

ITEM 082946 TX2B-A024N

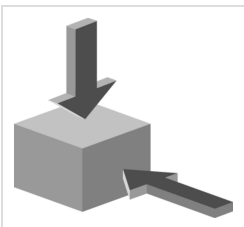
| Description | Technical data | Accessories | Downloads |
|-------------|----------------|-------------|-----------|
|-------------|----------------|-------------|-----------|



Features

- › Auxiliary release on the front
- › With door monitoring contact

Approach direction



- › Figure
Horizontal and vertical
Can be adjusted in 90° steps

Solenoid operating voltage

- › AC/DC 24 V +10%, -15%

LED function display

The switch has a function display (2 LEDs, red and green). The LED voltage is same as the solenoid operating voltage.

Guard locking type

TX2 Open-circuit current principle, guard locking by applying voltage to the solenoid. Release by spring force.

Switching element

ETX B 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. The auxiliary release must be sealed to prevent tampering (for example with sealing lacquer).

Approvals



Mechanical values and environment

| | |
|--|-------------------------------------|
| Housing material | Die-cast alloy, cathodically dipped |
| Weight | Net 0,8 kg |
| Ambient temperature | -20 ... 80 °C |
| Degree of protection | IP67 |
| Mechanical life | 1 x 10 ⁶ |
| Contact material | Silver alloy, gold flashed |
| Switching principle | Slow-action switching contact |
| Installation position | Any |
| Number of door position NC contacts | 1 |
| Number of guard lock monitoring positively driven contacts | 2 |
| Number of guard lock monitoring NO contacts | 1 |
| Connection | 3 x NPT 1/2 " |
| Approach speed | max. 20 m/min |
| Actuation frequency | 1200 1/h |
| Guard locking principle | Open-circuit current principle |
| Locking force F _{max} | 1700 N |

| | |
|------------------------|-----------|
| Locking force F_{Zh} | 1300 N |
| Retention force | 20 N |
| Extraction force | 35 N |
| Actuating force | 35 N |
| Insertion depth | min.32 mm |

Electrical connection ratings

| | |
|---|--|
| Rated thermal current I_{th} | 4 A |
| Utilization category according to EN 60947-5-1 | AC-15 4A 230V DC-13 4A 24V |
| Solenoid operating voltage | AC/DC 24 V -15% ... +10% |
| Short circuit protection according to IEC 60269-1 | (Fuse) 4A gG |
| Rated insulation voltage U_i | 250 V |
| Rated impulse withstand voltage U_{imp} | 2,5 kV |
| Switching voltage | Min. at 10mA 12 V |
| Switching current | Min. at 24V 1 mA |
| Power consumption | 8 W |
| Solenoid duty cycle | 100 % |
| Connection cross-section | 0,34 ... 1,5 mm ² |
| LED indicator | Operating voltage corresponds to the solenoid voltage ^[1] |

Reliability values acc. to EN ISO 13849-1

| | |
|------------------|--|
| | Monitoring of guard locking and the safety guard position |
| B10 _D | 6×10^6 |

in combination with Actuator BETAETIGER-X-GQ, 079740

Mechanical values and environment

| | |
|------------|------|
| Overtravel | 1 mm |
|------------|------|

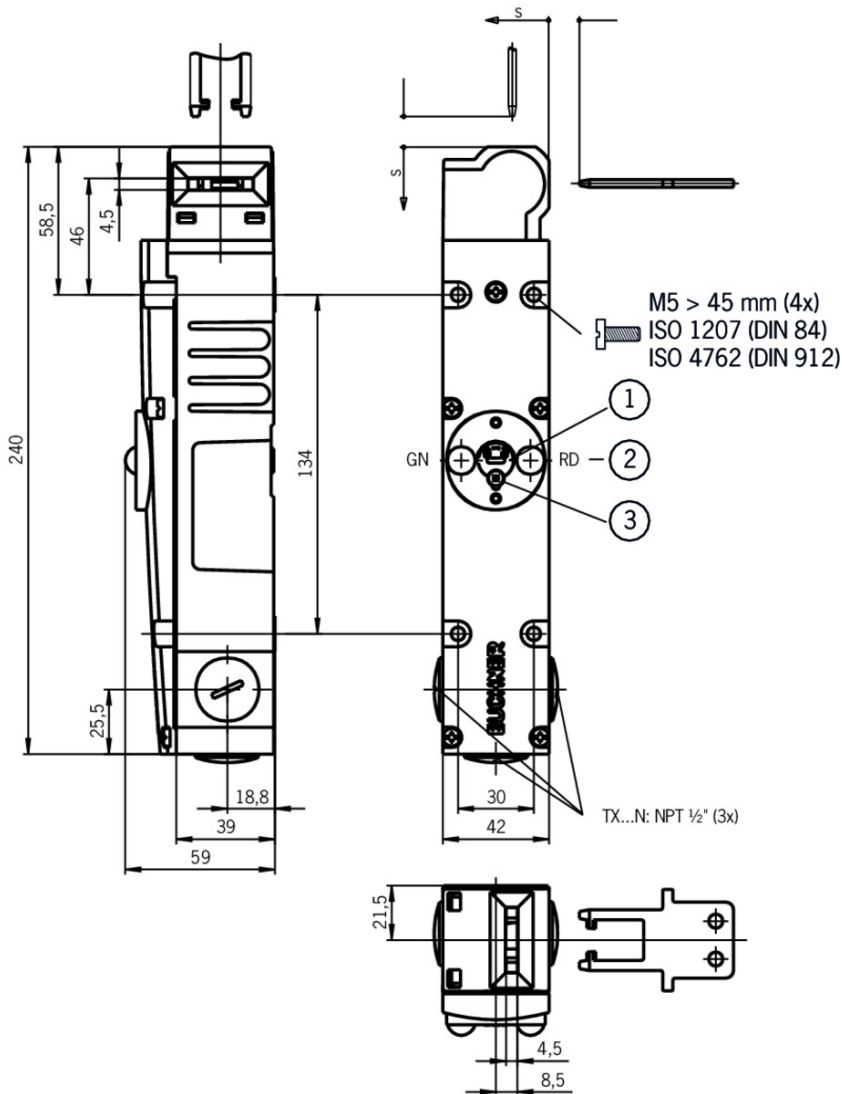
in combination with Actuator BETAETIGER-X-GNQ, 079742, 098082, 097906

