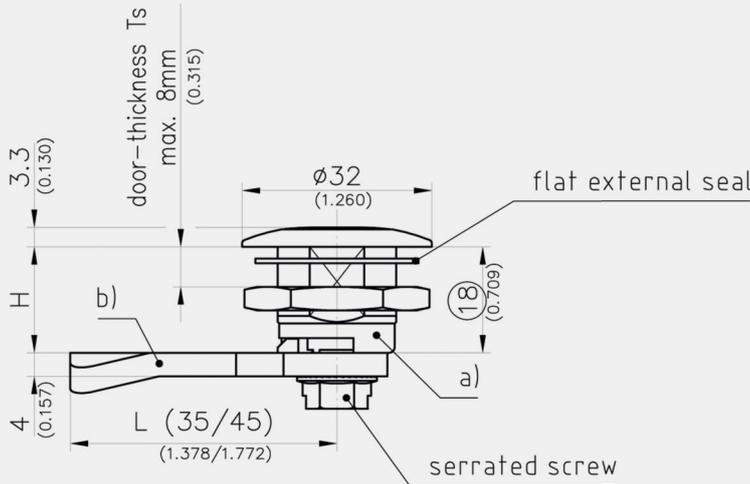
**Housing, insert, spring loaded link and nut:** stainless steel AISI 316L

**O-ring and flat seal:** NBR Perbunan

**Serrated screw and spring:** stainless steel AISI 304

**Note**

An assembled cam will have some axial play on the insert. This play is necessary to neutralize tipping of the insert at high compression forces. This tipping will squeeze the spring loaded link.



**Safety Quarter-turn**

| Part Number       | Insert      | Housing length | Door-thickness | Material        |
|-------------------|-------------|----------------|----------------|-----------------|
| 255-9427.00-00000 | Square 6 mm | L18            | max. 8 mm      | stainless steel |

Slam-cam for slam doors or flaps.

**Features**

- Locking without key or tool.
- A slam-cam set consists of a cam, a spring and a serrated screw with self securing powder dot.
- This self securing powder dot is to tune / adjust the correct friction for the stroke.

**Material and surface**

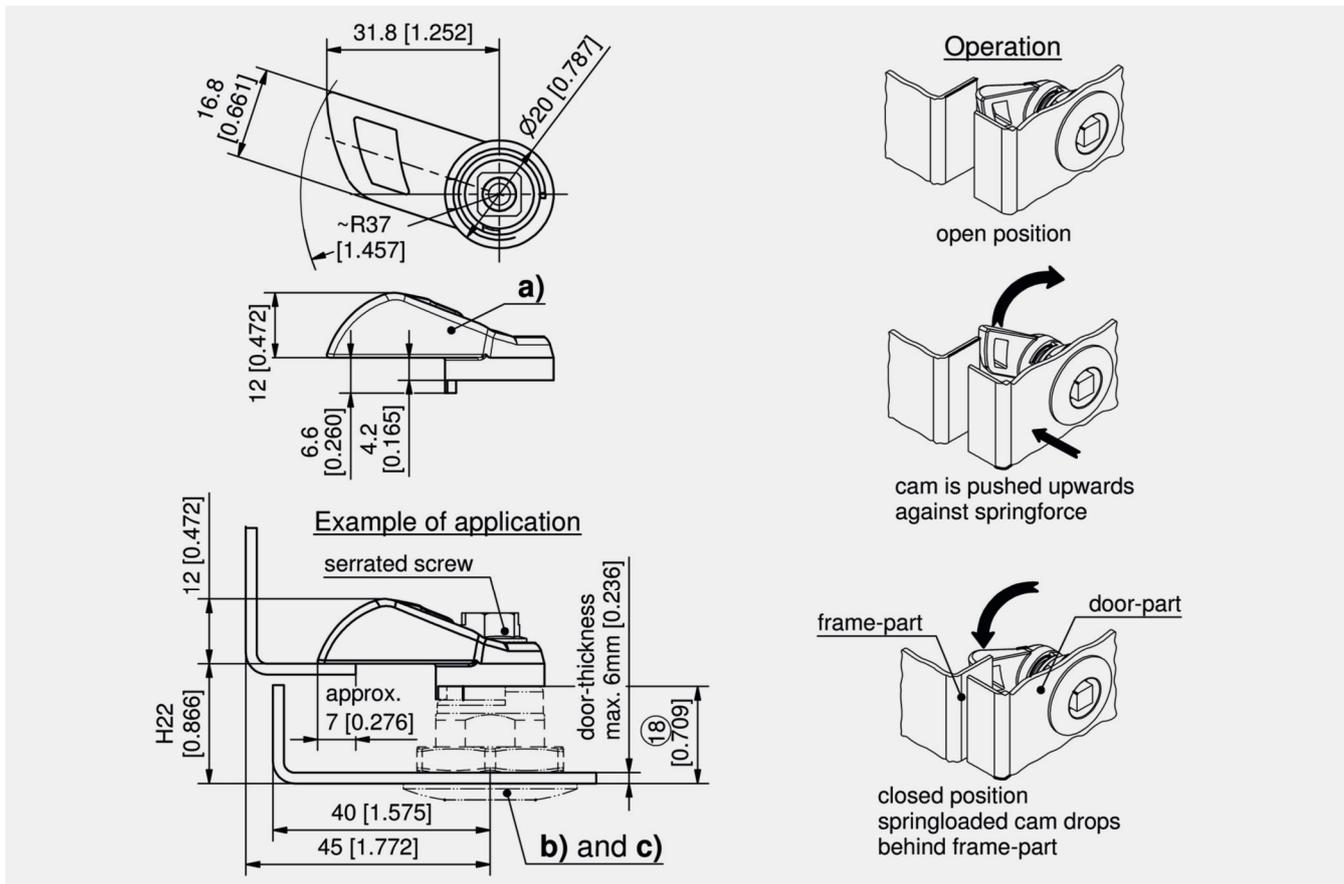
- Slam-cam:** stainless steel AISI 316
- Spring:** stainless steel AISI 301
- Serrated screw:** stainless steel AISI 303

**Note**

On request, latch units with this cam should be assembled by DIRAK. A pre-assembled Quarter-turn can be installed through the cutout.



RoHS  
WEEE



**Slam-Cam**

|    | Part Number       | Material        | Length L | Version |
|----|-------------------|-----------------|----------|---------|
| a) | 200-9629.00-00000 | stainless steel | L32      | RH      |
| a) | 200-9630.00-00000 | stainless steel | L32      | LH      |



SNAP

DIN 61373

RoHS WEEE



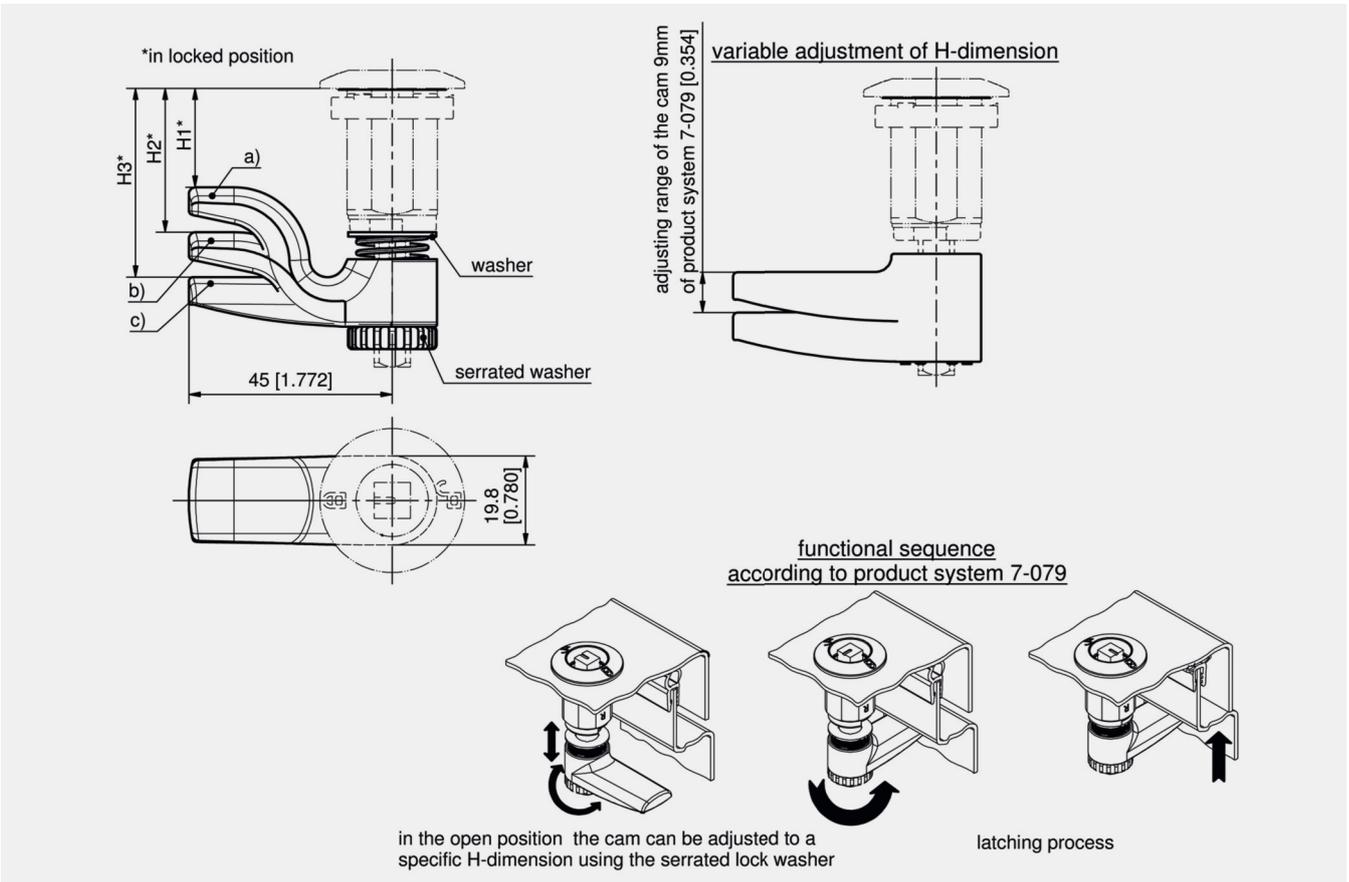
Height adjustable cam for all Quarter-turns and compression Quarter-turns with long shaft that allow for adjustable cam.

**Features**

- Tool-less adjustment.
- Variable adjustments can easily be made on different size seals, using serrated washer.
- Adjusting range of 9 mm [0.354]
- Can be readjusted at any time (compressed sealing).
- Clamping range of 30 mm [1.181] can be achieved with only 3 cams.
- Each detent achieves 0.25 mm [0.010] adjustment.

**Material and surface**

- Cam and serrated washer:** stainless steel AISI 316, untreated
- Washer:** stainless steel AISI 304, untreated
- Compression spring:** stainless steel AISI 301, untreated



**Height-adjustable Cam**

|    | Part Number       | Material        | Length L | H-dimension straight variable | H-dimension positive variable |
|----|-------------------|-----------------|----------|-------------------------------|-------------------------------|
| c) | 100-9079.00-00000 | stainless steel | L45      | H3 = 40–49                    |                               |
| a) | 100-9079.00-00001 | stainless steel | L45      |                               | H1 = 20–29                    |
| b) | 100-9079.00-00002 | stainless steel | L45      |                               | H2 = 30–39                    |

This Catch was developed for tool-less adjustment of all standard cams and is suitable for M10 square threaded rods.

**Features**

- Tool-less adjustment.
- Variable and easy adjustment with stop washer.
- Adjustment track per click 0.25 mm.
- Vibration-proof.
- Readjustment possible at any time (e.g. compressed sealing).
- For cams with and without stop.

**Material and surface**

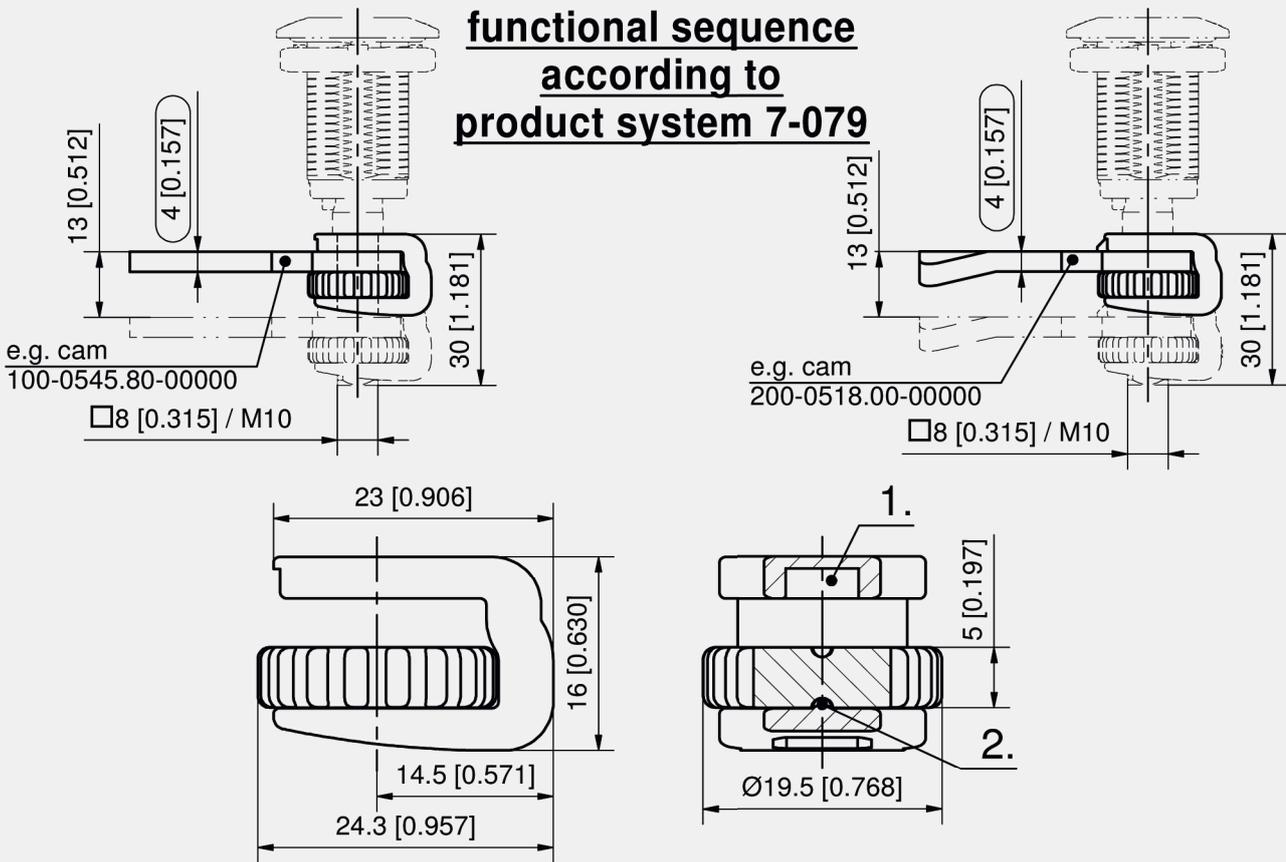
**Catch:** PA, black  
**Stop washer:** stainless steel

**Note**

- 1. = Recess for cams with stop
- 2. = Detent (6x)



**functional sequence according to product system 7-079**



**Catch for standard cams**

| Part Number       | Material stop washer |
|-------------------|----------------------|
| 248-9902.00-00000 | stainless steel      |

- 
- 
- 
- 
- DIN 61373**
- IP 65**
- IP 67**
- IP 69K**
- 
- RoHS WEEE**
- 



Elegant, low profile Compression latch.

**Features**

- Compression 6 mm.
- Vibration-proof according to DIN EN 61373.
- RH and LH version.
- The coloured marking on the casing top indicates the opened/closed position in form of a padlock.
- IP 65/67/69K according to DIN EN 60529/ DIN 40050.
- The H-dimension can be varied via the cranking of the cams.

**Material and surface**

**Housing, insert, axle and nut:** stainless steel AISI 316

**Grounding nut:** stainless steel AISI 316L

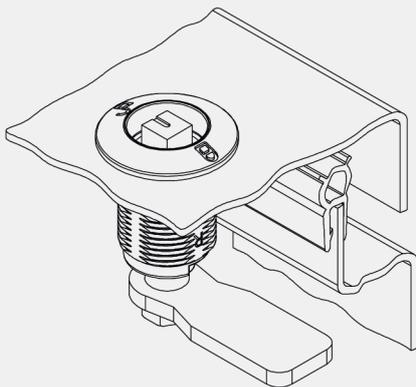
**Cam and serrated screw:** stainless steel AISI 304

**Note**

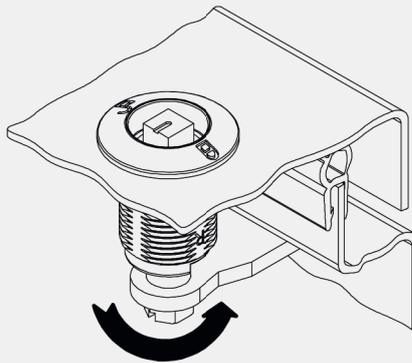
Negatively bent cams can not be installed pre-assembled.

1. Foamed sealing PUR.

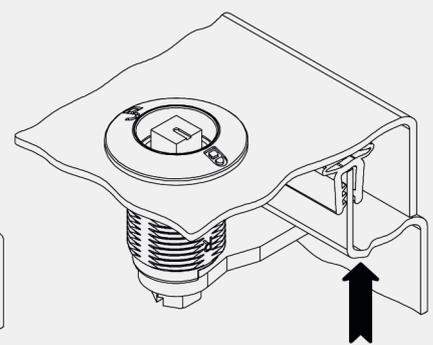
**Operation**



open, unlatched position



First 90° rotation: the cam latches behind the frame into the locked position. The door cannot be opened.



A further 90° rotation will pull the already latched cam towards the frame: the seal is compressed, the door is latched and free of play.

