

## ITEM 087434 TP3-537A024SR6

| Description | Technical data | Accessories | Downloads |
|-------------|----------------|-------------|-----------|
|-------------|----------------|-------------|-----------|



### Features

- › Auxiliary release on the front
- › With door monitoring contact
- › Increased horizontal overtravel
- › Plug connector

### Approach direction



- › Figure  
Horizontal and vertical  
Can be adjusted in 90° steps  
Increased overtravel for horizontal approach direction

### Solenoid operating voltage

- › AC/DC 24 V +10%, -15%

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## Guard locking type

**TP3** Closed-circuit current principle, guard locking by spring force. Release by applying voltage to the guard locking solenoid.

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## Switching element

**537** Slow-action switching contact 1 NC ⊕ + 1 NC (door monitoring contact)

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## Auxiliary release

Is used for releasing the guard locking with the aid of a tool. To protect against tampering, the auxiliary release is sealed with sealing lacquer.

## Approvals



## Mechanical values and environment

|  |                 |
|--|-----------------|
| Ambient temperature                                | -20 ... 55 °C   |
| Mechanical life                                    | $1 \times 10^6$ |
| Number of door position positively driven contacts | 1               |
| Number of NC contacts                              | 1               |
| Actuation frequency                                | 1200 1/h        |
| Locking force $F_{max}$                            | 1300 N          |
| Locking force $F_{Zh}$                             | 1000 N          |
| Retention force                                    | 10 N            |
| Extraction force                                   | 20 N            |
| Actuating force                                    | 10 N            |

## Electrical connection ratings

|  |                |
|--|----------------|
| Rated thermal current $I_{th}$                 | 4 A            |
| Utilization category according to EN 60947-5-1 | AC-15<br>DC-13 |
| Rated insulation voltage $U_i$                 | 250 V          |
| Rated impulse withstand voltage $U_{imp}$      | 2,5 kV         |
| Power consumption                              | 8 W            |
| Solenoid duty cycle                            | 100 %          |

**in combination with Actuator BETAETIGER-P-GT**

**Mechanical values and environment**

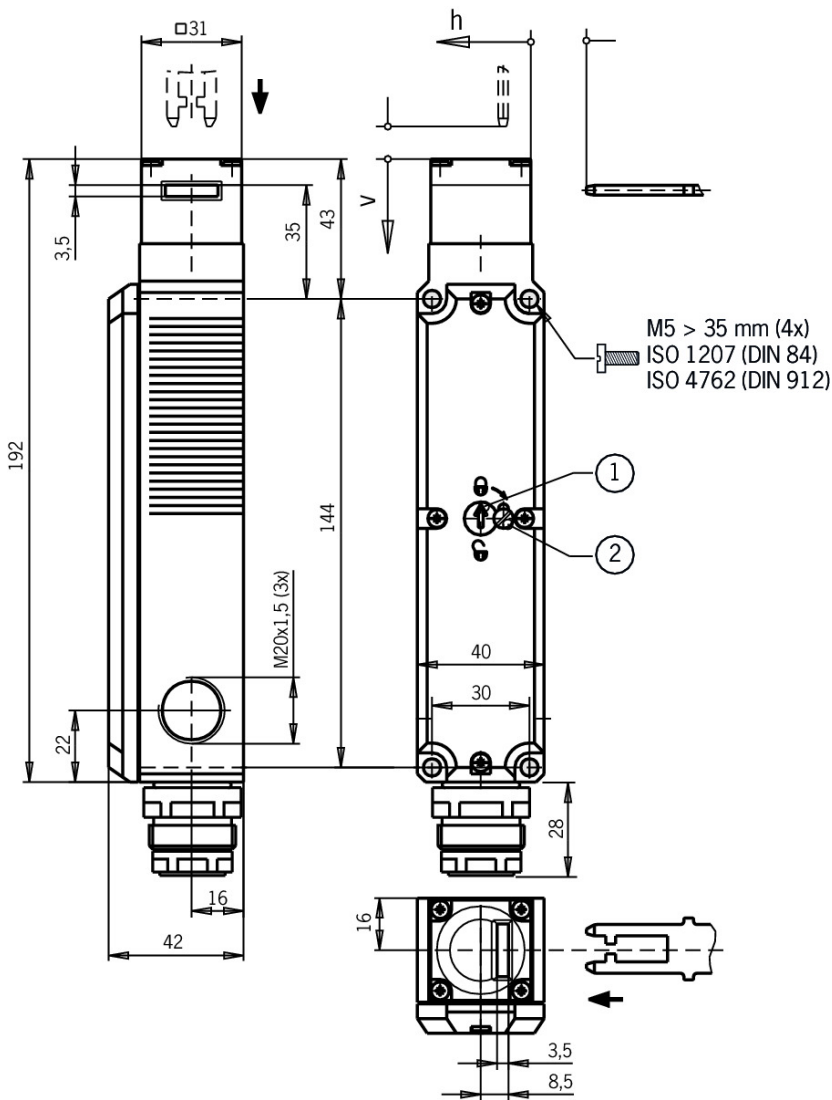
|                      |        |
|----------------------|--------|
| Overtravel A B C D E | 2 mm   |
| Overtravel K L M N   | 1,5 mm |

