

ITEM 093634 TP3-2131A024L024M

| 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%

LED function display

A function display (2 LEDs, red and green) is available for the following voltage range:

› 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

2131 Slow-action switching contact 2 NC \ominus + 1 NO + 1 NC (door monitoring contact)

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 | 1×10^6 |
| Number of door position positively driven contacts | 2 |
| Number of NC contacts | 1 |
| Number of NO 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 |
| | DC-13 |

| | |
|---|------------------------------|
| Rated insulation voltage U_j | 250 V |
| Rated impulse withstand voltage U_{imp} | 2,5 kV |
| Power consumption | 8 W |
| Solenoid duty cycle | 100 % |
| Connection cross-section | 0,34 ... 1,5 mm ² |

in combination with Actuator BETAETIGER-P-GT

Mechanical values and environment

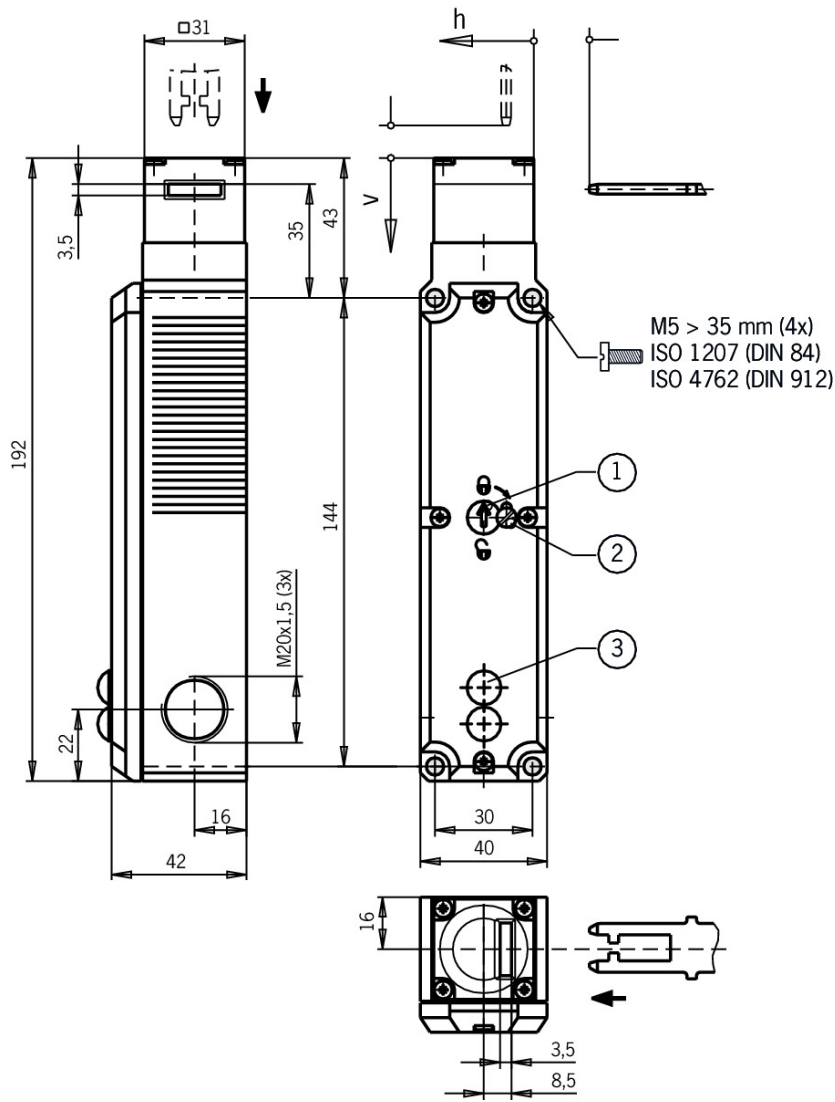
| | |
|----------------------|--------|
| Overtravel A B C D E | 2 mm |
| Overtravel K L M N | 1,5 mm |

in combination with Actuator BETAETIGER-P-GNT

Mechanical values and environment

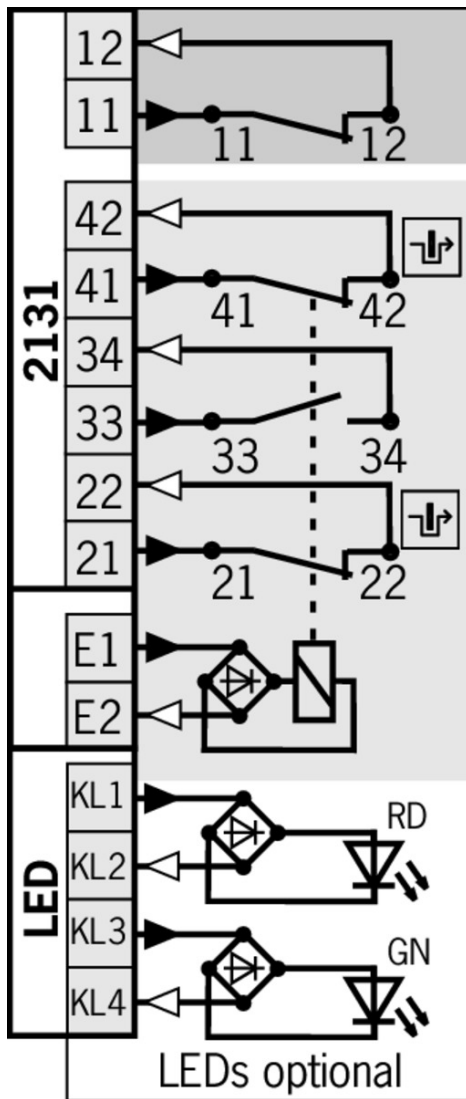
| | |
|----------------------|------|
| Overtravel A B C D E | 7 mm |
|----------------------|------|