Mechanical values and environment

| | |
|------------|------|
| Overtravel | 8 mm |
|------------|------|

[1] 2 LEDs; green, red

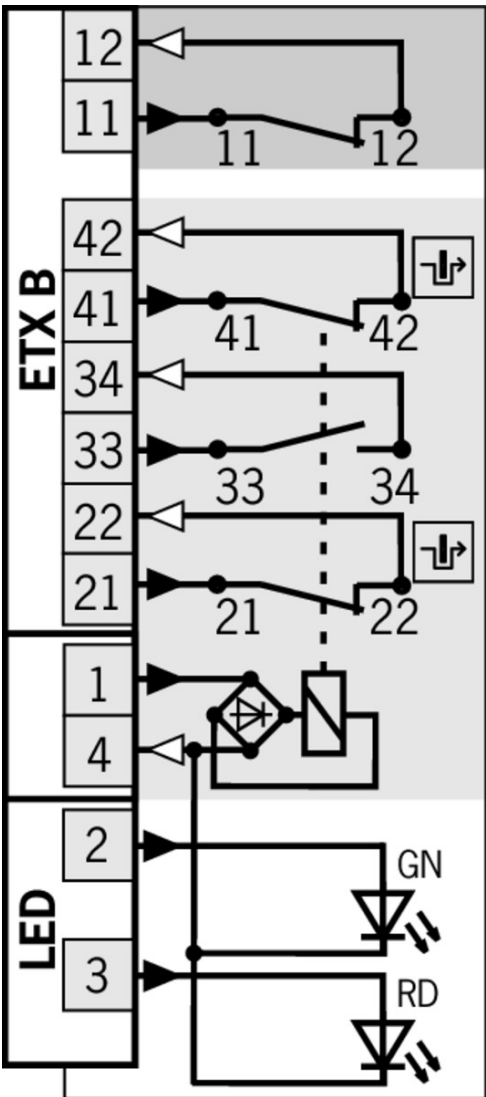
Dimension drawing



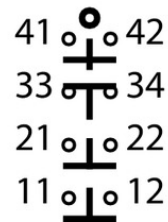
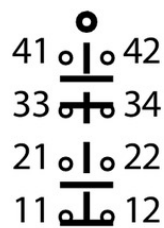
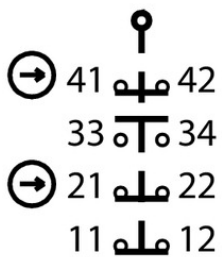
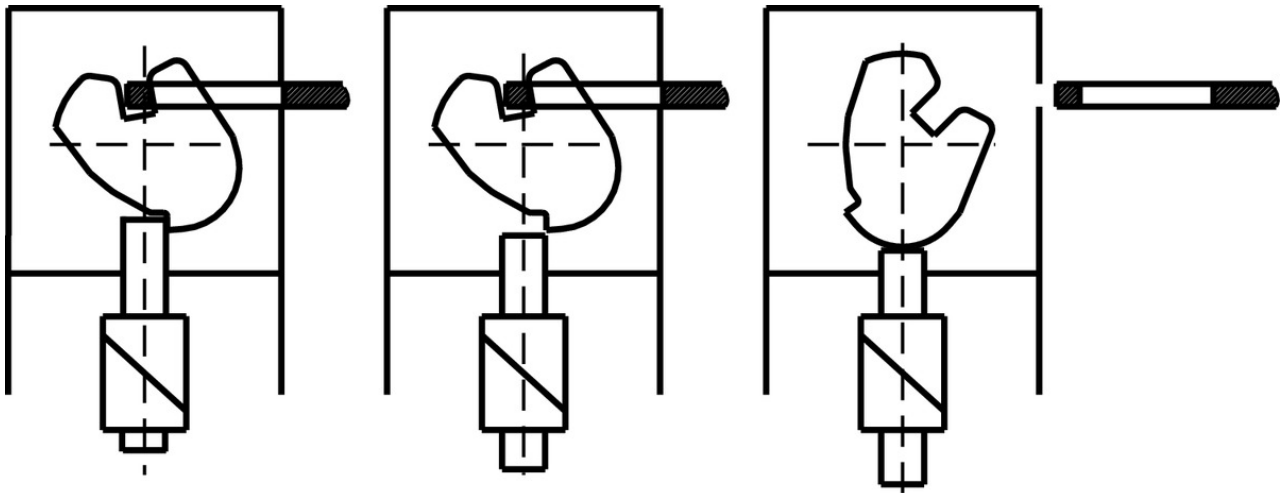
Legende

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

ETX B



Switching functions



ETX B

Actuator

- ▼ Bent actuator for safety switches NX/TX



079740 BETAETIGER-X-WQ

▼ Features

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

- ▼ Actuators for safety switches NX/TX



079739 BETAETIGER-X-GQ

▼ Features

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

- ▼ Hinged actuator left/right for safety switches NX/TX



098082 RADIUSBETAETIGER-X-LR-N

▼ Features

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

- ✓ Bent actuator for safety switches NX/TX, increased overtravel



079742 BETAETIGER-X-WNQ

✓ Features

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

- ✓ Hinged actuator top/bottom for safety switches NX/TX



097906 RADIUSBETAETIGER-X-OU-N

✓ Features

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

- ✓ Actuators for safety switches NX/TX, increased overtravel



079741 BETAETIGER-X-GNQ

✓ Features

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

Connection material

- ✓ Cable glands NPT ½"



077691 EKVN12/06

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

Function expansion

▼ Lockout mechanism NX/TX



096098 SPERREINSATZ TX

▼ Features

- › Prevents unintentional closing of the door
 - › Can be secured with padlocks
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▼ Lock for mechanical release for safety switches TX



079796 SCHLOSS TX VERSCHIEDENSCHLIESSEND



079795 SCHLOSS TX GLEICHSCHLIESSEND

▼ Release with automatic reset for safety switches TX