**in combination with Actuator BETAETIGER-P-GNT**

**Mechanical values and environment**

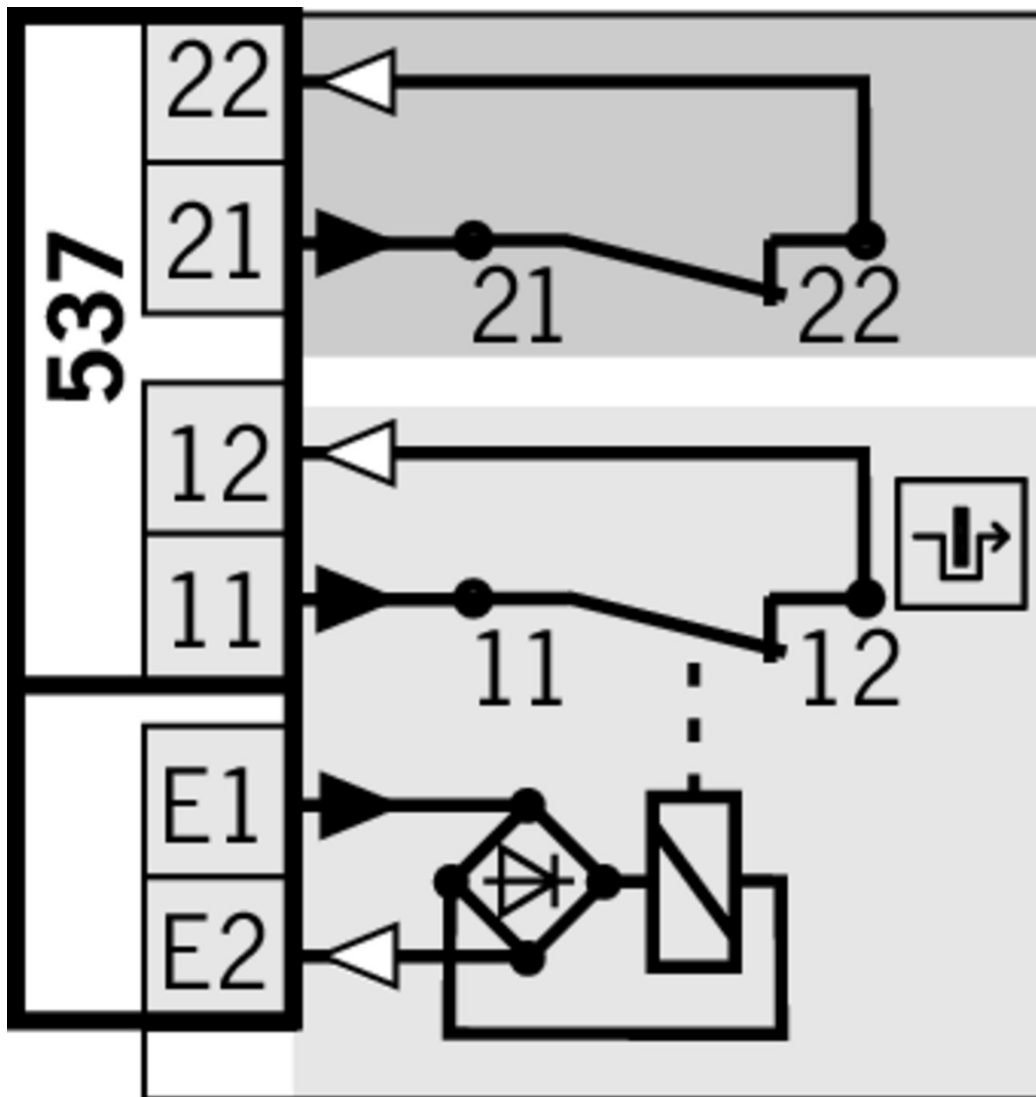
|                      |      |
|----------------------|------|
| Overtravel A B C D E | 7 mm |
|----------------------|------|