**Compression Latch with Cam and Accessories**

**248-91AA.00- X Y L CC**

**Insert version and Design:**

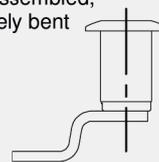
RH or LH see table a)

**Accessories on table a):**

- 0= without Accessories
- 1= Serrated lock washer 840-6798.00-00023
- 2= Dustcap 200-4103.00-00000
- 3= Serrated lock washer + Dustcap

**Assembling of Cam:**

- 0= without Cam
- 1= Cam not assembled
- 3= Cam assembled, positively bent Cam

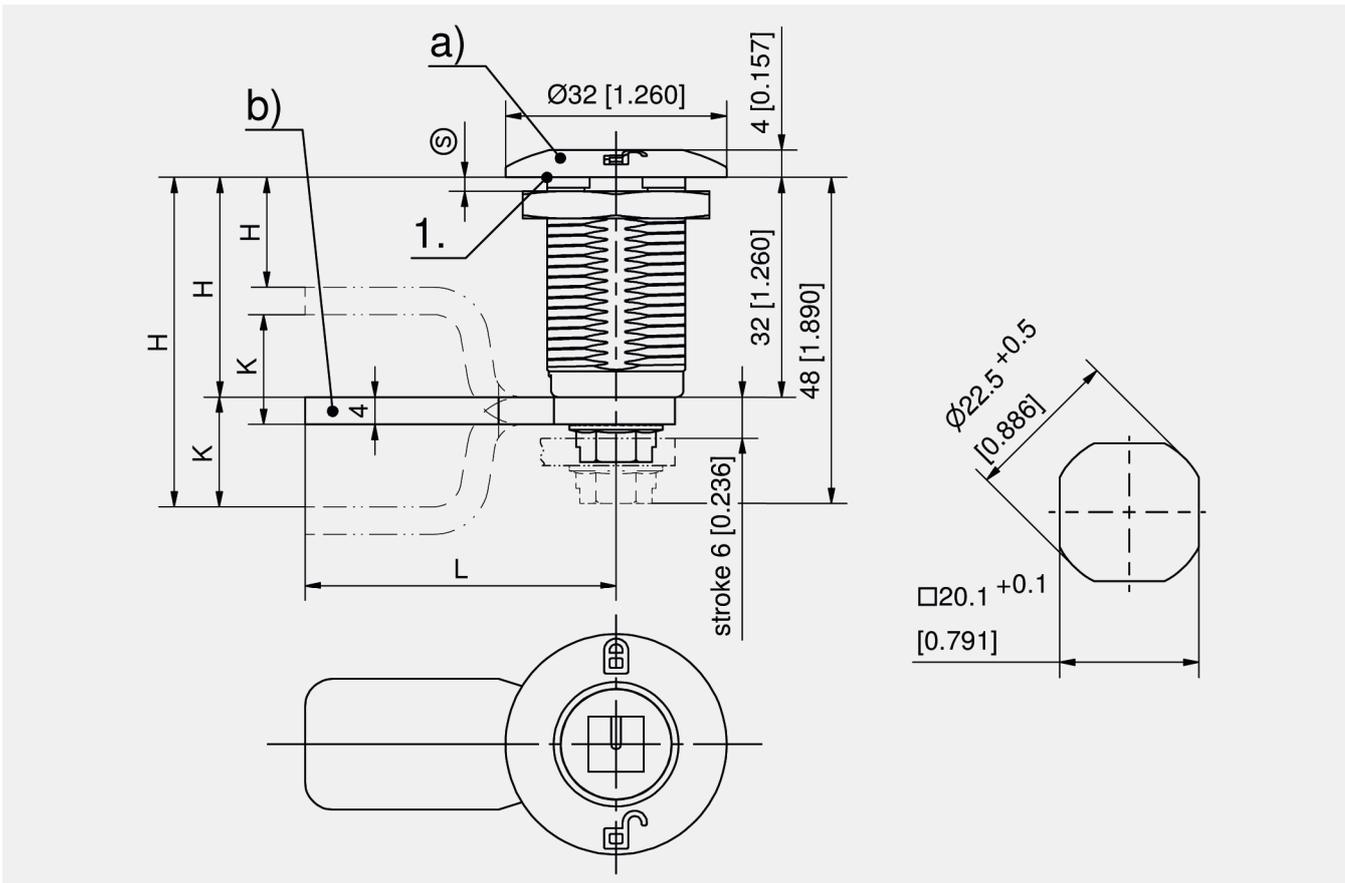


**length of Cam:**

- 0= without Cam
- 1= L35
- 2= L45

**Cranked Cam CC:**

see table b)



### Compression Latch with insert, version RH

|    | Part Number       | Insert                  | Door-thickness | Grounding type | Installation type | Construction depth |
|----|-------------------|-------------------------|----------------|----------------|-------------------|--------------------|
| a) | 248-9100.00-00000 | Square 6 mm             | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9101.00-00000 | Square 7 mm             | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9102.00-00000 | Square 8 mm             | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9103.00-00000 | Double bit 3 mm pin     | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9104.00-00000 | Double bit 5 mm pin     | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9105.00-00000 | Triangular 6.5 mm       | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9106.00-00000 | Triangular 7 mm         | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9107.00-00000 | Triangular 8 mm         | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9109.00-00000 | Hex.SW 11               | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9108.00-00000 | Conical square 9 mm     | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9110.00-00000 | Conical triangular 7 mm | max. 22 mm     | Grounding nut  | screw-on          | 48                 |

### Compression Latch with insert, version LH

|    | Part Number       | Insert                  | Door-thickness | Grounding type | Installation type | Construction depth |
|----|-------------------|-------------------------|----------------|----------------|-------------------|--------------------|
| a) | 248-9150.00-00000 | Square 6 mm             | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9151.00-00000 | Square 7 mm             | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9152.00-00000 | Square 8 mm             | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9153.00-00000 | Double bit 3 mm pin     | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9154.00-00000 | Double bit 5 mm pin     | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9155.00-00000 | Triangular 6.5 mm       | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9156.00-00000 | Triangular 7 mm         | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9157.00-00000 | Triangular 8 mm         | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9159.00-00000 | Hex.SW 11               | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9158.00-00000 | Conical square 9 mm     | max. 22 mm     | Grounding nut  | screw-on          | 48                 |
| a) | 248-9160.00-00000 | Conical triangular 7 mm | max. 22 mm     | Grounding nut  | screw-on          | 48                 |

|   |          |                                   |
|---|----------|-----------------------------------|
| * | 7-105.01 | Cams L35/45 without Ramp and Stop |
|---|----------|-----------------------------------|

- 
- 
- 
- 
- DIN 61373**
- IP 65**
- IP 67**
- IP 69K**
- 
- RoHS WEEE**
- 



Elegant, low profile Compression latch.

**Features**

- Compression 6 mm.
- Vibration-proof according to DIN EN 61373.
- RH and LH version.
- The coloured marking on the casing top indicates the opened/closed position in form of a padlock.
- IP 65/67/69K according to DIN EN 60529/ DIN 40050.
- The H-dimension can be varied via the cranking of the cams.

**Material and surface**

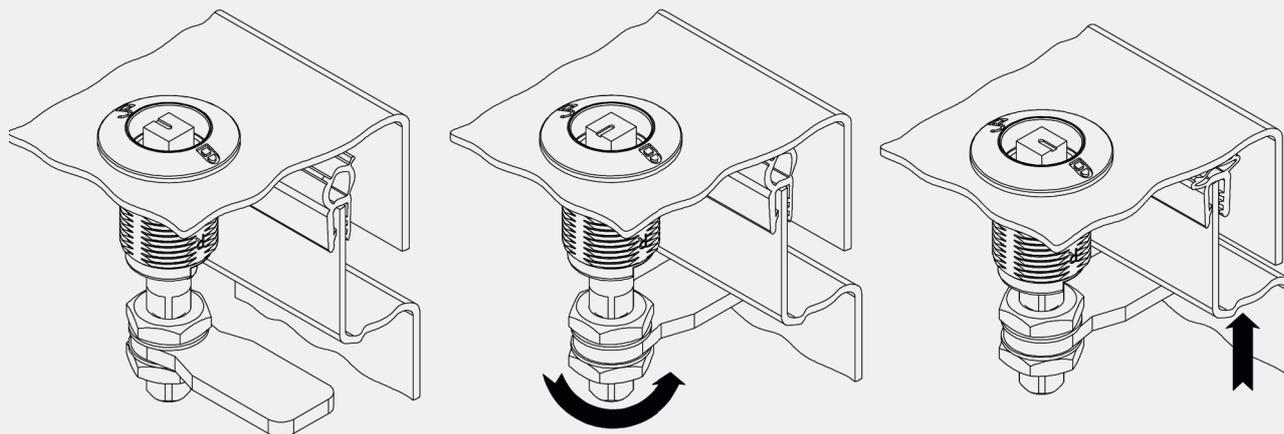
**Housing, insert and axle:** stainless steel AISI 316  
**Grounding nut:** stainless steel AISI 316L  
**Cam, serrated washer and nuts M8:** stainless steel AISI 304

**Note**

The cam can be varied to ±6 mm (0.236) via nuts (included) on the axis.

1. = Foamed sealing PUR.

**Operation**



open, unlatched position

First 90° rotation: the cam latches behind the frame into the locked position. The door cannot be opened.

A further 90° rotation will pull the already latched cam towards the frame: the seal is compressed, the door is latched and free of play.

**Compression Latch with Cam and Accessories**

**248-92AA.00- X Y L CC**

**Insert version and Design:**

RH or LH see table a)

**Accessories on table a):**

- 0= without Accessories
- 1= Serrated lock washer 840-6798.00-00023
- 2= Dustcap 200-4103.00-00000
- 3= Serrated lock washer + Dustcap

**Assembling of Cam:**

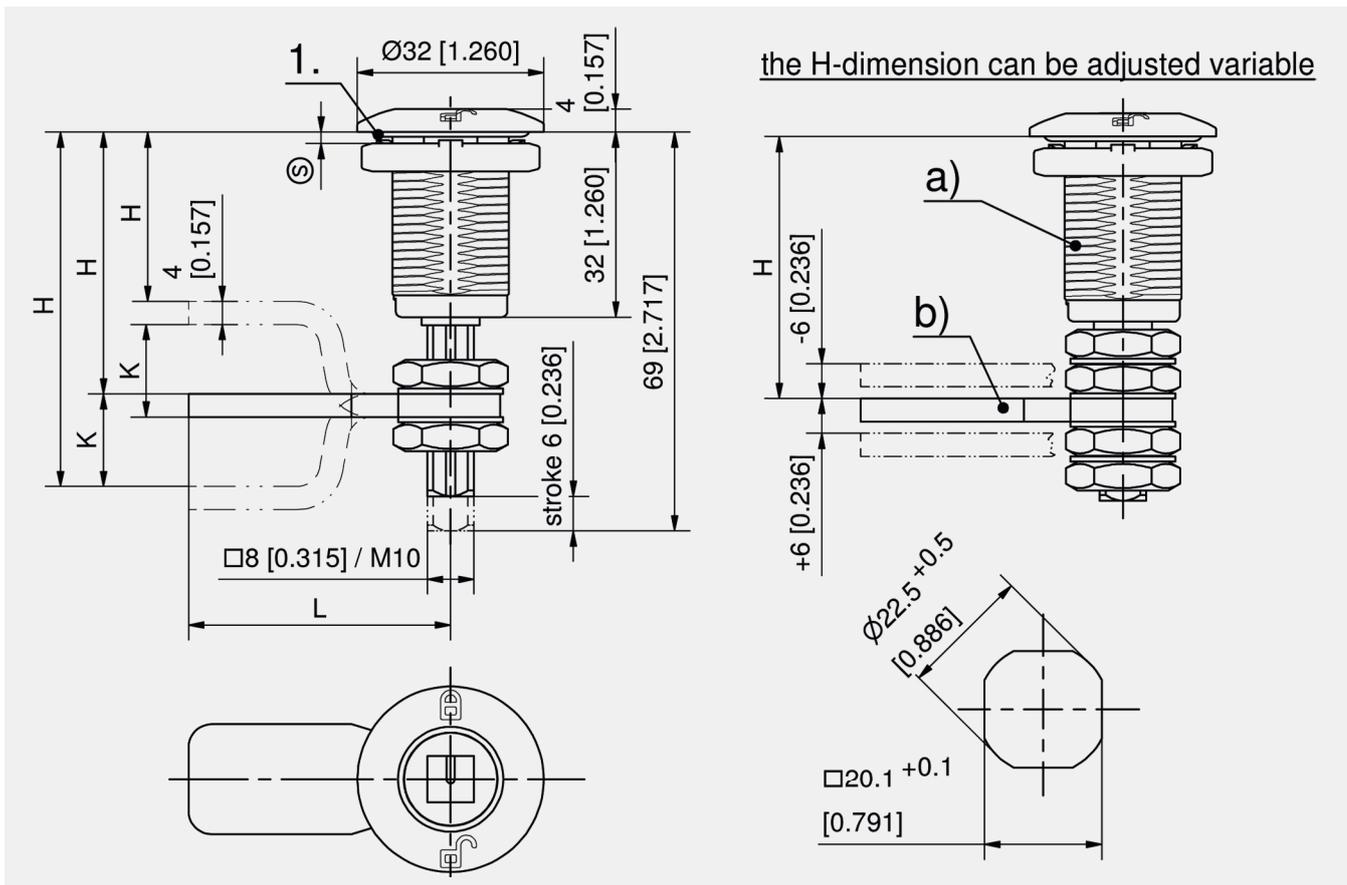
- 0= without Cam
- 1= Cam not assembled (attached loose)

**length of Cam:**

- 0= without Cam
- 1= L35
- 2= L45

**Cranked Cam CC:**

see table b)



### Compression Latch, version RH

|    | Part Number       | Insert                  | Door-thickness | Grounding type | Installation type | variable H-dimension | Construction depth |
|----|-------------------|-------------------------|----------------|----------------|-------------------|----------------------|--------------------|
| a) | 248-9200.00-00000 | Square 6 mm             | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9201.00-00000 | Square 7 mm             | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9202.00-00000 | Square 8 mm             | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9203.00-00000 | Double bit 3 mm pin     | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9204.00-00000 | Double bit 5 mm pin     | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9205.00-00000 | Triangular 6.5 mm       | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9206.00-00000 | Triangular 7 mm         | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9207.00-00000 | Triangular 8 mm         | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9209.00-00000 | Hex.SW 11               | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9208.00-00000 | Conical square 9 mm     | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9210.00-00000 | Conical triangular 7 mm | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |

### Compression Latch, version LH

|    | Part Number       | Insert                  | Door-thickness | Grounding type | Installation type | variable H-dimension | Construction depth |
|----|-------------------|-------------------------|----------------|----------------|-------------------|----------------------|--------------------|
| a) | 248-9250.00-00000 | Square 6 mm             | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9251.00-00000 | Square 7 mm             | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9252.00-00000 | Square 8 mm             | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9253.00-00000 | Double bit 3 mm pin     | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9254.00-00000 | Double bit 5 mm pin     | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9255.00-00000 | Triangular 6.5 mm       | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9256.00-00000 | Triangular 7 mm         | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9257.00-00000 | Triangular 8 mm         | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9259.00-00000 | Hex.SW 11               | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9258.00-00000 | Conical square 9 mm     | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |
| a) | 248-9260.00-00000 | Conical triangular 7 mm | max. 22 mm     | Grounding nut  | screw-on          | 17-73                | 69                 |



7-105.01

Cams L35/45 without Ramp and Stop



Hygiene Compression Latch  
on page 158.

Elegant low profile Quarter-turn.

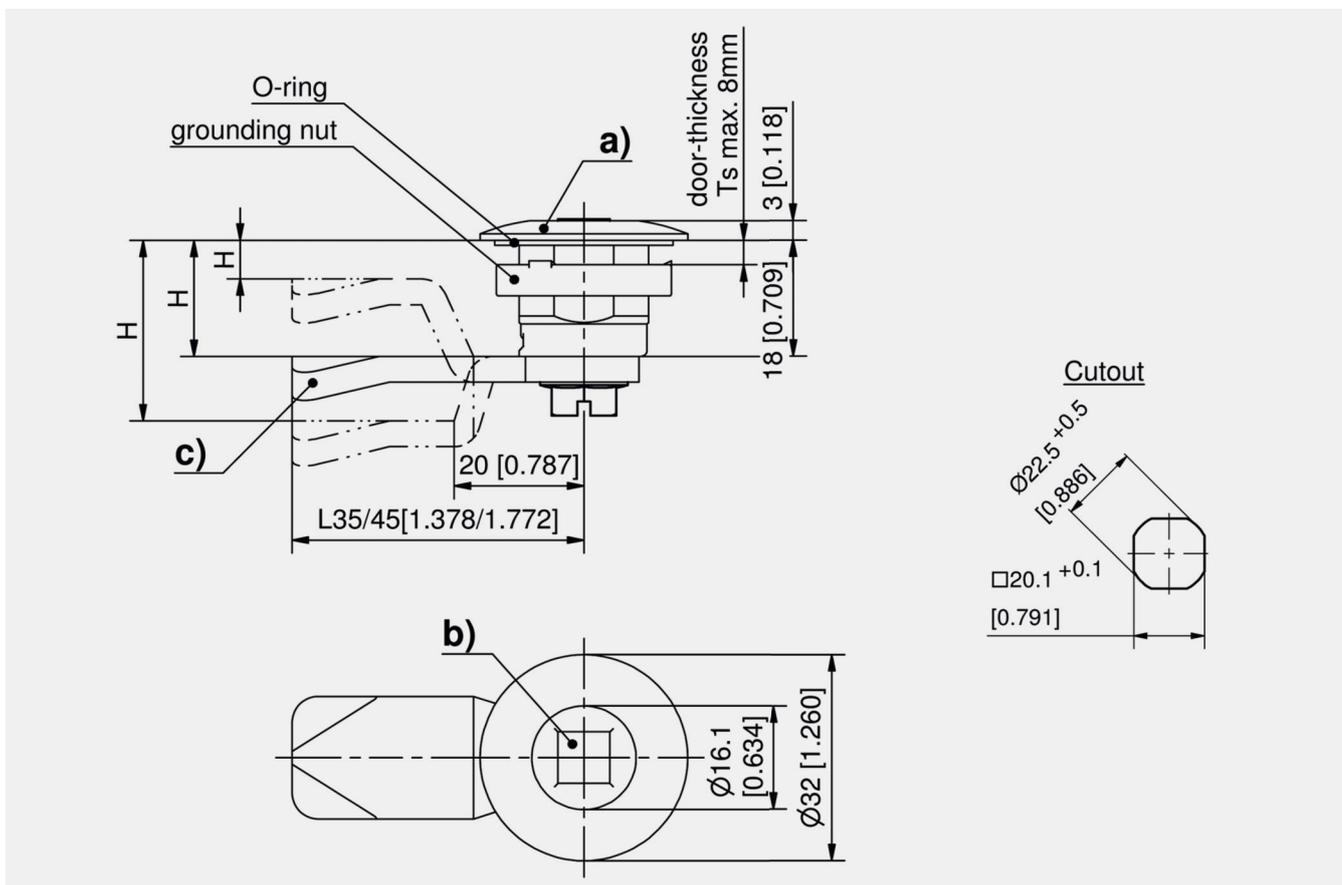
**Features**

- RH / LH application.
- Please configure the Quarter-turn with insert and cam.
- On request parts can be assembled.
- The Quarter-turn, stainless steel, can be screwed into the cutout with the pre-assembled cam.
- IP65 according to DIN EN 60529.
- IP67 according to DIN 60529 and IP69K according to DIN 40050 by: additional o-ring 200-1002.

