

## ITEM 084270 TP3-4141A024M

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



### Features

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

### 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%

## Guard locking type

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

## Switching element

**4141** Slow-action switching contact 2 NC  $\ominus$  + 2 NC  $\ominus$  (door monitoring contacts)

## 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 x 10 <sup>6</sup> |
| Number of door position positively driven contacts | 4                   |
| Actuation frequency                                | 1200 1/h            |
| Locking force F <sub>max</sub>                     | 1300 N              |
| Locking force F <sub>Zh</sub>                      | 1000 N              |
| Retention force                                    | 10 N                |
| Extraction force                                   | 20 N                |
| Actuating force                                    | 10 N                |

## Electrical connection ratings

|  |                              |
|--|------------------------------|
| Rated thermal current I <sub>th</sub>            | 4 A                          |
| Utilization category according to EN 60947-5-1   | AC-15<br>DC-13               |
| Rated insulation voltage U <sub>i</sub>          | 250 V                        |
| Rated impulse withstand voltage U <sub>imp</sub> | 2,5 kV                       |
| Power consumption                                | 8 W                          |
| Solenoid duty cycle                              | 100 %                        |
| Connection cross-section                         | 0,34 ... 1,5 mm <sup>2</sup> |

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

## Mechanical values and environment

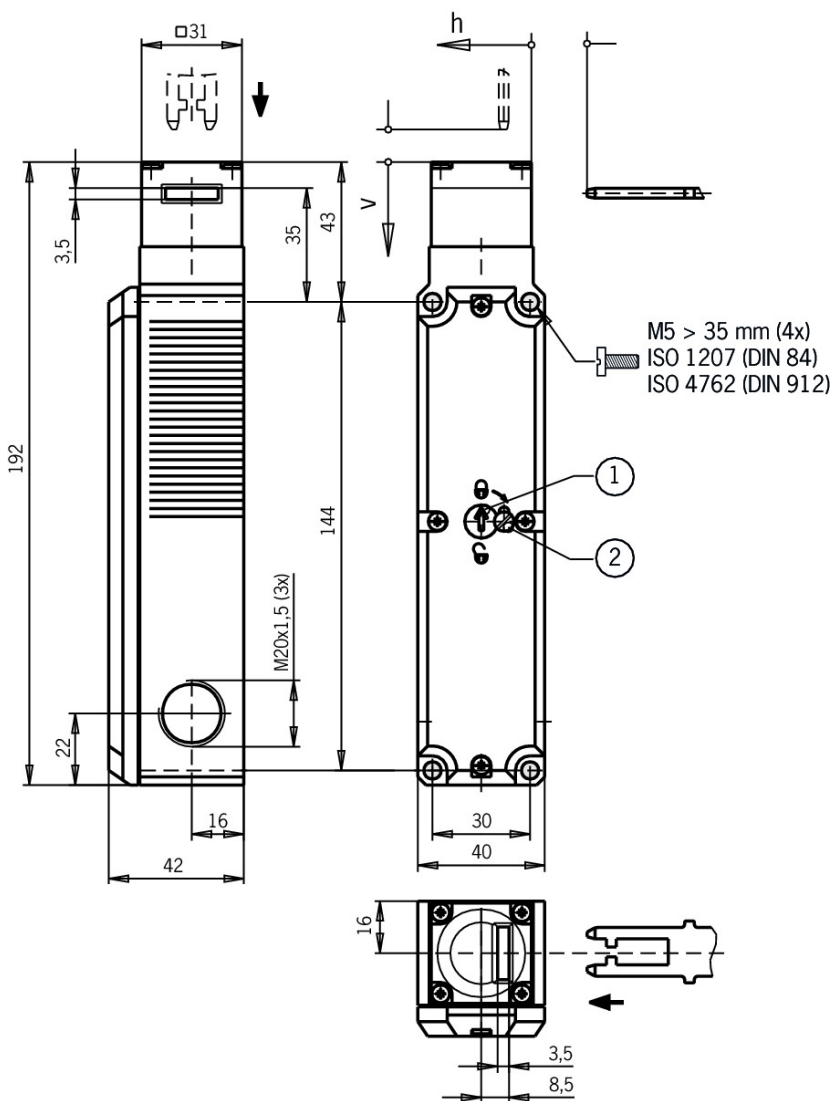
|                      |        |
|----------------------|--------|
| Overtravel A B C D E | 2 mm   |
| Overtravel K L M N   | 1,5 mm |