**Dimension drawing**



**Legende**

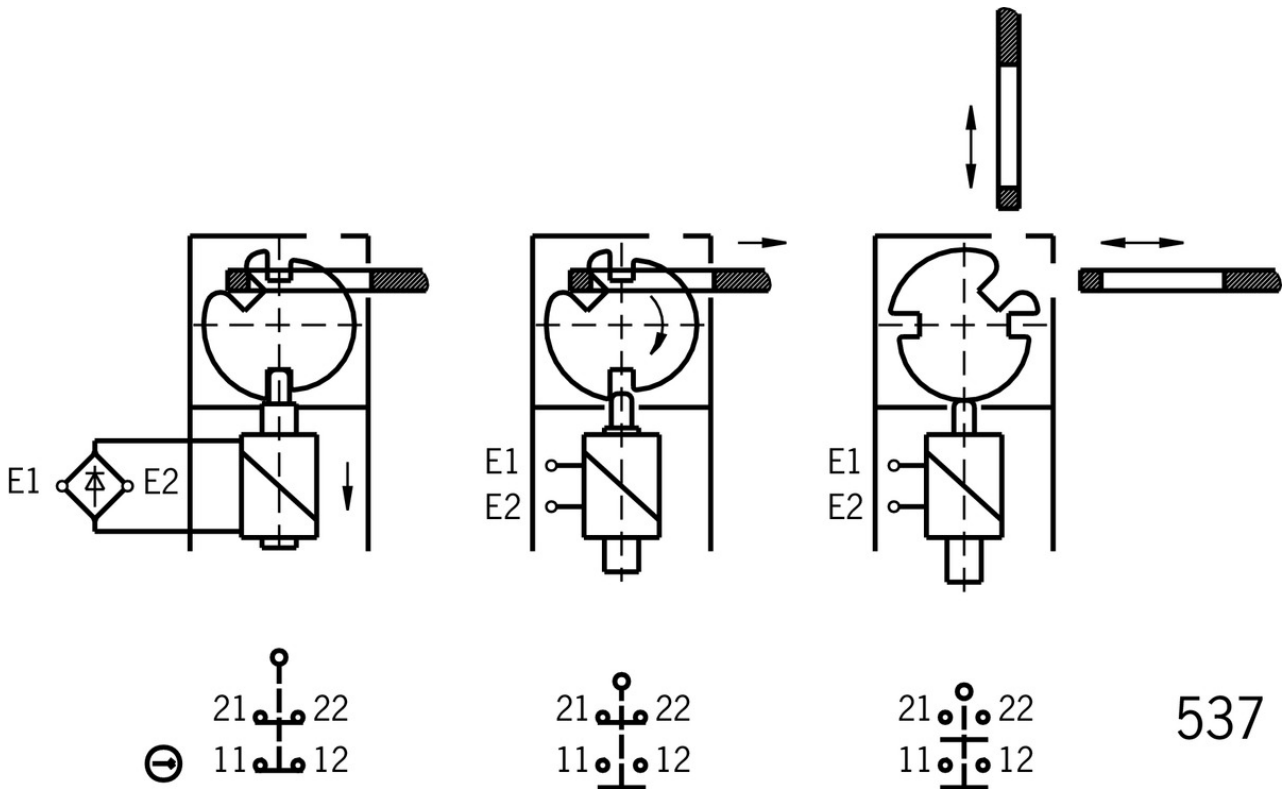
- 1 Auxiliary release
- 2 Locking screw



**Legende**

- Solenoid monitoring
- Door monitoring

## Switching functions



537

## Actuator

### Actuators for safety switches NP/GP/TP



#### **059226** BETAETIGER-P-G

##### Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator



#### **070046** BETAETIGER-P-GT

##### Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator
- › Actuators with rubber bushings