**Material and surface**

- Housing:** stainless steel AISI 316
- Insert:** stainless steel AISI 316
- Cams and serrated screw:** stainless steel AISI 304
- O-rings:** NBR
- Grounding nut:** stainless steel AISI 316L

**Note**  
(S) = max. 8 mm



**Quarter-turn**

|    | Part Number       | Housing length | Door-thickness | Material        | Grounding type | Installation type |
|----|-------------------|----------------|----------------|-----------------|----------------|-------------------|
| a) | 100-9601.00-00000 | L18            | max. 8 mm      | stainless steel | Grounding nut  | screw-on          |

| + | Function extension | Part Number       |
|---|--------------------|-------------------|
|   | O-ring 10 x 2.0 mm | 200-1002.00-00000 |

| ⚙️ | Assembly options           | Part Number       |
|----|----------------------------|-------------------|
|    | Assembling cam with o-ring | 200-0002.00-00000 |



Quarter-turn with insert SW13 for hygienic applications.

**Features**

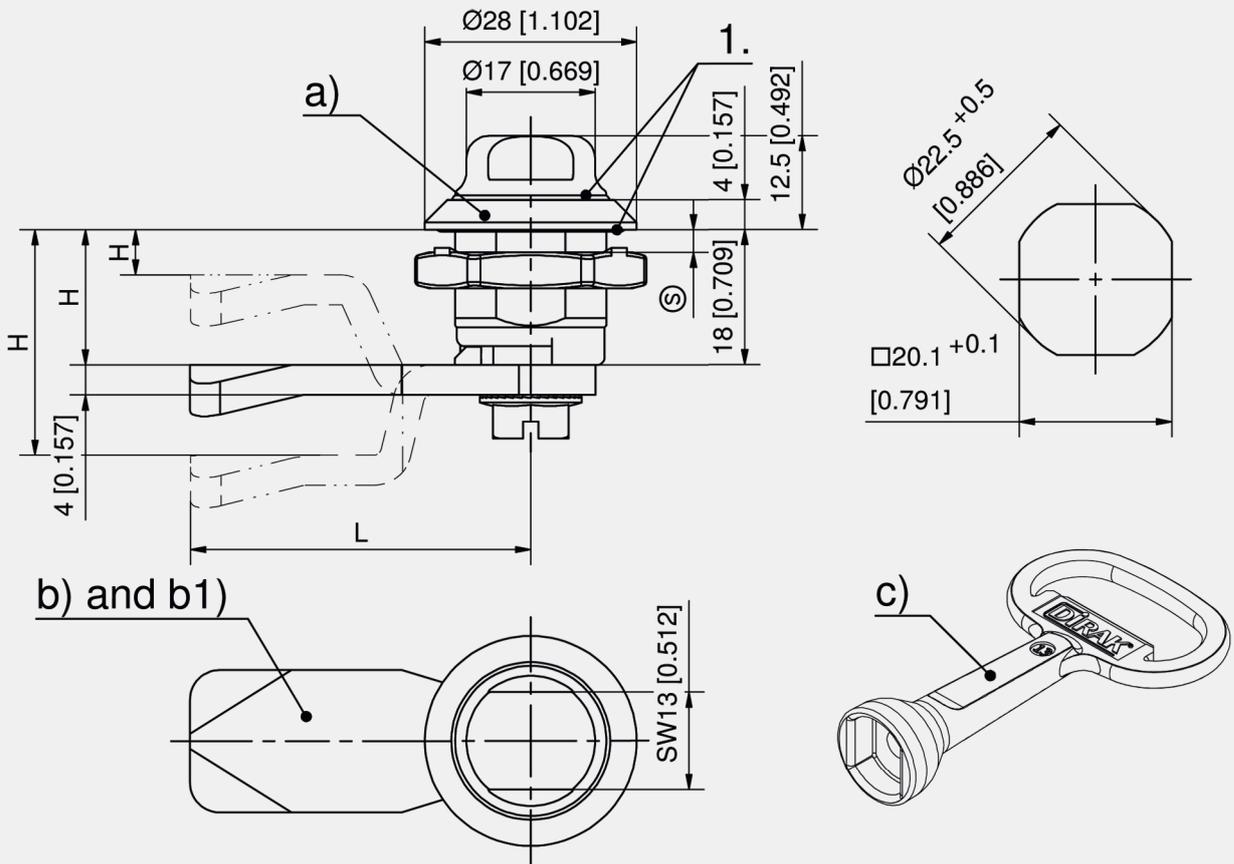
- Meets hygiene requirements acc. to DIN EN ISO 14159 and DIN EN 1672-2.
- Easy to clean.
- IP67 / 69K according to DIN EN 60529 / DIN 40050.
- O-rings (FDA conform) prevent dirt deposits and penetration of liquids.
- RH / LH application.

**Material and surface**

**Housing, insert and grounding nut:** stainless steel AISI 316L  
**Cam and serrated screw:** stainless steel AISI 304  
**O-rings:** silicone, FDA conform, red or blue

**Note**

(S) = max. 8 mm  
 1. = O-rings



Quarter-turn

|    | Part Number       | Insert | Housing length | Material        | Grounding type | Installation type | Version     |
|----|-------------------|--------|----------------|-----------------|----------------|-------------------|-------------|
| a) | 100-9501.00-00000 | SW13   | L18            | stainless steel | Grounding nut  | screw-on          | red o-ring  |
| a) | 100-9501.00-00001 | SW13   | L18            | stainless steel | Grounding nut  | screw-on          | blue o-ring |

|  |                   |                        |
|--|-------------------|------------------------|
|  | 204-0140.39-05010 | Female key hollow SW13 |
|--|-------------------|------------------------|

|  | Assembly options           | Part Number       |
|--|----------------------------|-------------------|
|  | Assembling cam with o-ring | 200-0002.00-00000 |

# Hygiene Quarter-Turn with Insert Square SW13 [7-081.01HD]

Specially developed Hygiene stainless steel Quarter-turn (HD, Hygienic Design) with insert square SW13, for applications in the food sector and hygienic areas.

## Features

- Tested according to: GS-NV 2:2013/06 Principles for the testing of food processing machines GS-NV 6:2013/06 Principles for the testing of hygiene requirements. Machine Ordinance: DIN EN 1672-2:2009.
- DGUV Test Certificate NV 13090.
- Dirt resistant and easy to clean by means of polished surface and transition radii.
- RH / LH application.
- IP 65/67/69K according to DIN EN 60529 / DIN 40050.

## Material and surface

**Housing and insert:** stainless steel AISI 316L

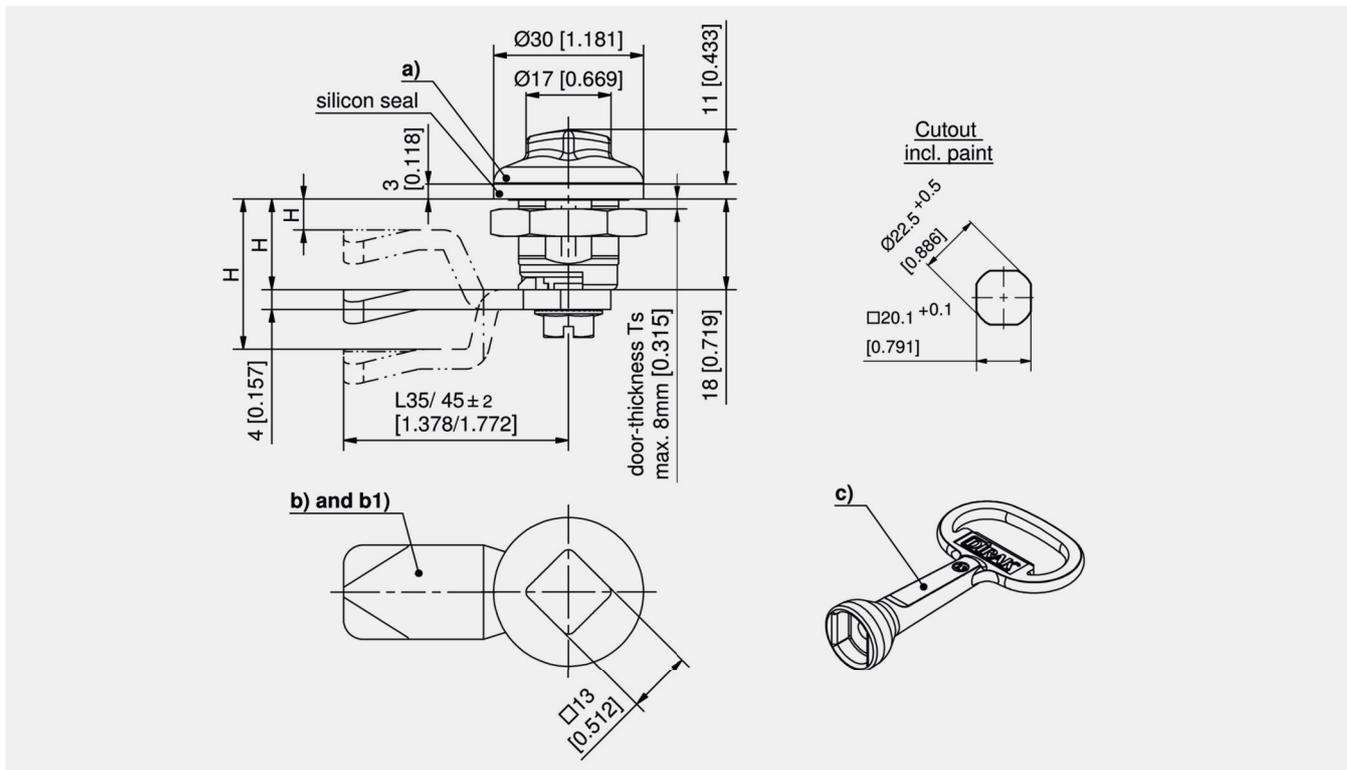
**Grounding nut and serrated screw:** stainless steel

**Seal:** silicone, blue, FDA conform (Food and Drug Administration)

## Note

Cam can be delivered pre-assembled upon request. A pre-assembled Quarter-Turn can be installed in the cutout.

(S) = max. 8 mm



## Hygiene Quarter-turn

|    | Part Number       | Insert | Housing length | Door-thickness | Material        | Grounding type | Installation type      |
|----|-------------------|--------|----------------|----------------|-----------------|----------------|------------------------|
| a) | 100-9503.00-00000 | SW13   | L18            | max. 8 mm      | stainless steel | Grounding nut  | screw-on               |
| *  | 204-0140.39-05010 |        |                |                |                 |                | Female key hollow SW13 |

|    | Assembly options        | Part Number       |
|----|-------------------------|-------------------|
| ⚙️ | Assembling cam, LH door | 200-0020.00-00000 |
|    | Assembling cam, RH door | 200-0021.00-00000 |



Specially developed Hygiene stainless steel Quarter-turn with T-handle (HD, Hygienic design), for applications in the food sector and hygienic areas.

**Features**

- Tested according to: GS-NV 2:2013/06 Principles for the testing of food processing machines GS-NV 6:2013/06 Principles for the testing of hygiene requirements. Machine Ordinance: DIN EN 1672-2:2009.
- DGUV Test Certificate NV 13090.
- Dirt resistant and easy to clean by means of polished surface and transition radii.
- RH / LH application.
- IP 65/67/69K according to DIN EN 60529 / DIN 40050.

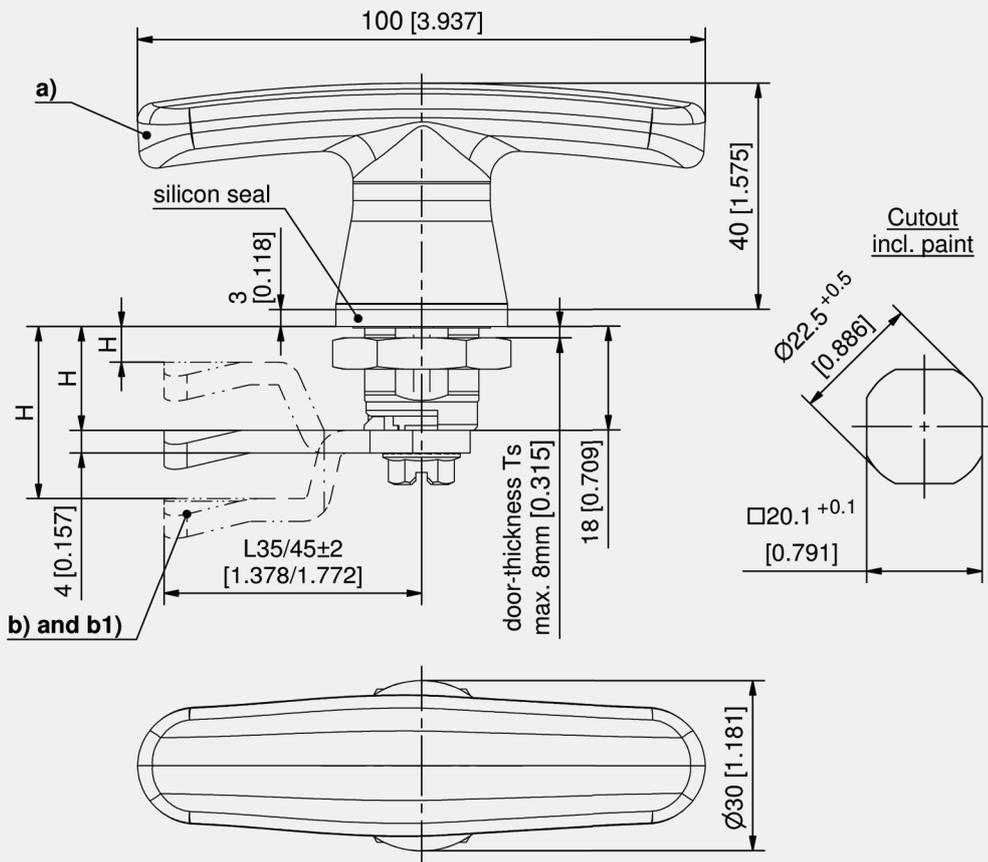
**Material and surface**

**Housing and Handle:** stainless steel AISI 316 L  
**Grounding nut and serrated screws:** stainless steel  
**Seal:** silicone, blue, FDA conform (Food and Drug Administration)

**Note**

Cam can be delivered pre-assembled upon request. A pre-assembled Quarter-Turn can be installed in the cutout.

(S) = max. 8 mm



Hygiene Quarter-turn with T-Handle

| Part Number          | Material        | Grounding type |
|----------------------|-----------------|----------------|
| a) 100-9313.00-00000 | stainless steel | Grounding nut  |

Specially developed Hygiene stainless steel Quarter-turn with L-Handle (HD, Hygienic design), for applications in the food sector and hygienic areas.

**Features**

- Tested according to: GS-NV 2:2013/06 Principles for the testing of food processing machines GS-NV 6:2013/06 Principles for the testing of hygiene requirements. Machine Ordinance: DIN EN 1672-2:2009
- DGUV Test Certificate NV 13090.
- Dirt resistant and easy to clean by means of polished surface and transition radii.
- RH / LH application.
- IP 65/67/69K according to DIN EN 60529 / DIN 40050.

**Material and surface**

**Housing and Handle:** stainless steel AISI 316L

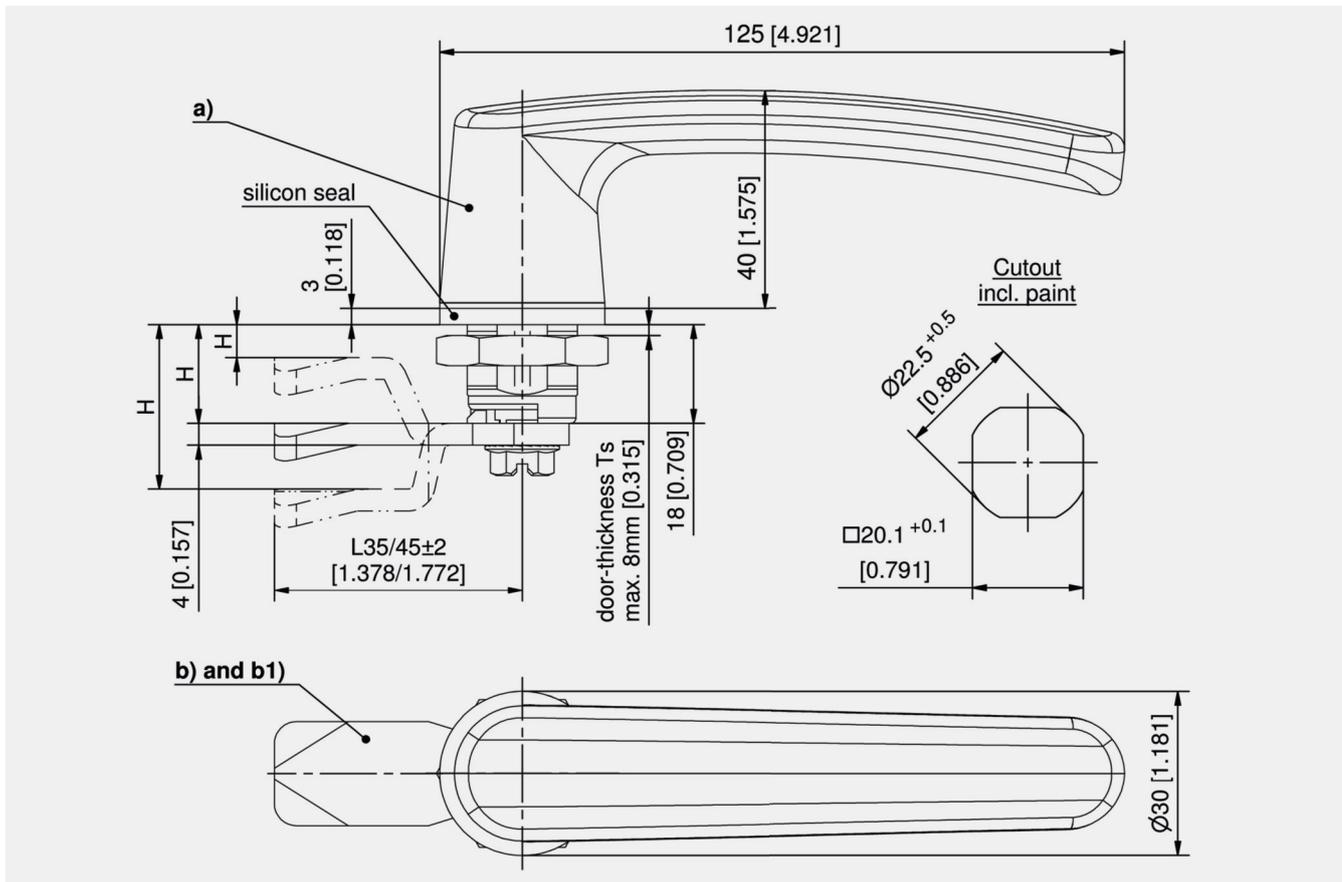
**Grounding nut and serrated screws:** stainless steel

**Seal:** Silicon, blue, FDA conform (Food and Drug Administration)

**Note**

Cam can be delivered pre-assembled upon request. A pre-assembled Quarter-Turn can be installed in the cutout.