## in combination with Actuator BETAETIGER-P-GNT

## Mechanical values and environment

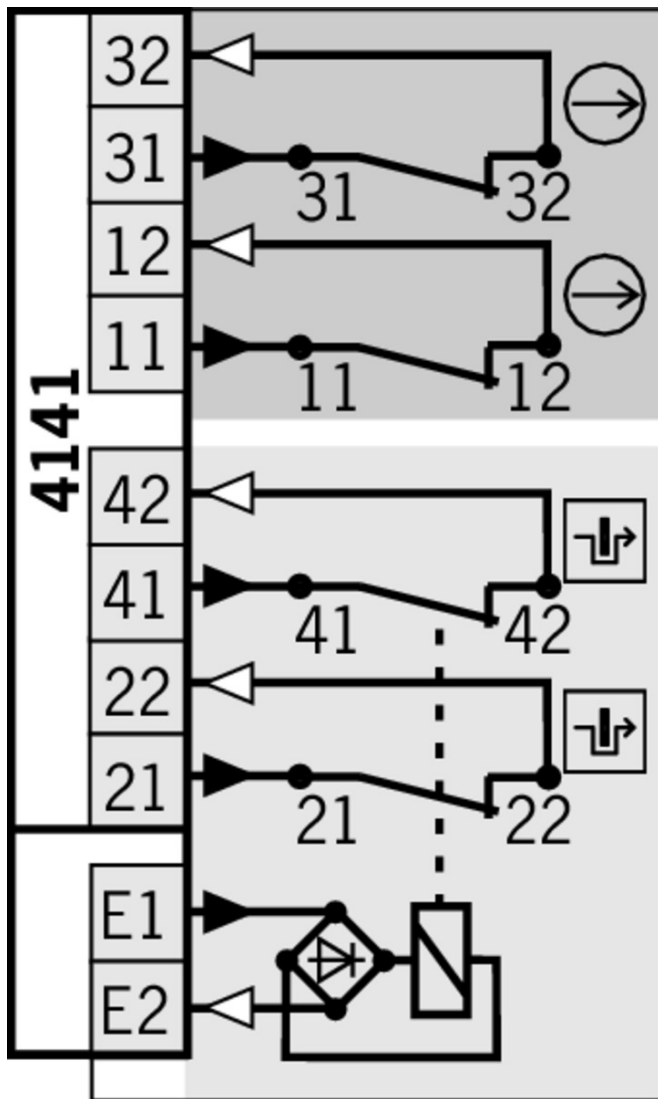
|                      |      |
|----------------------|------|
| Overtravel A B C D E | 7 mm |
|----------------------|------|