### Actuators for safety switches NP/GP/TP, increased overtravel



#### **074570** BETAETIGER-P-GN

##### Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator



#### **074576** BETAETIGER-P-GNT

##### Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator
- › Actuators with rubber bushings

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▼ Bent actuator for safety switches NP/GP/TP



**059227** BETAETIGER-P-W

▼ Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator



**070038** BETAETIGER-P-WT

▼ Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator
- › Actuators with rubber bushings

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▼ Bent actuator for safety switches NP/GP/TP, increased overtravel



**074571** BETAETIGER-P-WN

▼ Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator



**074577** BETAETIGER-P-WNT

▼ Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator
- › Actuators with rubber bushings

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▼ Hinged actuator top/bottom for safety switches NP/GP/TP



**070050** RADIUSBETAETIGER-P-OU

▼ Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator
- › For doors hinged at top and bottom

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▼ Hinged actuator left/right for safety switches NP/GP/TP



**059440** RADIUSBETAETIGER-P-LR

▼ Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator
- › For doors hinged on right and left

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▼ Hinged actuator top/bottom for safety switches NP/GP/TP, increased overtravel



**074572** RADIUSBETAETIGER-P-OUN

▼ Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator
- › For doors hinged at top and bottom

- 
- ▼ Hinged actuator left/right for safety switches NP/GP/TP, increased overtravel



**074573** RADIUSBETAETIGER-P-LRN

▼ Features

- › Actuators made of stainless steel
  - › Two stainless safety screws per actuator
  - › For doors hinged on right and left
- 

## Bolt

- 
- ▼ Bolt 0 NP/TP for safety switches NP, GP and TP



**073535** RIEGEL 0 NP/TP OHNE RASTUNG

▼ Features

- › Steel bolt
  - › For doors hinged on the left or right
  - › Can be locked in open position with padlocks
  - › Actuator included
- 

- ▼ Bolt 1 NP/TP for safety switches NP, GP and TP



**073536** RIEGEL 1 NP/TP 1X RASTUNG ZU

▼ Features

- › Steel bolt
  - › For doors hinged on the left or right
  - › Can be locked in open position with padlocks
  - › Actuator included
  - › Detent mechanism closed position
- 

- ▼ Bolt TP/GP... for safety switches GP and TP



**084430** RIEGEL TP-A

▼ Features

- › Steel bolt
  - › For doors hinged on the right
  - › Can be locked in open position with padlocks
  - › Actuator included
- 



**084432** RIEGEL TP-C

▼ Features

- › Steel bolt
  - › For doors hinged on the left
  - › Can be locked in open position with padlocks
  - › Actuator included
- 

- ▼ Bolt TP-GFK for safety switches TP and GP

**096616** RIEGEL TP-GFK

▼ Features



- › Fiber glass reinforced plastic bolt
- › For doors hinged on the left or right
- › Can be locked in open position with padlocks
- › Actuator included

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▼ Bolt BTC-T/GP... without escape release for safety switches GP and TP



**106301** BTC-T/GP-S-TH-00-X

▼ Features

- › Aluminum bolt
- › For doors hinged on the left or right
- › Can be locked in open position with padlocks
- › Actuator included

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## Mounting accessories

▼ Mounting plates EMP-SB for safety switches CTP, TP...A, STA, STP and TX



**093456** EMP-SB

▼ Features

- › For vertical and horizontal mounting of safety switches TP...A, STA, STP and TX

▼ Mounting plates EMP-B1 for actuators for safety switches CTP, TP...A, STA, STP, TX and TZ



**093457** EMP-B1

▼ Mounting plates EMP-B2 for actuators for safety switches CTP, TP...A, STA, STP, TX and TZ



**093458** EMP-B2

▼ Safety screws M5 x 25

**073457** M5X25/V100

▼ Features

- › Safety screws M5 x 25
- › Packaging unit 100 pieces

▼ Safety screws for actuators, M5 x 10

**073455** M5X10-NIRO/V100 NZ/TZ

▼ Features

- › Safety screws M5 x 10
- › Packaging unit 100 pieces

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▼ Switch bracket TP/STP GFK



### **096613** SCHALTERAUFNAHME TP/STP GFK

#### ▼ Features

- › Switch bracket made of fiber glass reinforced plastic
- › For left or right hinged doors