(S) = max. 8 mm



Hygiene Quarter-turn with L-Handle

|    | Part Number       | Material        | Grounding type |
|----|-------------------|-----------------|----------------|
| a) | 100-9416.00-00000 | stainless steel | Grounding nut  |



Specially developed stainless steel Hygiene Compression Latch (HD, Hygienic Design) with insert square SW13, for applications in the food sector and hygienic areas.

**Features**

- Compression 4 mm.
- Vibration-proof according to DIN EN 61373.
- The complete Quarter-Turn is certified and tested according to: GS-NV 2:2013/06 Principles for the testing of food processing machines GS-NV 6:2013/06 Principles for the testing of hygiene requirements. Machine Ordinance: DIN EN 1672-2:2009.
- DGUV Test Certificate NV 13090.
- IP 65/67/69K according to DIN EN 60529 / DIN 40050.

**Material and surface**

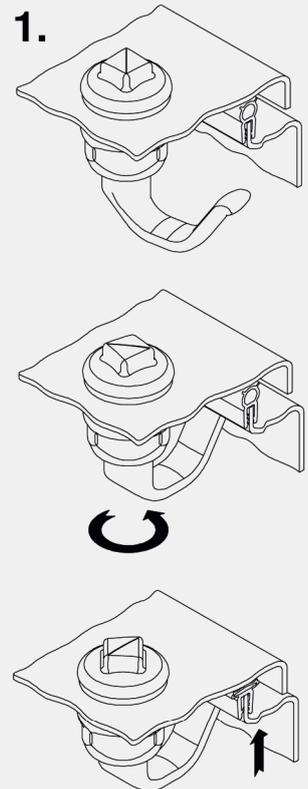
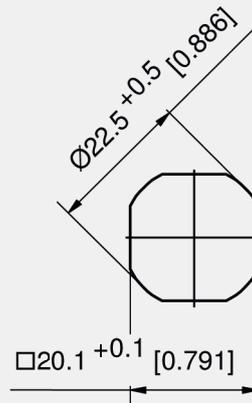
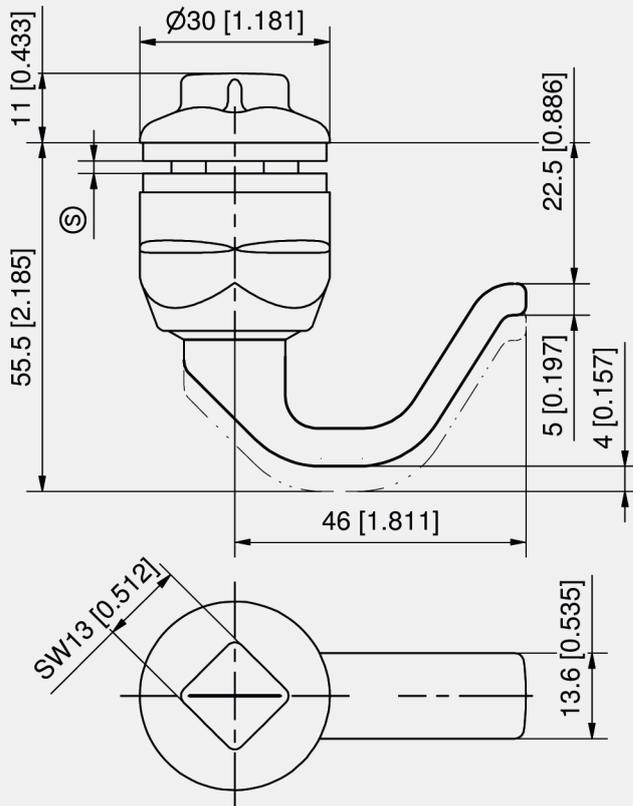
**Housing, insert, nut, cam:** stainless steel AISI 316L  
**Seal:** silicone, blue, FDA conform ( Food and Drug Administration)

**Note**

The compression latch is delivered with assembled cam. Can be installed completely.

(S) = max. 4 mm

1) Operation



Hygiene compression latch

| Part Number       | Insert | Door-thickness | Installation type | Version | Compression |
|-------------------|--------|----------------|-------------------|---------|-------------|
| 100-9504.00-00000 | SW13   | max. 4 mm      | screw-on          | RH      | 4           |
| 100-9505.00-00000 | SW13   | max. 4 mm      | screw-on          | LH      | 4           |

|   |                   |                        |  |  |  |
|---|-------------------|------------------------|--|--|--|
| * | 204-0140.39-05010 | Female key hollow SW13 |  |  |  |
|---|-------------------|------------------------|--|--|--|

certificate  
 no. **NV 13090**  
 dated 27.06.2013

Translation

## DGUV Test Certificate

Name and address of the holder of the certificate: (customer) **DIRAK Dieter Ramsauer Konstruktionselemente GmbH**  
 Königsfelder Str. 1  
 D 58256 Ennepetal

Name and address of the manufacturer: dto.

Product designation: **HD-Drehriegel**

Type: Drehriegel für Lochbild 20,1 x 22,5

Intended purpose: see associated test report

Testing based on: Hygiene requirements:  
 GS-NV 2:2013/06 Principles for the testing of food processing machines  
 GS-NV 6:2013/06 Principles for the testing of hygiene requirements  
 Neunte Verordnung zum Produktsicherheitsgesetz (Maschinenverordnung)  
 DIN EN 1672-2:2009

Remarks: The certificate refers to the conception of the product described in the associated test report.  
 In das DGUV Test-Zeichen ist außer der Bescheinigungs-Nr. auch der Hinweis "Hygiene geprüft" einzufügen.

The type tested complies with the test basis specified above.  
 The holder of the certificate is entitled to affix the DGUV Test-mark shown overleaf to the products complying with the type tested, including the specification given under the heading 'remarks'.

The present certificate is valid until: **26.06.2018**

Further provisions concerning the validity, the extension of the validity and other conditions are laid down in the Rules of Procedure for Testing and Certification of August 2012.

.....  
 Signature (Zertifizierer)

Postal address: Postfach 10 04 41 • 68136 Mannheim • Office: Dynamostraße 7-11 • 68165 Mannheim  
 Phone: 0621 4456-3430 • Fax: 0800197755316-625 • E-Mail: maschinensicherheit@bgn.de • www.pz.bgn.de  
 Our reference: 612.17 Bai/Rm • Produktschlüsselnummer: 91011



Elegant, low profile Quarter-turn with housing lengths 18, 30, 36 and 50 mm and marked red/green (padlock) on the housing top.

**Features**

- Please configure the Quarter-turn with insert and cam.
- Housing L18 is water- and dust-tight according to IP65 DIN EN 60529. It can reach IP67 DIN EN 60529 by additional O-ring (200-1002.00-00000).
- Housings L30 to L50 can reach IP65/67 DIN EN 60529 by additional O-ring (839-3771.00-00935).

**Material and surface**

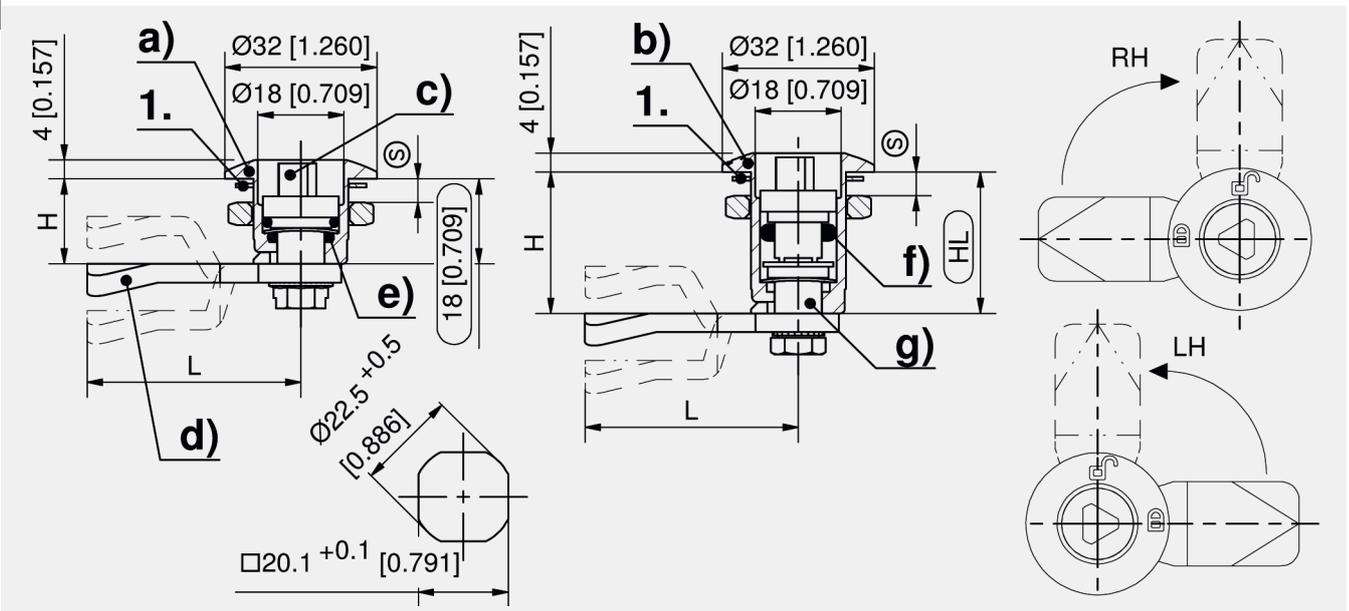
**Housing, insert, grounding nut:** stainless steel AISI 316L

**Flat external seal:** NBR

**Note**

Adapter sets can consist of one or more separate extensions. A pre-assembled Quarter-turn can be installed through the cutout.

- 1. = Flat external seal
- c) = Insert
- d) = Cam
- e) = O-ring 10 x 2.0 mm
- f) = O-ring 9 x 3.5 mm
- g) = Adapter set



Housing with latched / unlatched indicator, flat seal and grounding nut

|    | Part Number       | Housing length | Door-thickness | Material        | Grounding type | Version | suitable adapter set |
|----|-------------------|----------------|----------------|-----------------|----------------|---------|----------------------|
| a) | 100-9092.RH-00000 | HL18           | max. 8 mm      | stainless steel | Grounding nut  | RH      |                      |
| a) | 100-9092.LH-00000 | HL18           | max. 8 mm      | stainless steel | Grounding nut  | LH      |                      |
| b) | 100-9093.RH-00000 | HL30           | max. 20 mm     | stainless steel | Grounding nut  | RH      | L14                  |
| b) | 100-9093.LH-00000 | HL30           | max. 20 mm     | stainless steel | Grounding nut  | LH      | L14                  |
| b) | 100-9094.RH-00000 | HL36           | max. 26 mm     | stainless steel | Grounding nut  | RH      | L21                  |
| b) | 100-9094.LH-00000 | HL36           | max. 26 mm     | stainless steel | Grounding nut  | LH      | L21                  |
| b) | 100-9095.RH-00000 | HL50           | max. 40 mm     | stainless steel | Grounding nut  | RH      | L33                  |
| b) | 100-9095.LH-00000 | HL50           | max. 40 mm     | stainless steel | Grounding nut  | LH      | L33                  |

|   |                   |                 |
|---|-------------------|-----------------|
| ✳ | 100-9019.00-00000 | Adapter set L14 |
|   | 100-9020.00-00000 | Adapter set L21 |
|   | 100-9022.00-00000 | Adapter set L33 |

|   | Function extension | Part Number       |
|---|--------------------|-------------------|
| + | O-ring 9 x 3.5 mm  | 839-3771.00-00935 |
|   | O-ring 10 x 2.0 mm | 200-1002.00-00000 |

|   | Assembly options                | Part Number       |
|---|---------------------------------|-------------------|
| ⚙ | Assembling cam with o-ring      | 200-0002.00-00000 |
|   | Assembling adapter, with o-ring | 200-0004.00-00000 |

Cylinder Quarter-turn stainless steel version with grounding nut.

**Features**

- Version a)
- RH / LH application.
- For stability the cylinder barrel is secured by a nut DIN 934.
- The wave washer fitted between housing and cam, prevents the cam from moving downwards in un-locked position and neutralizes possible cumulative play.
  
- Version a1) and a2)
- To insure turns freely, the slam-cam is secured by a shoulder screw.

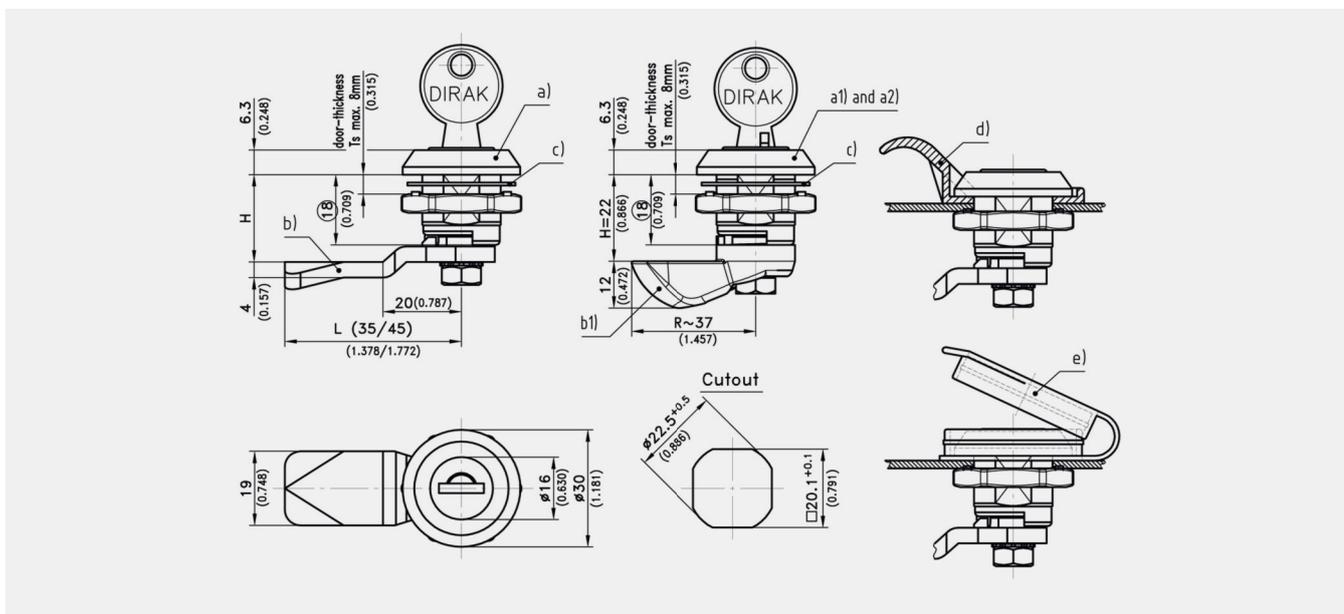
**Material and surface**

**Housing, grounding nut, adapter, cylinder barrel, hexagon nut and wave washer: stainless steel AISI 316**

**Note**

Water- and dust-tight according to IP65 DIN EN 60529 only with dust cap, see product system 1-270.

(S) = max. 8 mm



**Cylinder Quarter-turn**

|    | Part Number       | Closing                | Housing length | Door-thickness | Material        | Grounding type | Installation type |
|----|-------------------|------------------------|----------------|----------------|-----------------|----------------|-------------------|
| a) | 200-9232.00-00000 | keyed alike DIRAK 1333 | L18            | max. 8 mm      | stainless steel | Grounding nut  | screw-on          |
| a) | 200-9233.00-00000 | keyed different        | L18            | max. 8 mm      | stainless steel | Grounding nut  | screw-on          |

**Cylinder Quarter-turn, with slam cam and adapter**

|     | Part Number       | Closing                | Housing length | Door-thickness | Material        | Grounding type | Installation type | Version |
|-----|-------------------|------------------------|----------------|----------------|-----------------|----------------|-------------------|---------|
| a1) | 200-9236.00-01333 | keyed alike DIRAK 1333 | L18            | max. 8 mm      | stainless steel | Grounding nut  | screw-on          | RH      |
| a1) | 200-9236.00-99999 | keyed different        | L18            | max. 8 mm      | stainless steel | Grounding nut  | screw-on          | RH      |
| a2) | 200-9237.00-01333 | keyed alike DIRAK 1333 | L18            | max. 8 mm      | stainless steel | Grounding nut  | screw-on          | LH      |
| a2) | 200-9237.00-99999 | keyed different        | L18            | max. 8 mm      | stainless steel | Grounding nut  | screw-on          | LH      |

|  |                   |                                   |  |  |  |  |  |
|--|-------------------|-----------------------------------|--|--|--|--|--|
|  | 200-0901.00-00000 | Scratch protection 20.1, Ø22.5 mm |  |  |  |  |  |
|--|-------------------|-----------------------------------|--|--|--|--|--|



RoHS  
WEEE



**Features**

- a), a1) = straight cam (xx)
- (xx) = Housing length, measured from the upper edge of the panel to the upper edge of the cam.
- b), b1) = negatively bent cam (upwards)
- c), c1) = positively bent cam (downwards)

**Material and surface**

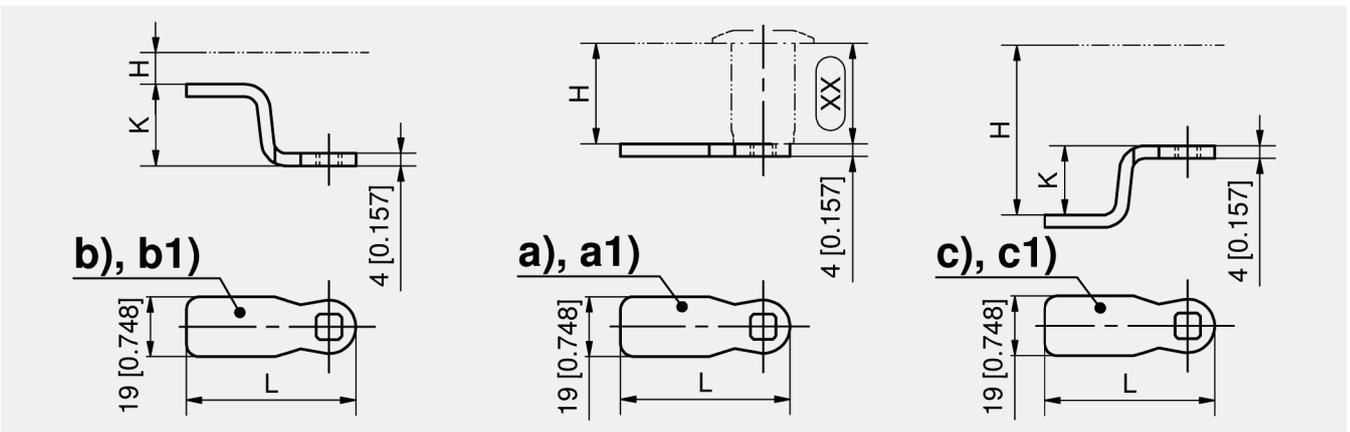
Cams: stainless steel AISI 304

**Note**

Formula for H-dimension =

For negatively bent cams K will be subtracted from (xx).