## Dimension drawing





## Legende

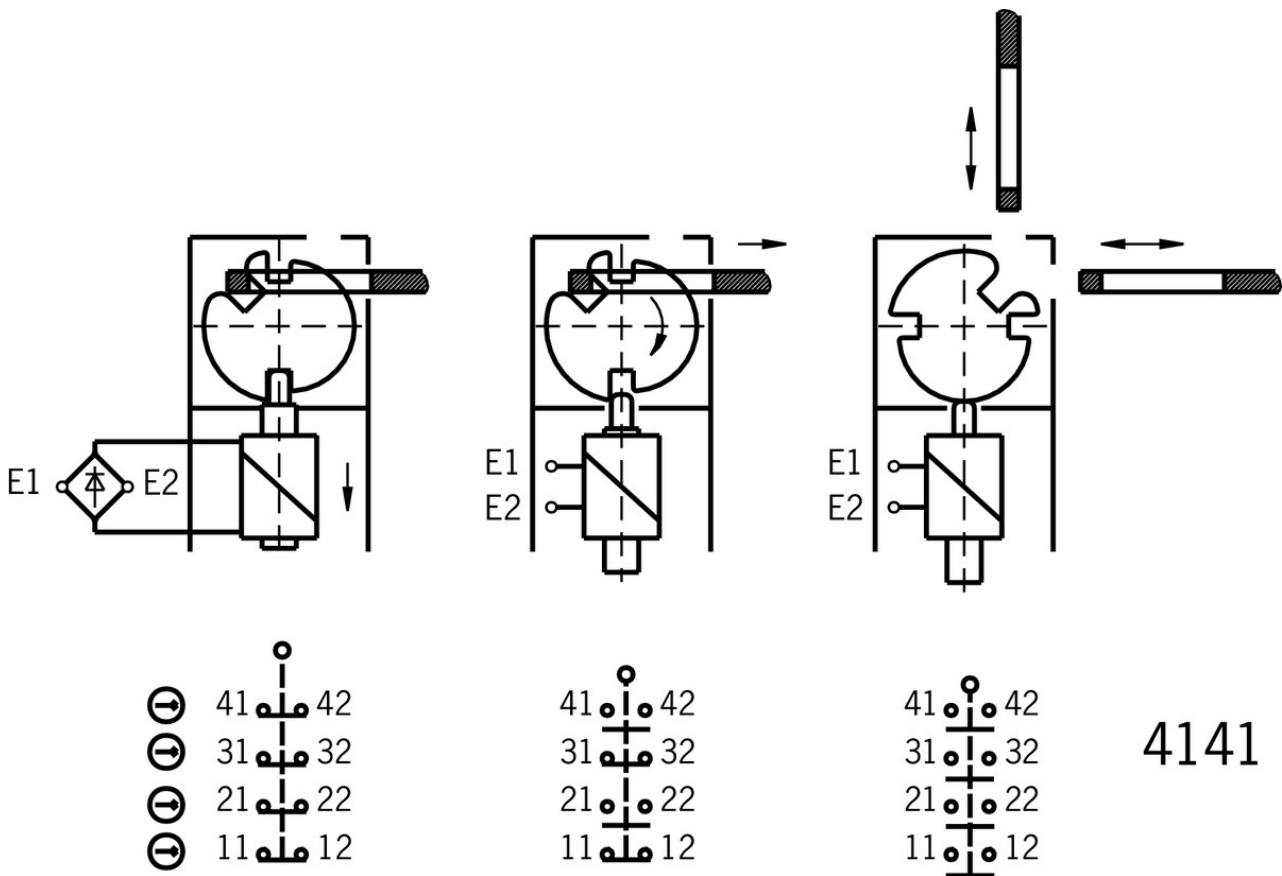
- 1 Auxiliary release
- 2 Locking screw



**Legende**

-  Solenoid monitoring
-  Door monitoring

## Switching functions



## 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

- ▼ 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
- 

▼ 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
- 

▼ 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
- 

▼ 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
- 

▼ 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
- 

▼ 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

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▼ 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 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

▼ 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

## Function expansion

▼ Wire front release



**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)



**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)



**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

✓ Lock for auxiliary release for safety switches CTP/TP/STP



**109212** SCHLOSS TP GLEICHSCHLIESSEND C2293

✓ Features

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



**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

✓ Emergency unlocking for safety switches CTP/TP/STP



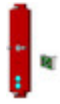
**099877** NOTENTSPERRUNG TP/STP

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



**103110** ENTRIEGELUNG RUECKSTELLEND TP/STP

✓ 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

#### ▼ 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

## Mounting accessories

#### ▼ 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

#### ▼ 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

#### ▼ 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

#### ▼ 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

#### ▼ 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

## Connection material


#### ▼ Cable glands M20x1.5



### **086233** EKPM20/06 086233

## 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