#### ▼ Safety screws for safety switches M4 x 14, large head

### **086232** M4X14-NIRO/V100

#### ▼ Features

- › Safety screws M4 x 14 (large head)
- › Packaging unit 100 pieces

#### ▼ Switch bracket for bolt NP/TP



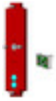
### **073539** SCHALTERAUFNAHME TP

#### ▼ Features

- › Switch bracket made of steel
- › For doors hinged on the left or right

## Function expansion

#### ▼ LED set



### **093752** TP LED SET

#### ▼ Features

- › LED set

#### ▼ Built-in LED



### **087423** EINBAULEUCHTE LED M20X1,5



### **095510** EINBAULEUCHTE LED-F M20X1,5

#### ▼ Lockout bar NP/GP/TP



### **096105** SPERREINSATZ TP

#### ▼ Features

- › Prevents unintentional closing of the door
- › Can be secured with padlocks

#### ▼ Latch spring for increased retention force

### **076501** RASTFEDER NP/TP

#### ▼ Lock for auxiliary release for safety switches CTP/TP/STP



### **084177** SCHLOSS TP VERSCHIEDENSCHLIESSEND

#### ✓ Features

- › Lock unique locking
- › Key removable in “unlocked” and “locked” positions



### **086236** SCHLOSS TP GLEICHSCHLIESSEND

#### ✓ Features

- › Identical locking
- › Key removable in “unlocked” and “locked” positions



### **109212** SCHLOSS TP GLEICHSCHLIESSEND C2293

#### ✓ Features

- › Identical locking
- › Key can be removed only in “locked” position

#### ✓ Emergency unlocking for safety switches CTP/TP/STP



### **099877** NOTENTSPERRUNG TP/STP

#### ✓ Release with automatic reset for safety switches CTP/TP/STP



### **103110** ENTRIEGELUNG RUECKSTELLEND TP/STP

#### ✓ Wire front release



### **096230** AE-B-A1-02,0-096230

#### ✓ Features

- › Can be used as escape release or emergency unlocking
- › No automatic return
- › Sheath length 2 m (rope length 6 m)



### **098313** AE-B-A1-03,0-098313

#### ✓ Features

- › Can be used as escape release or emergency unlocking
- › No automatic return
- › Sheath length 3 m (rope length 6 m)



### **098314** AE-B-A1-04,0-098314

#### ✓ Features

- › Can be used as escape release or emergency unlocking
- › No automatic return
- › Sheath length 4 m (rope length 6 m)



### **097747** AE-B-A1-02,0-F-097747

#### ✓ Features

- › Can be used as escape release or emergency unlocking
- › automatic return

- › Sheath length 2 m (rope length 6 m)



**111233** AE-B-A1-03,0-F-111233

▼ Features

- › Can be used as escape release or emergency unlocking
- › automatic return
- › Sheath length 3 m (rope length 6 m)



**124770** AE-B-A1-06,0-F-124770

▼ Features

- › Can be used as escape release or emergency unlocking
- › automatic return
- › Rope length 6 m (without sheath)



**125582** AE-B-A1-06,0-125582

▼ Features

- › Can be used as escape release or emergency unlocking
- › No automatic return
- › Rope length 6 m (without sheath)

▼ Handle for wire front release



**099795** AY-HDL-099795

▼ Features

- › Suitable for all wire front releases

▼ Insertion funnel for safety switches NP..A/GP/TP..A



**086237** EINFUEHRTRICHTER-P

▼ Handle for escape release for safety switches TP/STP/STA



**105329** FE-GRIFF

## Connection material

▼ Connection cable with plug connector SR6, 10m



**077633** C-M26F07-07X1,0PU10,0-MA-077633

▼ Features

- › Female plug SR6, 6-pin + PE
- › Straight plug connector
- › PUR cable
- › Cable length 10 m
- › With flying lead

✓ Plug connector SR6

**087180** SR6AM2-M20

- ✓ Features
    - › Crimp contacts
    - › Male socket
- 



**013176** SR6EF

- ✓ Features
    - › Crimp contacts
    - › Coding shells
- 

**013178** SR6K

- ✓ Features
    - › Coding for plug connector SR6
    - › Coding shells
- 



**024999** SR6WFPG11R

- ✓ Features
    - › Socket crimp contacts
    - › 6-pin+PE
    - › Contact carrier can be adjusted in 7 outlet directions
- 