Dimension drawing



Legende

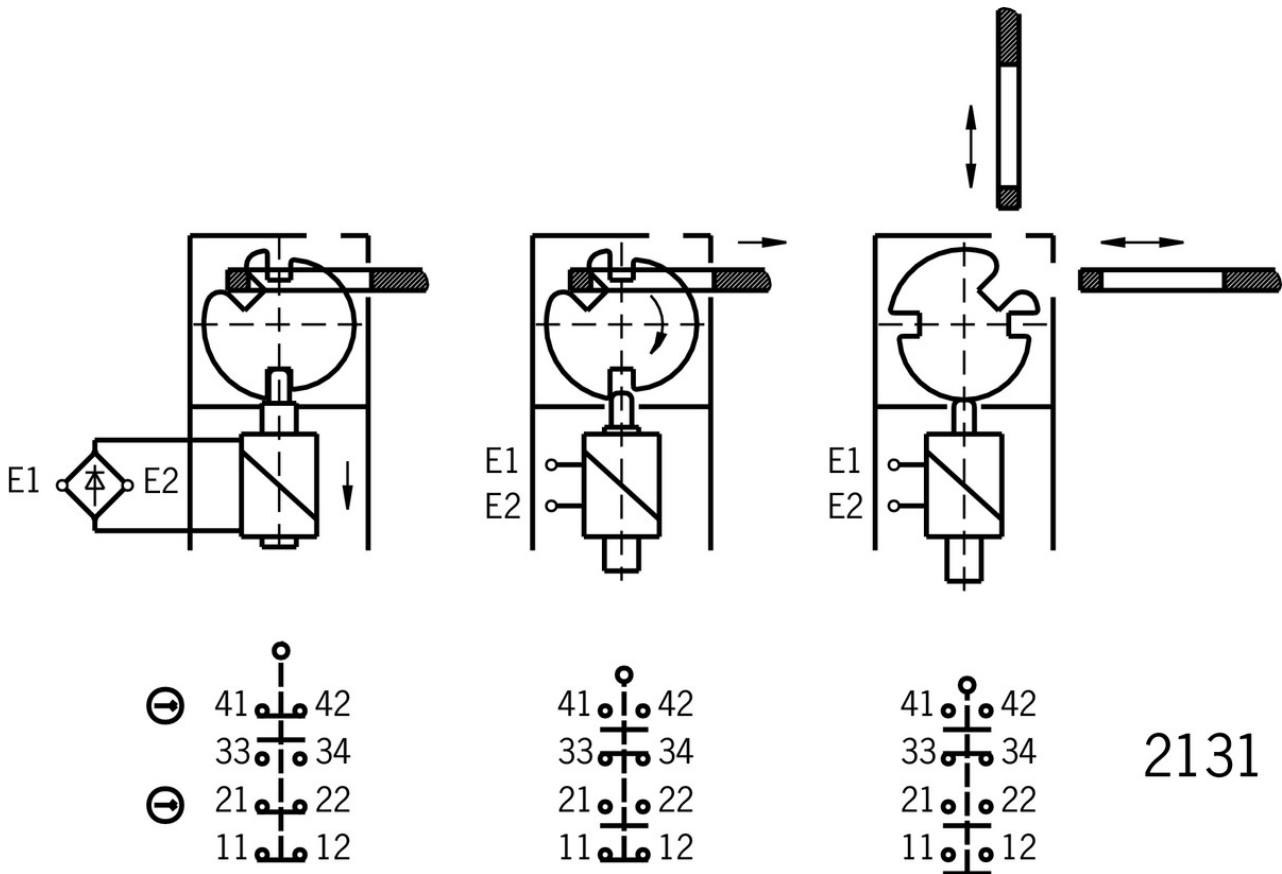
- 1 Auxiliary release
- 2 Locking screw
- 3 LED indicator



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

- 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
-

▼ 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
-

▼ Bent actuator for safety switches NP/GP/TP



070038 BETAETIGER-P-WT

▼ Features

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



059227 BETAETIGER-P-W

▼ Features

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

▼ 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
-

▼ 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

▼ 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

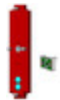
Function expansion

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



086237 EINFUEHRTRICHTER-P

▼ 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

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



105329 FE-GRIFF

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

- ▼ 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... | 2084123 | 15-12/17 |     |  5.7 MB |
| Manual de instrucciones Interruptores de seguridad TP... | | | | |
| Mode d'emploi pour les interrupteurs de sécurité TP... | | | | |
| Operating Instructions Safety Switches TP... | | | | |
| Návod k použití Bezpečnostní spínač TP... | 2084123 | 15-12/17 |  |  1.5 MB |
| Driftsvejlledning 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 pouzdrém 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 pouzdrém | 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 Declaración UE de conformidad Déclaration UE de conformité Dichiarazione di conformità EU declaration of conformity | 2077153 | 25-02/17 |      |  0.3 MB |
| EU prohlášení o shodě 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 | 2077153 | 25-02/17 |          |  0.5 MB |

CAD data

CAD data for this item on TraceParts