For positively bent cams K will be added to (xx).



Cam, length 35 mm, without stop

|    | Part Number       | Material        | Length L | b) negatively bent K = | c) positively bent K = |
|----|-------------------|-----------------|----------|------------------------|------------------------|
|    | 100-0535.80-00022 | stainless steel | L35      | 26                     | 22                     |
|    | 100-0535.80-00020 | stainless steel | L35      | 24                     | 20                     |
|    | 100-0535.80-00018 | stainless steel | L35      | 22                     | 18                     |
|    | 100-0535.80-00016 | stainless steel | L35      | 20                     | 16                     |
|    | 100-0535.80-00014 | stainless steel | L35      | 18                     | 14                     |
|    | 100-0535.80-00012 | stainless steel | L35      | 16                     | 12                     |
|    | 100-0535.80-00010 | stainless steel | L35      | 14                     | 10                     |
|    | 100-0535.80-00008 | stainless steel | L35      | 12                     | 8                      |
|    | 100-0535.80-00006 | stainless steel | L35      | 10                     | 6                      |
|    | 100-0535.80-00004 | stainless steel | L35      | 8                      | 4                      |
|    | 100-0535.80-00002 | stainless steel | L35      | 6                      | 2                      |
| a) | 100-0535.80-00000 | stainless steel | L35      | 00 straight            | 00 straight            |

Cam, length 45 mm, without stop

|     | Part Number       | Material        | Length L | b1) negatively bent K = | c1) positively bent K = |
|-----|-------------------|-----------------|----------|-------------------------|-------------------------|
|     | 100-0545.80-00022 | stainless steel | L45      | 26                      | 22                      |
|     | 100-0545.80-00020 | stainless steel | L45      | 24                      | 20                      |
|     | 100-0545.80-00018 | stainless steel | L45      | 22                      | 18                      |
|     | 100-0545.80-00016 | stainless steel | L45      | 20                      | 16                      |
|     | 100-0545.80-00014 | stainless steel | L45      | 18                      | 14                      |
|     | 100-0545.80-00012 | stainless steel | L45      | 16                      | 12                      |
|     | 100-0545.80-00010 | stainless steel | L45      | 14                      | 10                      |
|     | 100-0545.80-00008 | stainless steel | L45      | 12                      | 8                       |
|     | 100-0545.80-00006 | stainless steel | L45      | 10                      | 6                       |
|     | 100-0545.80-00004 | stainless steel | L45      | 8                       | 4                       |
|     | 100-0545.80-00002 | stainless steel | L45      | 6                       | 2                       |
| a1) | 100-0545.80-00000 | stainless steel | L45      | 00 straight             | 00 straight             |

3- and 4-Point cam adapter alternative to 2- or 3-point cam, see product system 7-105.

**Features**

- For use in combination with standard cams see product-system 1-102 and 7-080, used for 3- and 4-point latching applications.
- For 4-point application use additional link. For those applications, where beyond the standard control of 2 locking-rods, an additional rod can be used (e.g. controlling a switch or defeater-mechanism).

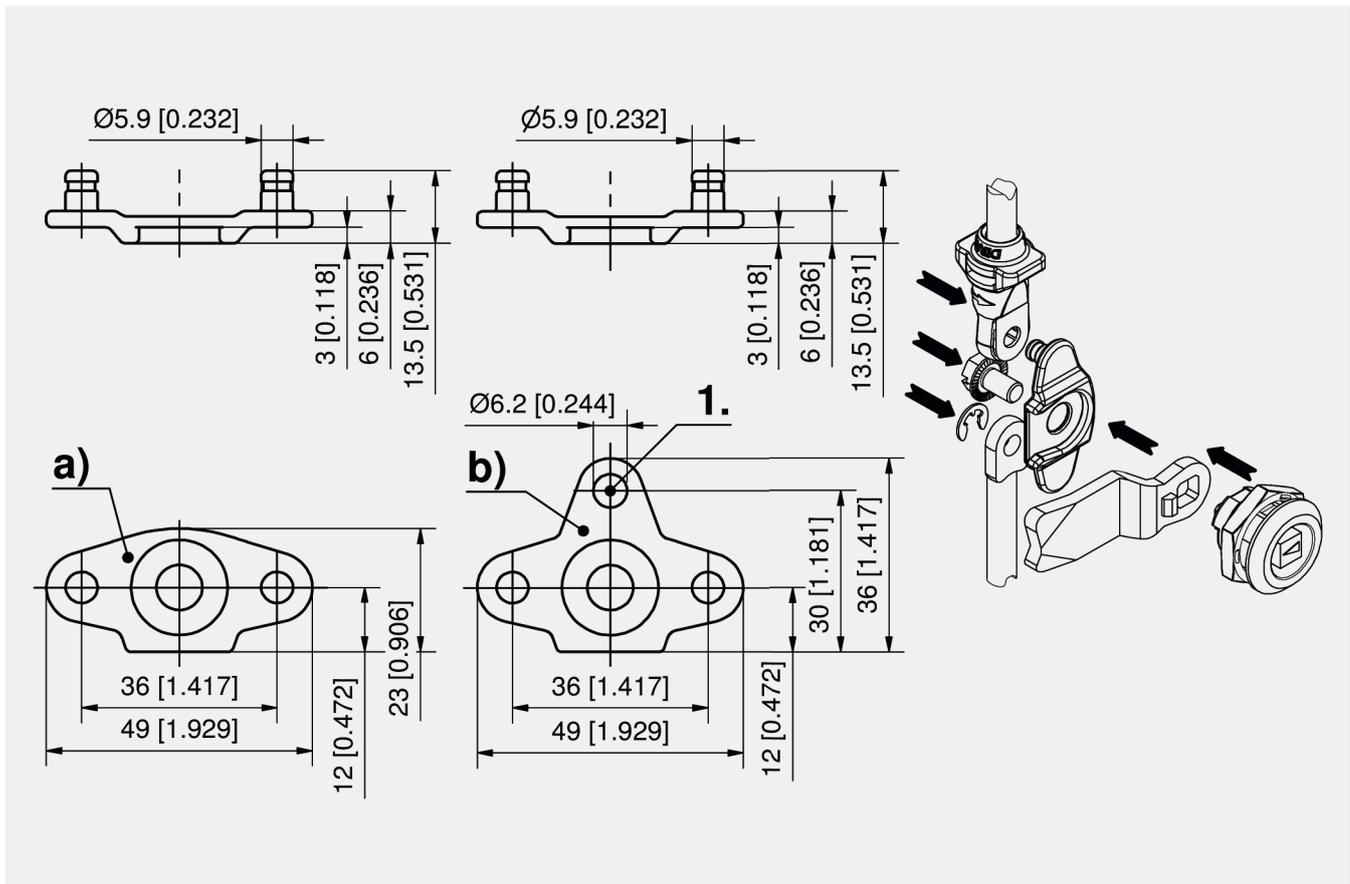
**Material and surface**

**Cam adapter:** stainless steel  
AISI 304

**Note**

The adapter is attached to the back of the cam and does **not** affect the H-dimension!

1. = Loop



Adapter for 3- or 4-point Cam

|    | Part Number       | Material        | 3-point cam | 4-point cam |
|----|-------------------|-----------------|-------------|-------------|
| a) | 207-9590.00-00000 | stainless steel | Yes         |             |
| a) | 207-9591.00-00000 | stainless steel | Yes         |             |
| b) | 207-9592.00-00000 | stainless steel | Yes         | Yes         |
| b) | 207-9593.00-00000 | stainless steel | Yes         | Yes         |



**Features**

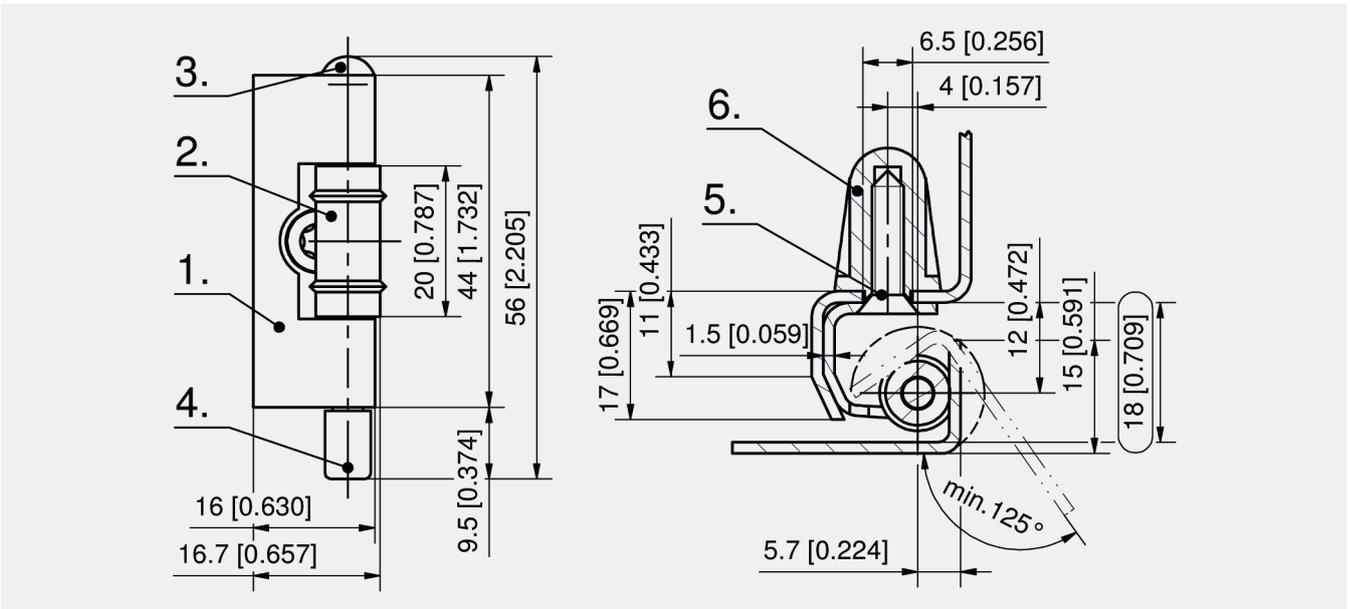
- For surface mounted doors.
- Hinge concealed.
- Door bending from 16 to 18 mm.
- RH / LH application.
- 125° Opening angle.
- Pin secured by bushing.
- Fastening material included.

**Material and surface**

- Frame-part:** stainless steel AISI 304
- Pin:** stainless steel AISI 301
- Weld-on roll for spot welding:** stainless steel AISI 303
- Fitting block:** PA6, black
- Securing bushing:** PE-LD black
- Self-tapping screw:** stainless steel

**Note**

1. = Pin
2. = Weld-on roll
3. = Frame-part
4. = Securing bushing
5. = Fitting block PA
6. = Self-tapping screw



Concealed Hinge

| Part Number       | Version                                      | Material Pin    | Installation type |
|-------------------|--|-----------------|-------------------|
| 216-9128.00-00000 | Screw T-20 ISO 14586 Form C 4.2 x 19 mm      | stainless steel | screw- / weld-on  |
| 216-9113.00-00000 | Screw Phillips DIN 7982 ISO 7050 4.2 x 19 mm | stainless steel | screw- / weld-on  |

### Features

- For surface mounted doors.
- Hinge concealed.
- Door bending 18 mm.
- RH / LH application.
- 120° Opening angle.
- Hinge pin secured by sleeve.
- Frame-part with force fitted stud M5 x 12.
- Door-part weld-on with prepared welding spots.

### Material and surface

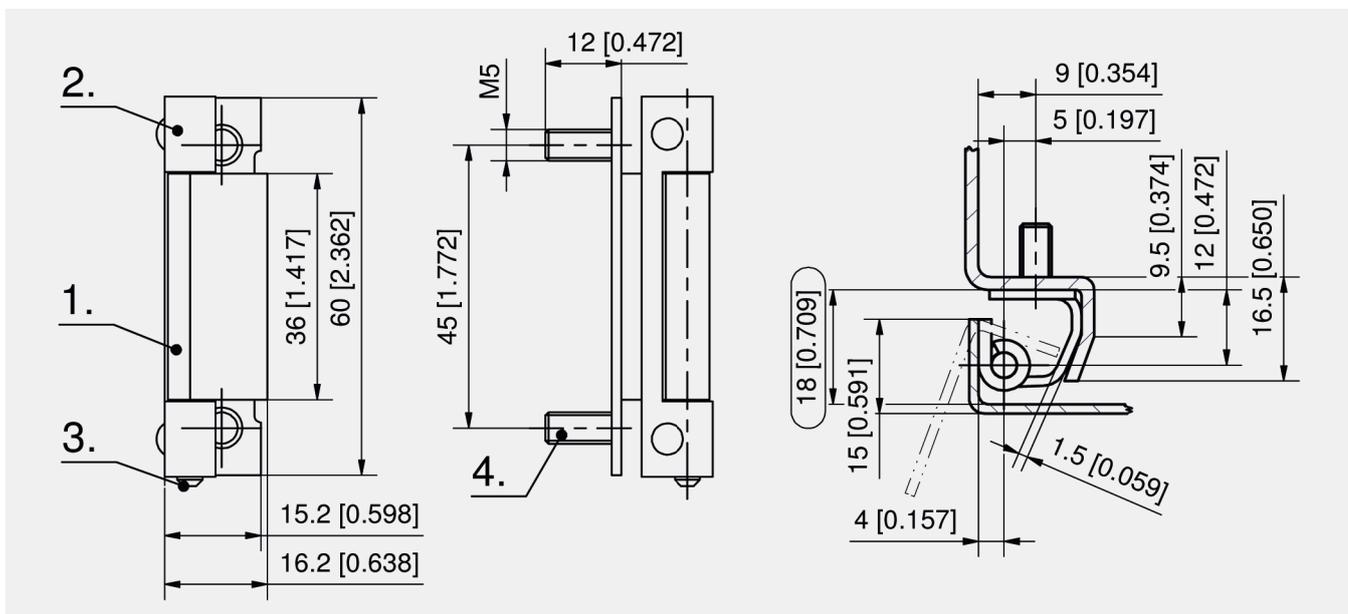
**Frame-part, door-part:** stainless steel AISI 304

**Knurled pin:** stainless steel AISI 303

**Stud:** stainless steel AISI 410

### Note

1. Frame-part
2. Door-part with weld projections ISO 8167-P5
3. Pin
4. Threaded stud M5 x 12



### Concealed Hinge

| Part Number       | Material Pin    | Installation type |
|-------------------|-----------------|-------------------|
| 216-9033.00-00000 | stainless steel | screw- / weld-on  |

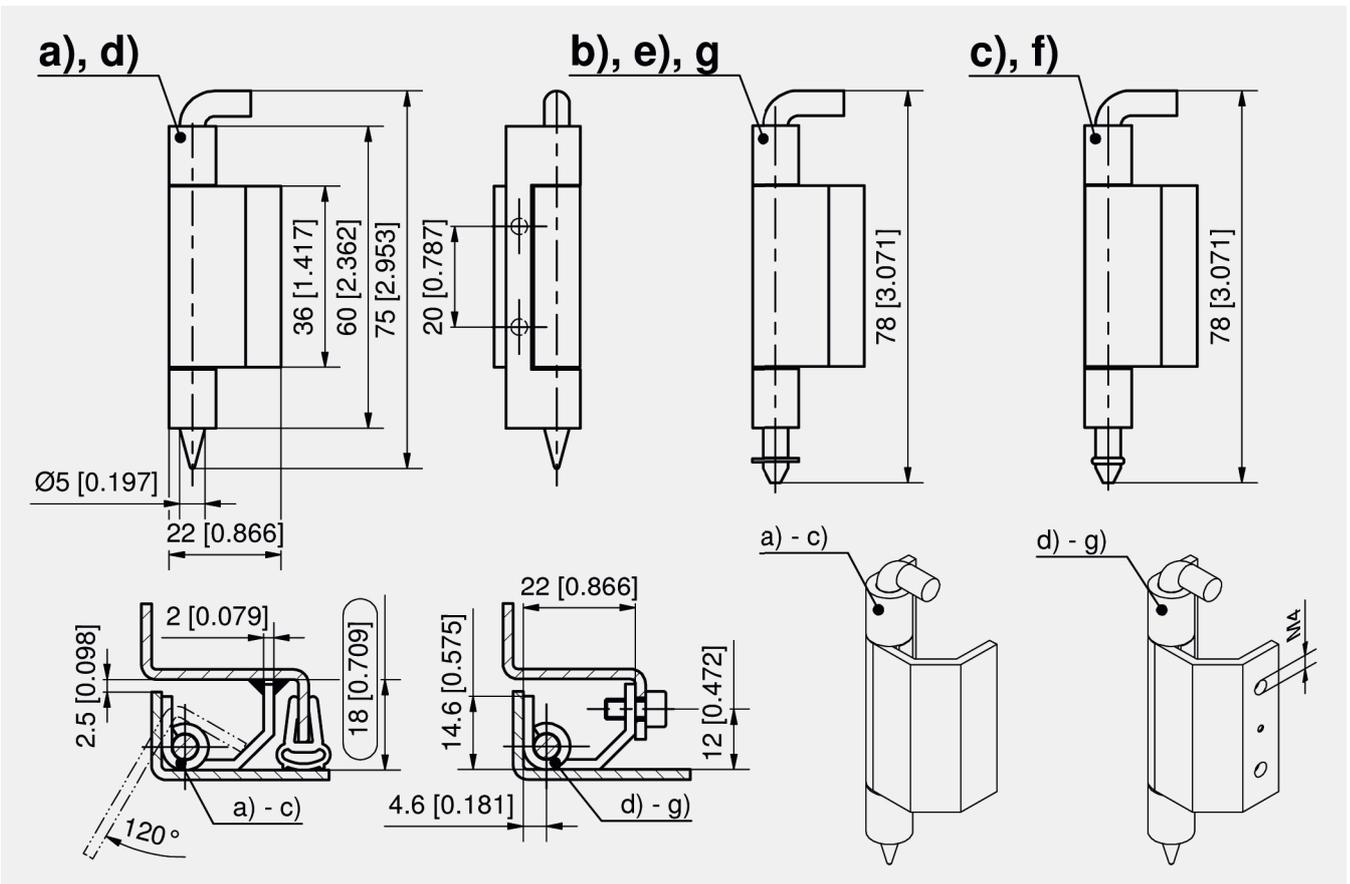


**Features**

- For surface mounted doors.
- Hinge concealed.
- Door bending 18 mm.
- RH / LH application.
- 120° Opening angle.
- Frame-part: screw-on or weld-on.