094773 ENTRIEGELUNG RUECKSTELLEND TX1/3

▼ Emergency unlocking for safety switches TX



094771 NOTENTSPERRUNG TX

Spare parts

▼ Lead seal kit

087256 PLOMBENSATZ C1937

Bolt

▼ Bolt TX-C for safety switches TX and NX



082991 RIEGEL TX-C

▼ Features

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

▼ Bolt TX-A for safety switches TX and NX



082990 RIEGEL TX-A

Features

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

Instructions

Betriebsanleitung Sicherheitsschalter TX...

| | Doc. no. | Version | Language | Download |
|--|----------|----------|----------|----------|
| Betriebsanleitung Sicherheitsschalter TX... | 079777 | 07-01/17 | | 4.4 MB |
| Mode d'emploi pour les interrupteurs de sécurité TX... | | | | |
| Istruzioni di impiego dei finecorsa di sicurezza TX... | | | | |
| Operating Instructions Safety Switches TX... | | | | |

Catalogs












Sicherheitsschalter mit Metallgehäuse Safety Switches with Metal Housing Bezpečnostní spínače s kovovým pouzdem Interrupteurs de sécurité avec boîtier métallique 金属壳体 的安全开关 Interruptores de seguridad con carcasa metálica

| | Doc. no. | Version | Language | Download |
|---|----------|----------|----------|----------|
| Sicherheitsschalter mit Metallgehäuse | 100319 | 11-03/18 | | 7.9 MB |
| Interrupteurs de sécurité avec boîtier métallique | 100676 | 11-03/18 | | 7.9 MB |
| Interruptores de seguridad con carcasa metálica | 104856 | 11-03/18 | | 14.0 MB |
| Safety Switches with Metal Housing | 100369 | 11-03/18 | | 7.9 MB |
| Bezpečnostní spínače s kovovým pouzdem | 121650 | 11-03/18 | | 7.9 MB |
| 金属壳体 的安全开关 | 102453 | 11-03/18 | | 8.2 MB |

Declaration of conformity

EU prohlášení o shodě

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

| | | | | |
|---------------------------------|---------|----------|---|---|
| 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