✓ Connection cable with plug connector SR6, 20m



**098128** C-M26F07-07X1,0PU20,0-MA-098128

- ✓ Features
    - › Female plug SR6, 6-pin + PE
    - › Straight plug connector
    - › PUR cable
    - › Cable length 20 m
    - › With flying lead
- 

✓ Connection cable with plug connector SR6, 5m



**077632** C-M26F07-07X1,0PU05,0-MA-077632

- ✓ Features
    - › Female plug SR6, 6-pin + PE
    - › Straight plug connector
    - › PUR cable
    - › Cable length 5 m
    - › With flying lead
- 

✓ Connection cable with plug connector SR6, 15m















**077634** C-M26F07-07X1,0PU15,0-MA-077634

- ✓ Features
  - › Female plug SR6, 6-pin + PE
  - › Straight plug connector
  - › PUR cable
  - › Cable length 15 m

## Instructions

▼ Návod k použití Bezpečnostní spínač TP...

|   | Doc. no. | Version  | Language   | Download   |
|---|----------|----------|--|--|
| Betriebsanleitung Sicherheitsschalter TP...<br>Manual de instrucciones Interruptores de seguridad TP...<br>Mode d'emploi pour les interrupteurs de sécurité TP...<br>Operating Instructions Safety Switches TP... | 2084123  | 15-12/17 | <br><br><br> |  5.7 MB |
| Návod k použití Bezpečnostní spínač TP...   | 2084123  | 15-12/17 |   |  1.5 MB |
| Driftsvejledning for sikkerhedsafbryder TP...   | 2084123  | 15-12/17 |   |  1.5 MB |
| Manual de instruções Chave de segurança TP...   | 2084123  | 15-12/17 |   |  1.5 MB |
| Istruzioni di impiego dei finecorsa di sicurezza TP...  | 2084123  | 15-12/17 |   |  1.5 MB |







## Catalogs












▼ Bezpečnostní spínače s plastovým pouzdem Sicherheitsschalter mit Kunststoffgehäuse Safety Switches with Plastic Housing Interruptores de seguridad con carcasa plástica Interrupteurs de sécurité avec boîtier plastique 塑料壳体 的安全开关

|  | Doc. no. | Version  | Language  | Download   |
|--|----------|----------|---|--|
| Sicherheitsschalter mit Kunststoffgehäuse        | 096955   | 11-03/18 |  |  6.6 MB |
| Interrupteurs de sécurité avec boîtier plastique | 100677   | 11-03/18 |  |  6.6 MB |
| Interruptores de seguridad con carcasa plástica  | 104855   | 11-03/18 |  |  6.6 MB |
| Bezpečnostní spínače s plastovým pouzdem         | 121649   | 11-03/18 |  |  6.6 MB |
| Safety Switches with Plastic Housing             | 096956   | 11-03/18 |  |  6.6 MB |
| 塑料壳体 的安全开关                                       | 116243   | 11-03/18 |  |  6.2 MB |

## Declaration of conformity

▼ EU prohlášení o shodě

|  | Doc. no. | Version  | Language  | Download   |
|--|----------|----------|---|--|
| EU-Konformitätserklärung<br>Declaración UE de conformidad<br>Déclaration UE de conformité<br>Dichiarazione di conformità<br>EU declaration of conformity | 2077153  | 25-02/17 | <br><br><br><br> |  0.3 MB |

|                                 |         |          |   |   |
|---------------------------------|---------|----------|---|---|
| EU prohlášení o shodě           | 2077153 | 25-02/17 |   |  0.5 MB |
| EU-overensstemmelseserklæring   |         |          |  |   |
| Δήλωση συμμόρφωσης της ΕΕ       |         |          |  |   |
| EU-vaatimustenmukaisuusvakuutus |         |          |  |   |
| EU-típusbizonyítvány            |         |          |  |   |
| EU-conformiteitsverklaring      |         |          |  |   |
| Deklaracja zgodności UE         |         |          |  |   |
| Declaração de Conformidade UE   |         |          |  |   |
| Declarația de conformitate UE   |         |          |  |   |
| EÚ vyhlásenie o zhode           |         |          |  |   |

**CAD data**

CAD data for this item on TraceParts