**Material and surface**

**Hinge-parts:** stainless steel  
AISI 304 or AISI 316L  
**Pins:** stainless steel AISI 303 or 316L



**Concealed Hinge**

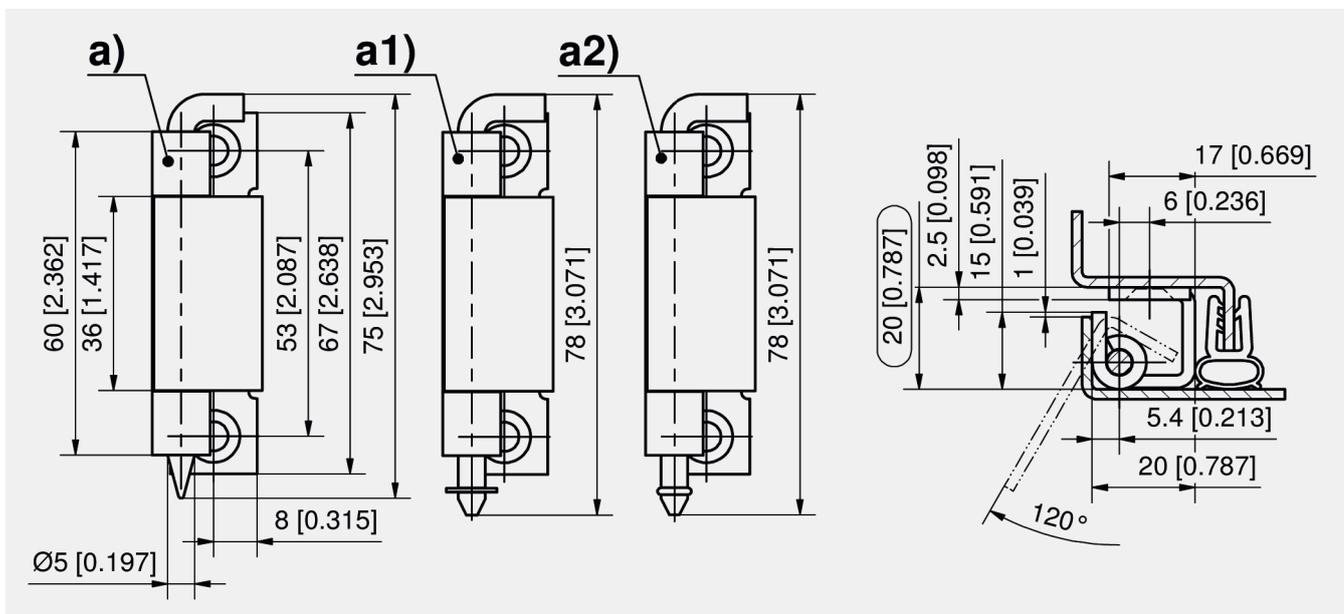
|    | Part Number       | Pin version                      | Material Pin | Installation type | Material Hinge-part |
|----|-------------------|----------------------------------|--------------|-------------------|---------------------|
| a) | 216-9101.00-00000 | without groove                   | AISI 303     | weld-on           | AISI 304            |
| b) | 216-9109.00-00000 | with groove incl. retaining ring | AISI 303     | weld-on           | AISI 304            |
| c) | 216-9109.00-00001 | with groove incl. o-ring         | AISI 303     | weld-on           | AISI 304            |
| d) | 216-9102.00-00000 | without groove                   | AISI 303     | screw- / weld-on  | AISI 304            |
| e) | 216-9110.00-00000 | with groove incl. retaining ring | AISI 303     | screw- / weld-on  | AISI 304            |
| f) | 216-9110.00-00001 | with groove incl. o-ring         | AISI 303     | screw- / weld-on  | AISI 304            |
| f) | 216-9121.00-00001 | with groove incl. o-ring         | AISI 316L    | screw- / weld-on  | AISI 316L           |
| g) | 216-9121.00-00002 | with groove incl. retaining ring | AISI 316L    | screw- / weld-on  | AISI 316L           |

### Features

- For surface mounted doors.
- Hinge concealed.
- Door bending 18 mm.
- RH / LH application.
- 120° Opening angle.
- Fastening with countersunk screws M5.

### Material and surface

**Hinge-parts and Pin:** stainless steel AISI 304  
a2)  
**O-ring:** NBR



### Concealed Hinge

|     | Part Number       | Pin version                      | Material Pin    | Installation type |
|-----|-------------------|----------------------------------|-----------------|-------------------|
| a)  | 216-9115.00-00000 | without groove                   | stainless steel | screw-on          |
| a1) | 216-9116.00-00000 | with groove incl. retaining ring | stainless steel | screw-on          |
| a2) | 216-9116.00-00001 | with groove incl. o-ring         | stainless steel | screw-on          |

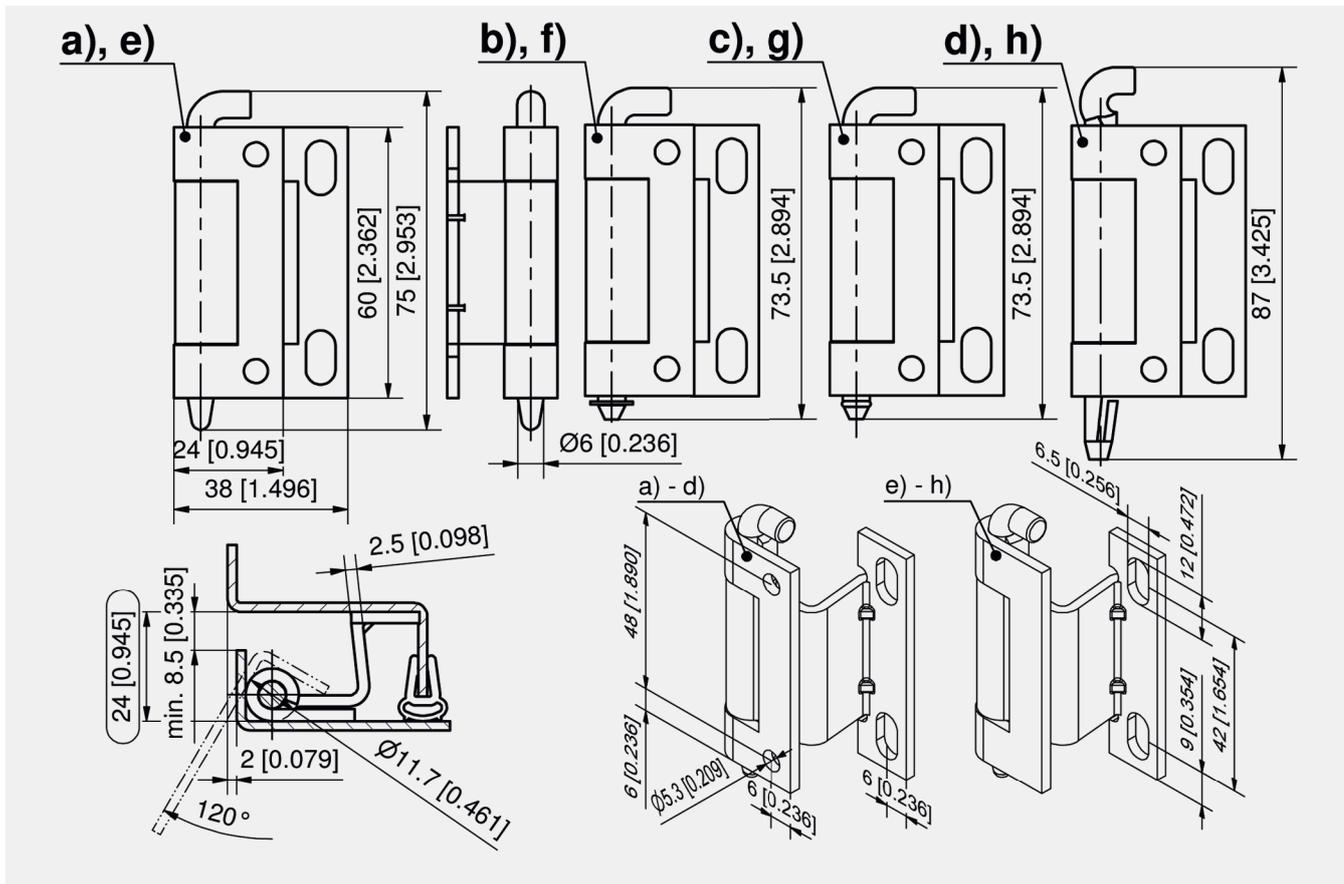


**Features**

- For surface mounted doors.
- Hinge concealed.
- Door bending 24 mm.
- RH / LH application.
- 120° Opening angle.
- Frame-part: screw-on.
- Door-part: weld-on or screw-on.
- The hinge can also be supplied with a self-securing POM pin which can be mounted upside-down for very short enclosures.

**Material and surface**

**Hinge-parts and Pin:** stainless steel AISI 304  
 d) and h)  
**Pin:** POM natural



**Concealed Hinge**

|    | Part Number       | Installation type door-part | Pin version                    | Material Pin    |
|----|-------------------|-----------------------------|--------------------------------|-----------------|
| a) | 216-9104.00-00000 | screw-on                    | without groove                 | stainless steel |
| b) | 216-9112.00-00000 | screw-on                    | with groove for retaining ring | stainless steel |
| c) | 216-9112.00-00001 | screw-on                    | with groove incl. o-ring       | stainless steel |
| d) | 216-9106.00-00000 | screw-on                    | self-securing                  | POM             |
| e) | 216-9122.00-00000 | weld-on                     | without groove                 | stainless steel |
| f) | 216-9126.00-00000 | weld-on                     | with groove for retaining ring | stainless steel |
| g) | 216-9126.00-00001 | weld-on                     | with groove incl. o-ring       | stainless steel |
| h) | 216-9124.00-00000 | weld-on                     | self-securing                  | POM             |



**Features**

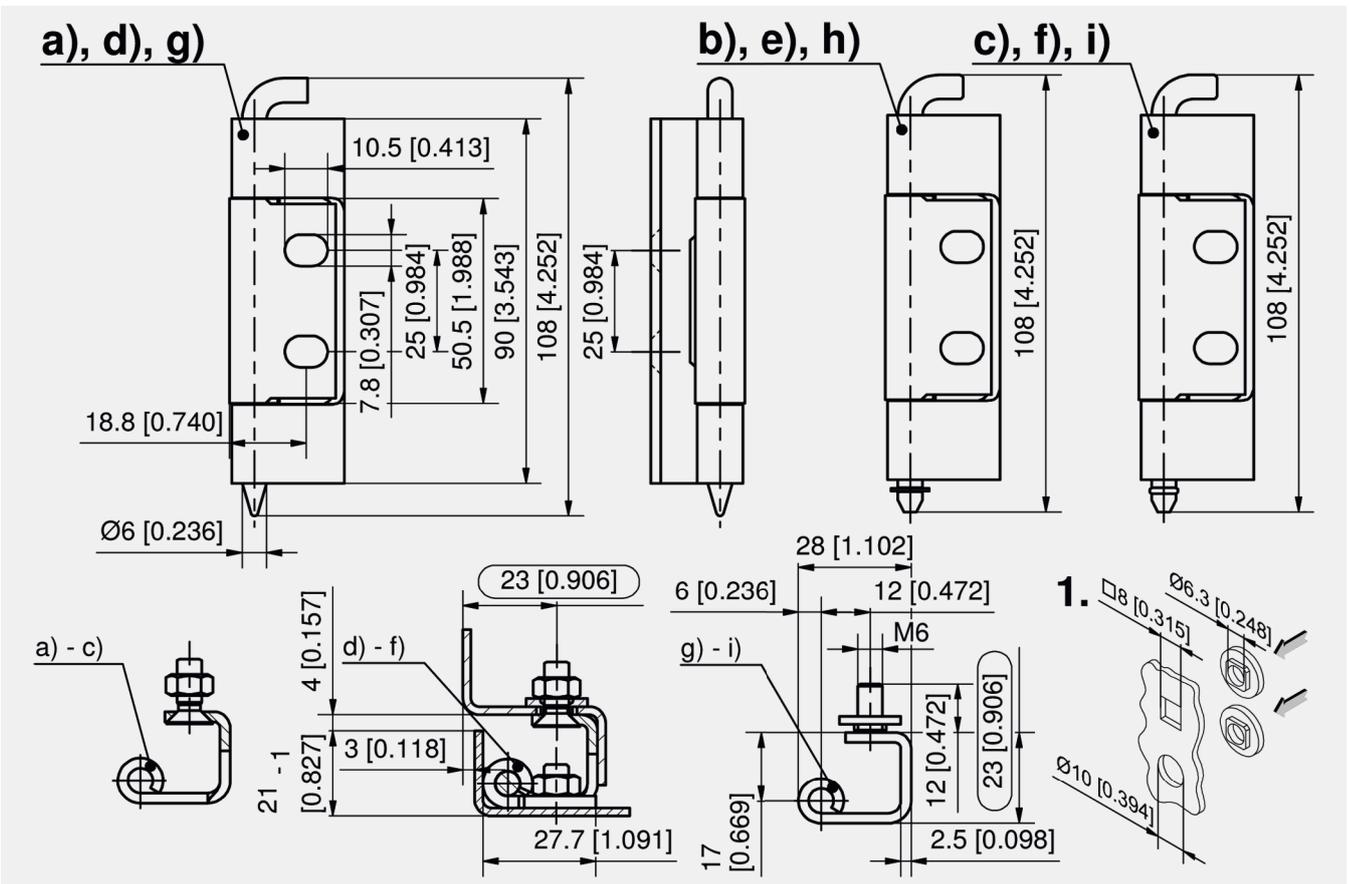
- For surface mounted doors.
- Hinge concealed.
- Door bending 23 mm.
- RH / LH application.
- 120° Opening angle.
- Door-part: weld-on or screw-on.

**Material and surface**

**Frame-part, door-part, pin without groove and fastening washer:** stainless steel AISI 304  
**Pin with groove:** stainless steel AISI 303  
**Stud:** stainless steel AISI 420  
**O-ring:** NBR

**Note**

1. = Installation instruction for fastening washer.



**Concealed Hinge**

|    | Part Number       | Frame-part                           | Cutouts in the frame | Pin version                      |
|----|-------------------|--------------------------------------|----------------------|----------------------------------|
| a) | 243-9203.00-00000 | with countersunk holes for M6        | Ø6.3 or M6           | without groove                   |
| b) | 243-9204.00-00000 | with countersunk holes for M6        | Ø6.3 or M6           | with groove incl. retaining ring |
| c) | 243-9204.00-00001 | with countersunk holes for M6        | Ø6.3 or M6           | with groove incl. o-ring         |
| d) | 243-9201.00-00000 | with holes for M6 + fastening washer | □8 or Ø10            | without groove                   |
| e) | 243-9202.00-00000 | with holes for M6 + fastening washer | □8 or Ø10            | with groove incl. retaining ring |
| f) | 243-9202.00-00001 | with holes for M6 + fastening washer | □8 or Ø10            | with groove incl. o-ring         |
| g) | 243-9208.00-00000 | with studs M6 + fastening washer     | Ø6.3, □8, Ø10        | without groove                   |
| h) | 243-9209.00-00000 | with studs M6 + fastening washer     | Ø6.3, □8, Ø10        | with groove incl. retaining ring |
| i) | 243-9209.00-00001 | with studs M6 + fastening washer     | Ø6.3, □8, Ø10        | with groove incl. o-ring         |

**Features**

- For surface mounted doors.
- Hinge concealed.
- Door bending 23 mm.
- RH / LH application.
- 120° Opening angle.
- By rotating the 1/4 turn, the pivot pin is released and the door can be removed by pulling it to the front. (see 2. and 3.)

**Material and surface**

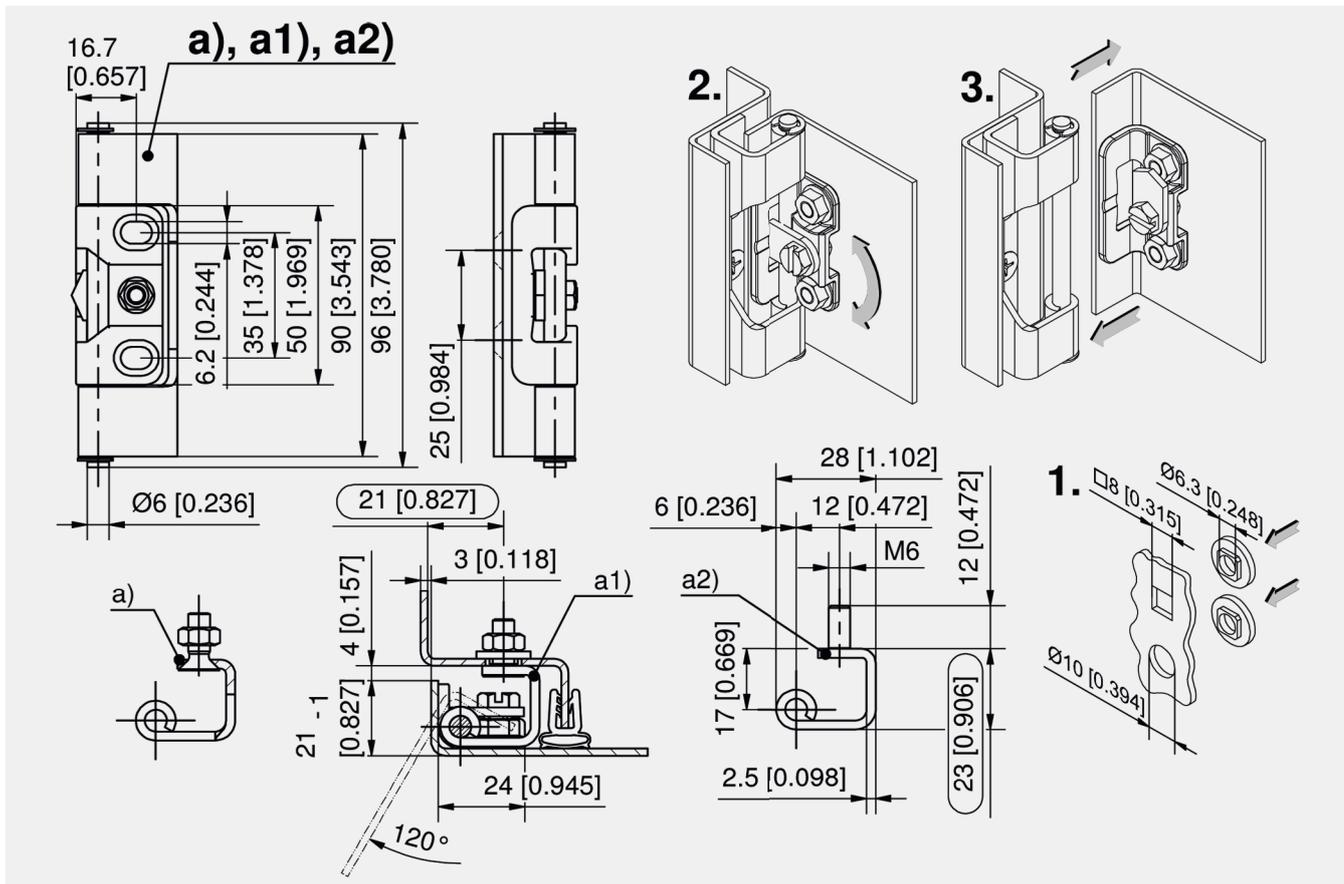
**Frame-part, 1/4 turn and fastening washer:** stainless steel AISI 304

**Door-part:** stainless steel AISI 316

**Pin:** stainless steel AISI 303

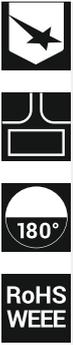
**Note**

1. = Installation instruction for fastening washer.



**Concealed Hinge**

|     | Part Number       | Frame-part                           | Cutouts in the frame | Installation type |
|-----|-------------------|--------------------------------------|----------------------|-------------------|
| a)  | 243-9212.00-00000 | with countersunk holes for M6        | Ø6.3 or M6           | screw-on          |
| a1) | 243-9213.00-00000 | with holes for M6 + fastening washer | Ø8 or Ø10            | screw-on          |
| a2) | 243-9211.00-00000 | with pressed in pivot M6             | Ø6.3, Ø8, Ø10        | screw-on          |

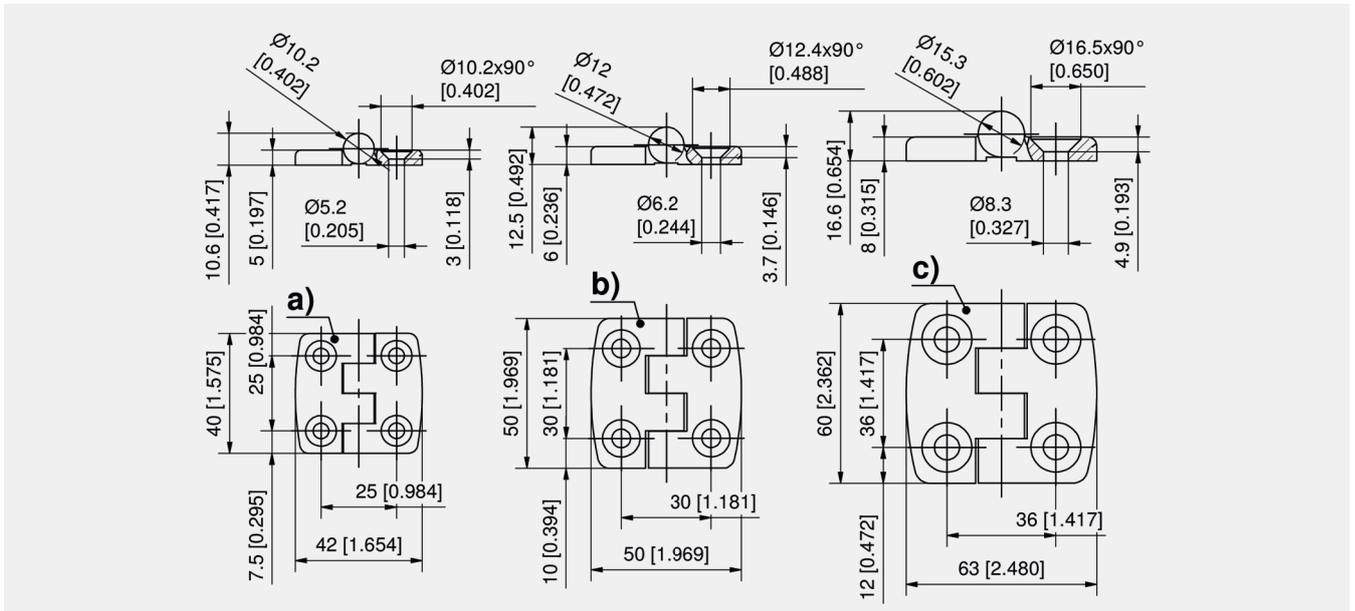


**Features**

- For nested doors.
- Hinge visible.
- RH / LH application.
- 180° Opening angle.
- For countersunk screws M5, M6 or M8 to DIN 7991.
- Vibration-proof.
- Vandalism safety due to both sides welded, not visible, hinge pin.

**Material and surface**

**Hinge-parts and Pin:** stainless steel AISI 316



**Hinge**

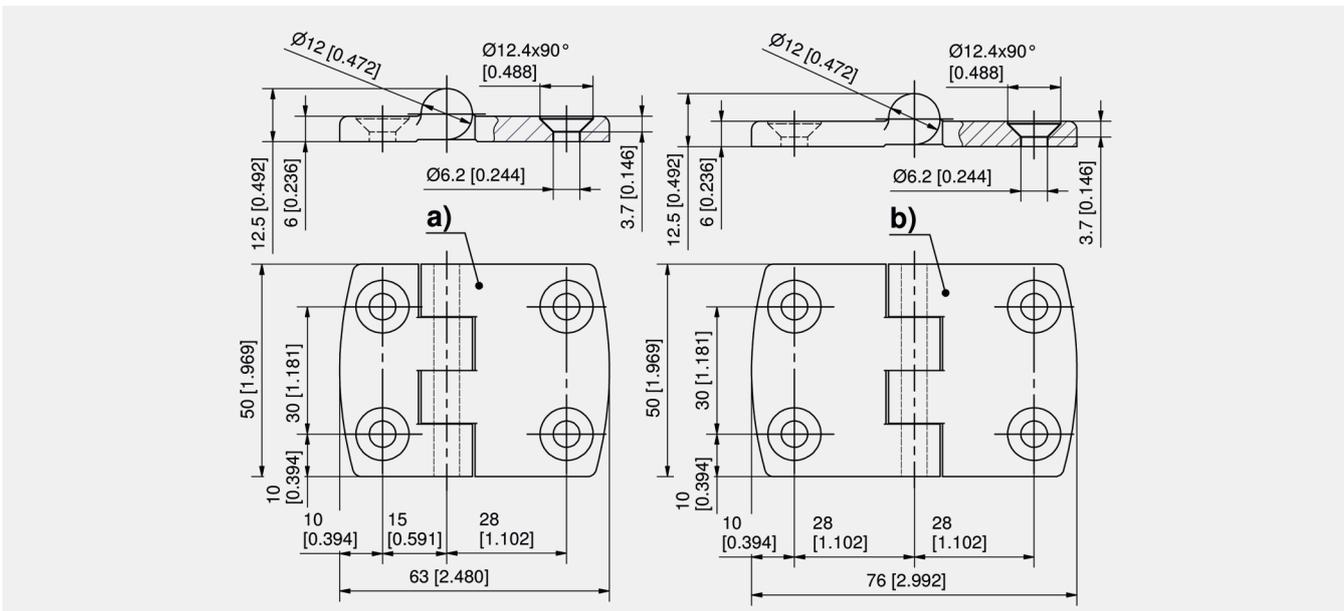
|    | Part Number       | Pin version | Material Pin    | Installation type | Dimension      |
|----|-------------------|-------------|-----------------|-------------------|----------------|
| a) | 218-9309.00-00000 | welded      | stainless steel | screw-on          | 40 x 42 x 10.6 |
| b) | 218-9310.00-00000 | welded      | stainless steel | screw-on          | 50 x 50 x 12.5 |
| c) | 218-9311.00-00000 | welded      | stainless steel | screw-on          | 60 x 63 x 16.6 |

### Features

- For nested doors.
- Hinge visible.
- RH / LH application.
- 270° Opening angle.
- For countersunk screws M6 to DIN 7991.
- Vibration-proof.
- Vandalism safety due to both sides welded, not visible, hinge pin.

### Material and surface

**Hinge-parts and Pin:** stainless steel AISI 316



### Hinge

|    | Part Number       | Pin version | Material Pin    | Installation type | Dimension      |
|----|-------------------|-------------|-----------------|-------------------|----------------|
| a) | 218-9312.00-00000 | welded      | stainless steel | screw-on          | 50 x 63 x 12.5 |
| b) | 218-9313.00-00000 | welded      | stainless steel | screw-on          | 50 x 76 x 12,5 |



RoHS  
WEEE



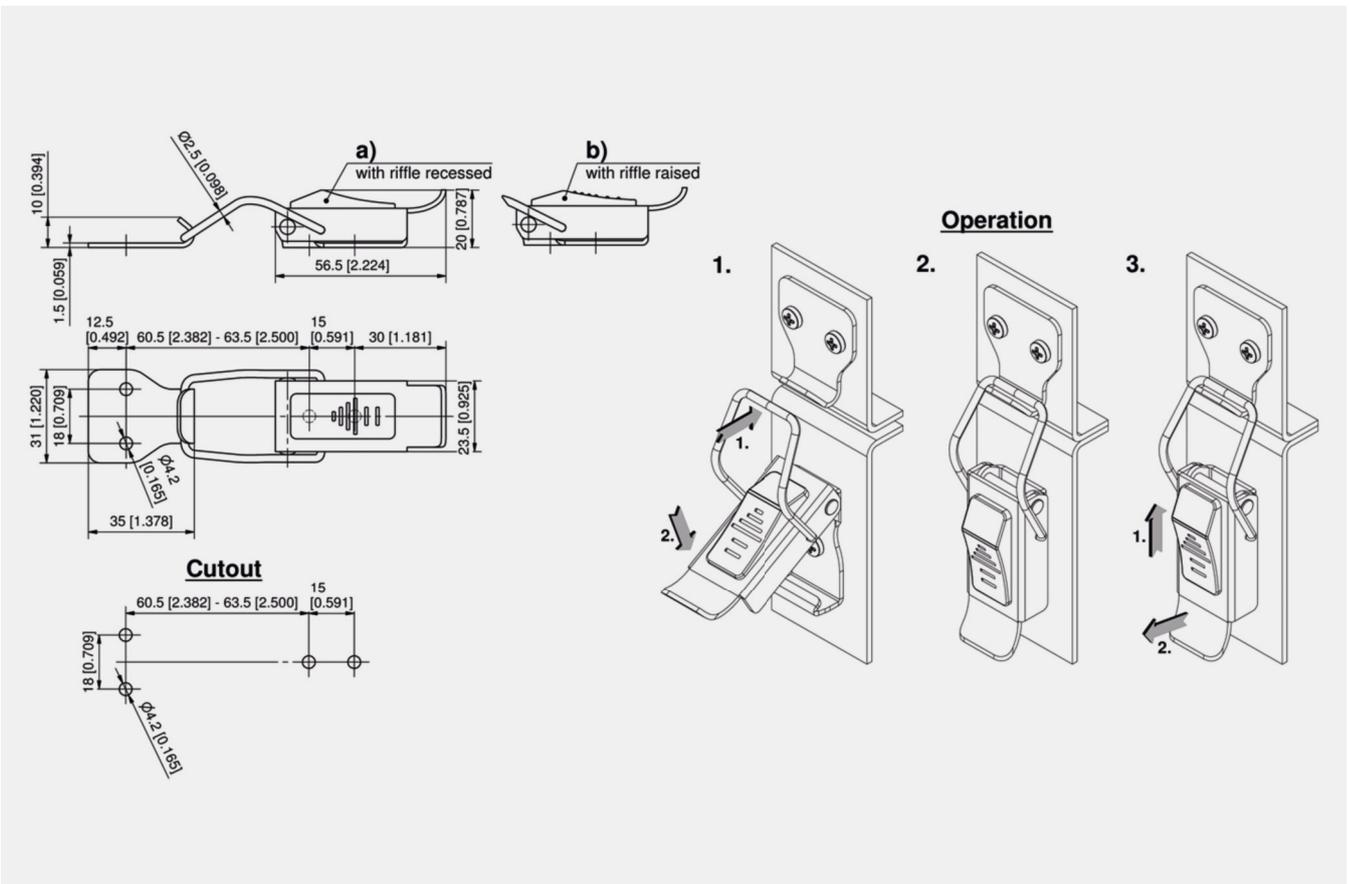
Locking system for industrial application.

**Features**

- Secure tightening and locking of two components.
- Clicks into place securely.
- Slider for releasing.
- Vibration-proof.
- The catch is included in the scope of delivery.
- Version a) with recessed raffle.
- Version b) with raised raffle.

**Material and surface**

**Toggle-latch:** stainless steel AISI 304  
**Release slider:** stainless steel AISI 304 or ABS, red



Toggle-Latch

|    | Part Number       | Version                             |
|----|-------------------|-------------------------------------|
| a) | 350-2080.00-00000 | with stainless steel release slider |
| b) | 350-2080.00-00001 | with ABS release slider             |

Locking system for industrial application

**Features**

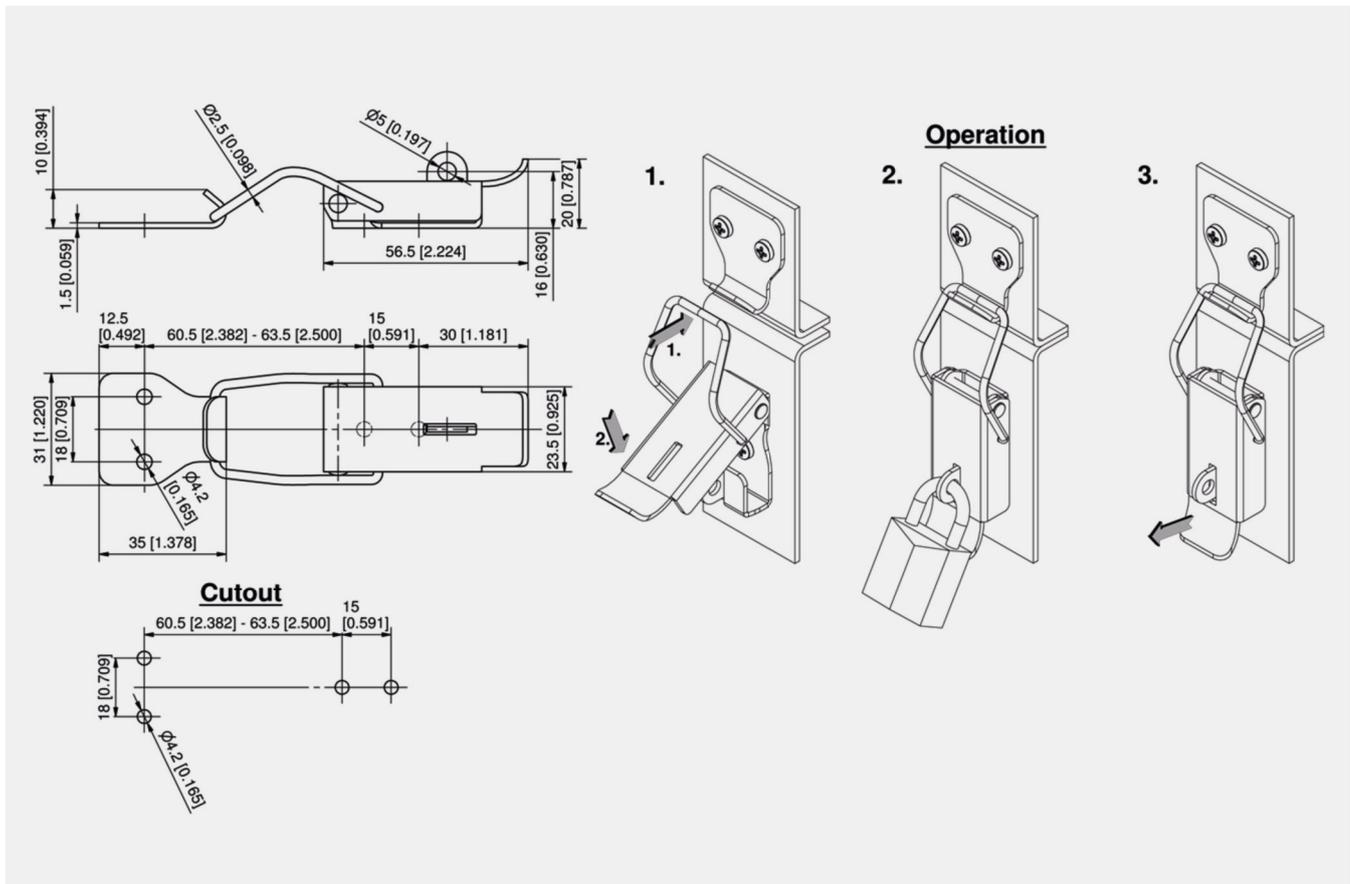
- Secure tightening and locking of two components.
- With eyelet for padlock.
- The catch is included in the scope of delivery.

**Material and surface**

**Toggle-Latch:** stainless steel  
AISI 304



**RoHS  
WEEE**



**Toggle-Latch**

| Part Number       | Version                 |
|-------------------|-------------------------|
| 350-2080.00-00002 | with eyelet for padlock |



RoHS  
WEEE



Rod guide with adjustable height for 8 mm round rods, to compensate production tolerances, or if sealing has set.

**Features**

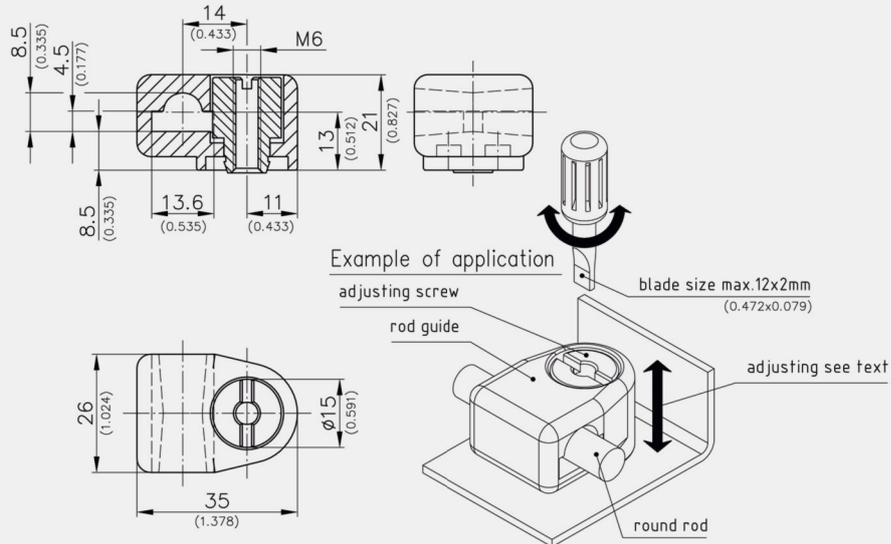
- Slotted insert (max. 12 x 2 mm).
- With this rod guide even completely pre-assembled rod latch systems can be installed, because the rod guide can be screwed onto the thread of the weld studs M6 by turning the threaded sleeve.
- The round shape of the hole allows free swivelling even with very short rods.
- PA version see product system 1-192.

**Material and surface**

**Rod guide:** stainless steel AISI 316  
**Adjusting screw:** stainless steel AISI 303  
**C-clip and wave washer:** stainless steel

**Note**

Adjustment depending on the length of the weld stud:  
 M6 x 14 +5/-1 mm  
 M6 x 16 +5/-3 mm  
 M6 x 18 +5/-5 mm  
 M6 x 20 +5/-7 mm



Rod guide

| Part Number       | Version | Fastening  | Material        | height adjustable | Adjustment range |
|-------------------|---------|------------|-----------------|-------------------|------------------|
| 200-9623.00-00000 | RS      | screwed on | stainless steel | Yes               | max. + 5 mm      |

| Part Number       | Page |
|-------------------|------|-------------------|------|-------------------|------|-------------------|------|-------------------|------|
| 100-0388.50-07701 | 31   | 100-9503.00-00000 | 155  | 208-9305.00-00000 | 68   | 216-9106.00-00000 | 169  | 243-9222.00-00000 | 41   |
| 100-0388.50-07702 | 31   | 100-9504.00-00000 | 158  | 208-9312.00-00000 | 68   | 216-9109.00-00000 | 166  | 243-9223.00-00000 | 41   |
| 100-0388.50-07703 | 31   | 100-9505.00-00000 | 158  | 208-9790.00-00000 | 78   | 216-9109.00-00001 | 166  | 243-9224.00-00000 | 41   |
| 100-0388.50-07704 | 31   | 100-9601.00-00000 | 153  | 208-9791.00-00000 | 78   | 216-9110.00-00000 | 166  | 243-9225.00-00000 | 41   |
| 100-0388.50-07705 | 31   | 100-9755.00-00000 | 35   | 209-0201.00-00000 | 92   | 216-9110.00-00001 | 166  | 243-9226.00-00000 | 41   |
| 100-0388.50-07707 | 31   | 100-9901.00-00000 | 47   | 209-0201.1A-00000 | 92   | 216-9111.00-00000 | 168  | 243-9227.00-00000 | 41   |
| 100-0535.80-00000 | 162  | 107-9209.00-10000 | 77   | 209-0205.00-00000 | 92   | 216-9111.00-00001 | 168  | 243-9228.00-00000 | 41   |
| 100-0535.80-00002 | 162  | 107-9274.00-10000 | 77   | 209-0205.1A-00000 | 92   | 216-9112.00-00000 | 169  | 243-9229.00-00000 | 41   |
| 100-0535.80-00004 | 162  | 108-0916.15-00300 | 75   | 209-0211.00-00000 | 92   | 216-9112.00-00001 | 169  | 245-9301.00-00000 | 90   |
| 100-0535.80-00006 | 162  | 108-0916.15-00400 | 75   | 209-0220.00-00000 | 92   | 216-9113.00-00000 | 164  | 245-9303.00-00000 | 90   |
| 100-0535.80-00008 | 162  | 108-0916.15-00500 | 75   | 209-0240.00-00000 | 92   | 216-9115.00-00000 | 167  | 245-9304.00-00000 | 112  |
| 100-0535.80-00010 | 162  | 108-0916.15-00600 | 75   | 209-0246.00-00000 | 92   | 216-9116.00-00000 | 167  | 245-9304.07-07101 | 90   |
| 100-0535.80-00012 | 162  | 108-0916.15-00700 | 75   | 209-2201.00-00000 | 92   | 216-9116.00-00001 | 167  | 248-0602.15-00135 | 23   |
| 100-0535.80-00014 | 162  | 200-0211.07-07701 | 31   | 214-0103.03-00000 | 109  | 216-9120.00-00000 | 168  | 248-0602.15-00275 | 23   |
| 100-0535.80-00016 | 162  | 200-0769.50-07718 | 31   | 214-0105.50-00013 | 96   | 216-9121.00-00001 | 166  | 248-9100.00-00000 | 149  |
| 100-0535.80-00018 | 162  | 200-0769.50-07720 | 31   | 214-0106.50-00013 | 96   | 216-9121.00-00002 | 166  | 248-9101.00-00000 | 149  |
| 100-0535.80-00020 | 162  | 200-0769.50-07722 | 31   | 214-0107.51-00000 | 101  | 216-9122.00-00000 | 169  | 248-9102.00-00000 | 149  |
| 100-0535.80-00022 | 162  | 200-0769.50-07724 | 31   | 214-0107.51-10000 | 101  | 216-9123.00-00000 | 168  | 248-9103.00-00000 | 149  |
| 100-0545.80-00000 | 162  | 200-0769.50-07728 | 31   | 214-0108.51-00000 | 98   | 216-9124.00-00000 | 169  | 248-9104.00-00000 | 149  |
| 100-0545.80-00002 | 162  | 200-2811.35-00000 | 44   | 214-0108.51-20000 | 97   | 216-9125.00-00000 | 168  | 248-9105.00-00000 | 149  |
| 100-0545.80-00004 | 162  | 200-3606.03-00000 | 43   | 214-0109.51-00000 | 12   | 216-9125.00-00001 | 168  | 248-9106.00-00000 | 149  |
| 100-0545.80-00006 | 162  | 200-3623.51-00000 | 42   | 214-0109.51-10000 | 12   | 216-9126.00-00000 | 169  | 248-9107.00-00000 | 149  |
| 100-0545.80-00008 | 162  | 200-3624.51-00000 | 42   | 214-0109.51-20000 | 12   | 216-9126.00-00001 | 169  | 248-9108.00-00000 | 149  |
| 100-0545.80-00010 | 162  | 200-3625.51-00000 | 42   | 214-0109.51-30000 | 12   | 216-9128.00-00000 | 164  | 248-9109.00-00000 | 149  |
| 100-0545.80-00012 | 162  | 200-3626.51-00000 | 42   | 214-0110.51-00000 | 99   | 218-9220.00-00000 | 91   | 248-9110.00-00000 | 149  |
| 100-0545.80-00014 | 162  | 200-4101.00-00000 | 45   | 214-0111.51-00000 | 100  | 218-9309.00-00000 | 172  | 248-9150.00-00000 | 149  |
| 100-0545.80-00016 | 162  | 200-4103.00-00000 | 45   | 214-0112.00-00050 | 103  | 218-9310.00-00000 | 172  | 248-9151.00-00000 | 149  |
| 100-0545.80-00018 | 162  | 200-4703.03-00000 | 46   | 214-9002.00-00000 | 109  | 218-9311.00-00000 | 172  | 248-9152.00-00000 | 149  |
| 100-0545.80-00020 | 162  | 200-4704.03-00000 | 46   | 214-9002.00-00001 | 109  | 218-9312.00-00000 | 173  | 248-9153.00-00000 | 149  |
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| 100-9033.00-00000 | 44   | 200-4706.03-00000 | 46   | 214-9003.00-00001 | 109  | 224-9009.00-00000 | 89   | 248-9155.00-00000 | 149  |
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# General Terms of Business of DIRAK

Dieter Ramsauer Konstruktionselemente GmbH  
Issue April 2012

## Prefatory remark

All our deliveries and services are subject solely to our General Terms of Business. We will oppose the incorporation of our contract partners' / clients' General Terms of Business. Provisions which are individually contractually agreed in the context of the contractual relationship shall have priority over the General Terms of Business.

## 1. Purchase orders and order acceptance

(1) We explicitly reserve the right for ordered or delivered items to deviate from the purchase order where such deviation does not run counter to normal utilisation, in particular with regard to materials and execution.

(2) Product descriptions – especially in our catalogues – do not represent a description of the quality composition, but are merely exemplary presentations.

(3) The client is obliged to inform us in writing, and in good time, if the quality composition of the product, or a special execution or specific material, is of particular significance for the intended utilisation.

(4) Frame-contracts are valid 12 month except not otherwise agreed. After the expiration of the contract DIRAK is in the position to deliver the remaining quantities to the agreed conditions of the contract.

## 2. Delivery time

(1) The delivery dates stated by us are generally non-binding, and simply designate a period of around 1 to 2 weeks before or after the stated date, unless they have been explicitly confirmed by us in writing in the form of a „binding delivery date“. The client is obliged to inform us in good time if non-observance of the projected delivery date could result in a loss. In such cases, we are prepared to agree a „binding“ delivery date – where appropriate in return for a suitable surcharge – and to guarantee adherence to that date.

(2) In the event of a delay for which we are responsible, the client is only entitled to enforce further rights if the client has set a subsequent deadline of at least three weeks, and that deadline has elapsed without success.

## 3. Versand

(1) If it is necessary to ship the ordered goods, shipping will take place from the supplier's principal place of business at the contract partner's / client's expense and risk. In the absence of specific agreements, we shall be free to select the shipping company and shipping method. Even if carriage-paid delivery has been agreed, the risk will be transferred to the client when the goods are shipped from the supplier's principal place of business.

(2) If shipping is delayed due to reasons for which the client is responsible, the risk will already be transferred to the client at the time of shipping readiness. The client must bear the costs caused by the delay (especially warehousing charges).

(3) The supplier is not obliged to insure the consignment against transport damage, or to arrange for such insurance, unless the supplier has given such an undertaking in writing.

## 4. Liability for defects

(1) The client is obliged to examine the delivered goods immediately following delivery, and to notify us immediately, and in writing, of any existing defects (at the latest, by the third working day following the delivery). Detectable defects which, contrary to the above obligation, are notified too late will not be entertained by us and will not be covered by the warranty. Notices of defect will only be acknowledged if lodged in writing and addressed to ourselves. Notices of defect lodged with field staff, shippers or other third parties shall be invalid.

(2) The supplier's prior agreement must be obtained if it is necessary to return goods to the supplier in the event of a defect. The supplier need not accept returns which are sent without his prior agreement. In that event, the client will bear the costs of the return shipment.

(3) The provisions governing the delivery period will apply accordingly in the event that, based on a justified notice of defect, a retrospective improvement or replacement delivery is made.

(4) The client shall have the following rights based on the existence of a defect which has been determined as such, and which has been notified by means of a valid notice of defect: (a) In the event of a defect, the client shall initially be entitled to demand retrospective performance from the supplier. In this regard, the supplier is entitled to choose whether to deliver a replacement object or to remedy the defect.

(b) Furthermore, if a retrospective performance attempt fails, the supplier may make a further retrospective performance attempt, and again may make a choice in this regard. The client shall only be entitled to repudiate the contract or reduce the purchase price once the repeated retrospective performance attempt has failed.

(5) Any further rights are ruled out unless the supplier is guilty of premeditation or gross negligence.

(6) The warranty period is one year from the date of delivery. The client must, under all circumstances, prove that the defect was already present at the time of delivery.

(7) In case of any return shipments DIRAK is allowed to charge handling expenses.

## 5. Other liability in respect of breach of duty by the supplier

Without prejudice to the provisions governing the warranty or other special arrangements contained in these provisions, the following shall apply in cases where the supplier is in breach of duty:

(1) The client must set the supplier an appropriate retrospective performance deadline to rectify the breach of duty; this deadline must not be under three weeks.

(2) The client may only repudiate the contract and/or demand damage compensation once this retrospective performance deadline has elapsed without success.

(3) The client may only enforce a damage compensation claim in cases of grossly negligent or premeditated breach of duty by the supplier. Damage compensation in place of the service (in the case of non-performance, § 280 III in conjunction with § 281 German Civil Code) and delay-related damage (§ 280 II in conjunction with § 286 German Civil Code) shall be limited to the negative interest, while damage compensation for a service which has not been performed, or which has not been performed in the manner owed (§ 282 German Civil Code), shall be limited to the amount of the purchase price. Damage compensation in place of the service shall be ruled out in the event that the obligation to render the service is excluded (performance impossibility).

(4) In the event of a merely negligent breach of duty by ourselves or those employed in performing an obligation for which we are vicariously liable, our liability shall be limited to contractually typical and predictable damage, unless grossly negligent behaviour is present, or unless there has been an injury to life, limb or health.

(5) Repudiation shall be ruled out if the client is solely or primarily responsible for the circumstances which would entitle him to repudiate the contract, or if the circumstance which would entitle the client to repudiate the contract occurred during the period when the client delayed acceptance.

#### 6. Exclusion of procurement risk and guarantees

The supplier does not assume any procurement risk or any guarantees of any kind unless a specific written agreement has been reached with the client in this regard.

#### 7. Prices

Prices will be invoiced from the supplier's principal place of business in EURO excluding the relevant applicable turnover tax.

#### 8. Payment terms

(1) All the supplier's invoices shall be payable within 30 days of invoice date net cash. The deduction of a discount as well as any other amendment to this term shall require prior written agreement.

(2) In case a buying party is in delay with his payment, we are charging an administration fee of 5/10/20 Euro for each reminder. An additional default interest has to be paid amounting to 12%, from the original due date of the payment.

(3) The exercise of a right of retention or offsetting shall be ruled out unless the counterclaim is undisputed or has been legally determined in a non-appealable manner.

#### 9. Reservation of title

(1) All goods delivered by the supplier shall remain the supplier's property until the purchase price has been paid in full, and until all other claims deriving from the business relationship have been met in full (extended reservation of title). Any disposal by the client, regardless of the manner of such disposal, of the goods in respect of which title is reserved, shall only be permitted in the context of the client's normal business dealings. The goods may not, under any circumstances, be transferred to a third party by means of security.

(2) In the event of the goods being sold in the context of normal business dealings, the purchase price shall take the place of the goods. On accepting the goods, the client already assigns all claims deriving from any sale to the supplier, and the supplier accepts this assignment. The client is entitled to collect these claims as long as he meets his payment obligations to the supplier. In consideration of the extended reservation of title (advance assignment of the relevant purchase price demand), an assignment to third parties, in particular to a credit institution, is prohibited. The supplier is entitled to check the client's sales documentation at any time, and to inform the client's clients of the assignment.

(3) In the event of a levy of execution in respect of goods at the client's premises, the supplier must be informed immediately of the fact that the distressed goods are the goods delivered by the supplier in respect of which title is reserved. This notification must be accompanied by an official copy of the protocol of execution together with a statutory declaration in lieu of oath.

(4) If, for the foreseeable future, the value of the securities pursuant to the above paragraphs of this article exceeds the amount of the outstanding claims thus secured by more than 20%, the client shall be entitled to demand that the supplier release securities to the value of the surplus amount.

(5) In the event of payment arrears, we shall be entitled to demand return of the delivered goods, and to offset them against the arrears at our purchase price or cost price.

(6) Enforcement of the supplier's rights deriving from the reservation of title shall not exempt the client from his contractual obligations. The value of the goods at the time they are taken back will simply be offset against the supplier's existing claims against the client.

#### 10. Supplier's right of repudiation

The supplier shall be entitled to repudiate the contract for the following reasons:

(1) If it should transpire, contrary to the assumption at the time of contract conclusion, that the client is not credit-worthy. In particular, the client shall be deemed to be unworthy of credit if a bill of exchange or cheque is protested, if the client ceases payment or if an unsuccessful attempt at execution is made.

(2) If it should transpire that the client made false statements regarding his creditworthiness.

(3) If the goods in respect of which the supplier has reserved title are disposed of without the supplier's consent and outside the client's normal business dealings, especially by being transferred by way of security or being pledged. The only exceptions are if the supplier gave his consent in writing to such disposal.

#### 11. Place of performance and legal venue

(1) If the client is an entrepreneur or a legal entity under public law or a special fund under public law, the supplier's principal place of business shall be the sole legal venue for all disputes arising directly or indirectly from the contractual relationship. Furthermore, each contracting party shall be entitled to sue the other party at the party's general legal venue.

(2) All agreements between ourselves and our contract partners/clients must be in writing. This also applies to setting aside the written form requirement.

(3) The law of the Federal Republic of Germany shall apply in all cases, in particular also in cases of cross-border deliveries. The provisions of the UN Purchase Law shall not apply.

#### 12. Partial nullity

Should contractual agreements be or become wholly or partially invalid, or should it transpire that there is a loophole in the contract, the validity of the remaining contractual agreements shall not be affected thereby. In such a case, the contract parties are obliged to replace the invalid contract provision with a valid one, and to close the contract loophole with a provision which most closely approximates to the commercial intention.

# Mechatronic Access Control for Industrial Enclosures.

## Controlled access

Organizing, controlling, and monitoring access are essential physical security measures for enclosures. These processes provide the system administration with confidence and peace of mind when making decisions.

## Organized security

Individualized access control along with real-time monitoring and documentation are the fundamental tools for organized security.

## Modular design

Holistic thinking and modular development mean designing solutions that each individual component can be combined into a single integrated system.

[elinebydirak.com](http://elinebydirak.com)





# Mechatronic Locks for Racks MLR



# secure.

Discover E-LINE by DIRAK products and all their advantages in our product brochure **secure.**

|                | MLR 5000 KP      | MLR 3000 KP | MLR 5000         | MLR 3000 | MLR 1000                  |
|----------------|------------------|-------------|------------------|----------|---------------------------|
| Protocol       | TCP/IP, Ethernet | RS485       | TCP/IP, Ethernet | RS485    | -                         |
| Capacity       | 1000             | -           | 2000             | -        | -                         |
| Access Methods | 1000 PIN         | -           | 1 Transponder    | -        | -                         |
| Color          | -                | -           | Color configured | -        | white                     |
| Power          | -                | -           | 12V / 40 / 440   | -        | 12V / 40 / 410            |
| Power Supply   | 12V / 45 / 440   | -           | integrated       | -        | 12V (DC)<br>250V (AV), 2A |
| Integration    | integrated       | -           | -                | -        | -                         |

Allow yourself to be inspired. **Experience** and gain an insight into the various challenges of security solutions with E-LINE by DIRAK's customer testimonials.

more...

Detailed information on the preconditions and system linking, connection schematics and all hole patterns are **installed** in the technical instructions.





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