

## ITEM 085396 TX3C-A024SR11

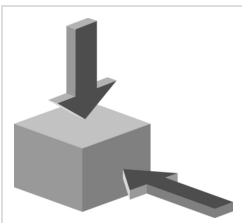
Description	Technical data	Accessories	Downloads
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### Features

- › Auxiliary release on the front
- › Release under load possible
- › With door monitoring contact
- › Plug connector SR11

### 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

**TX3** Closed-circuit current principle, guard locking by spring force. Release by applying voltage to the solenoid. Release under load possible.

## Switching element

**ETX** Slow-action switching contact 2 NC  $\ominus$  / 1 NO + 1 NO (door monitoring  
**C** 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	IP65
Mechanical life	1 x 10 <sup>6</sup>
Contact material	Silver alloy, gold flashed
Switching principle	Slow-action switching contact
Installation position	Any
Number of door position NO contacts	1
Number of guard lock monitoring positively driven contacts	2 Switches green LED
Number of guard lock monitoring NO contacts	1 Switches red LED
Connection	1 x Plug connector SR11 <sup>[1]</sup>
Approach speed	max. 20 m/min
Actuation frequency	1200 1/h

Guard locking principle	Closed-circuit current principle [2]
Locking force $F_{max}$	1700 N
Locking force $F_{Zh}$	1300 N
Retention force	min.50 N [3]
Extraction force	35 N
Actuating force	35 N
Insertion depth	min.32 mm

### Electrical connection ratings

Rated thermal current $I_{th}$	4 A [4]
Utilization category according to EN 60947-5-1	AC-15 4A 50V [5] DC-13 4A 24V [6]
Solenoid operating voltage	AC/DC 24 V -15% ... +10%
Short circuit protection according to IEC 60269-1	(Fuse) 4A gG [7]
Rated insulation voltage $U_i$	50 V
Rated impulse withstand voltage $U_{imp}$	1,5 kV
Switching voltage	Min. at 10mA 12 V
Switching current	Min. at 24V 1 mA
Power consumption	8 W [8]
Solenoid duty cycle	100 %
LED indicator	Operating voltage corresponds to the solenoid voltage [9]

### Reliability values acc. to EN ISO 13849-1

	Control of the guard locking
Category	Depending on external control of guard locking [10]
Performance Level	Depending on external control of guard locking [11]
PFH <sub>D</sub>	Depending on external control of guard locking [12]
	Monitoring of guard locking and the safety guard position
B10 <sub>D</sub>	$6 \times 10^6$

in combination with Actuator BETAETIGER-X-GQ, 079740

### Mechanical values and environment

Overtravel	1 mm
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in combination with Actuator BETAETIGER-X-GNQ, 079742, 098082, 097906

## Mechanical values and environment

Overtravel	8 mm
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[1] 11-pin + PE

[2, 3] Unlocking under load

[4, 5, 6]  $> 70^{\circ}\text{C} \Rightarrow 2\text{A}$

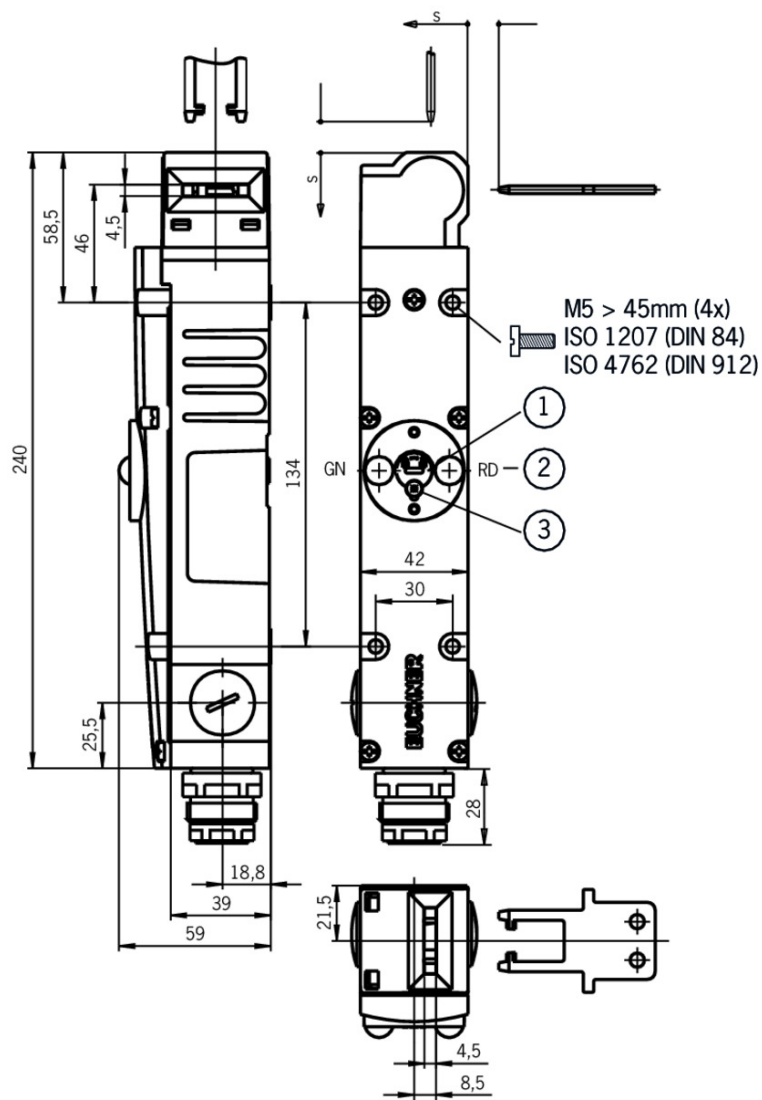
[7]  $> 70^{\circ}\text{C} \Rightarrow 2\text{A gG}$

[8] At the instant switched on 48W

[9] 2 LEDs; green, red

[10, 11, 12] LEDs have the same ground potential as the guard locking solenoid.

## Dimension drawing

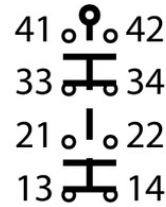
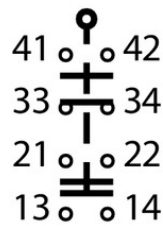
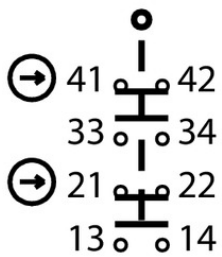
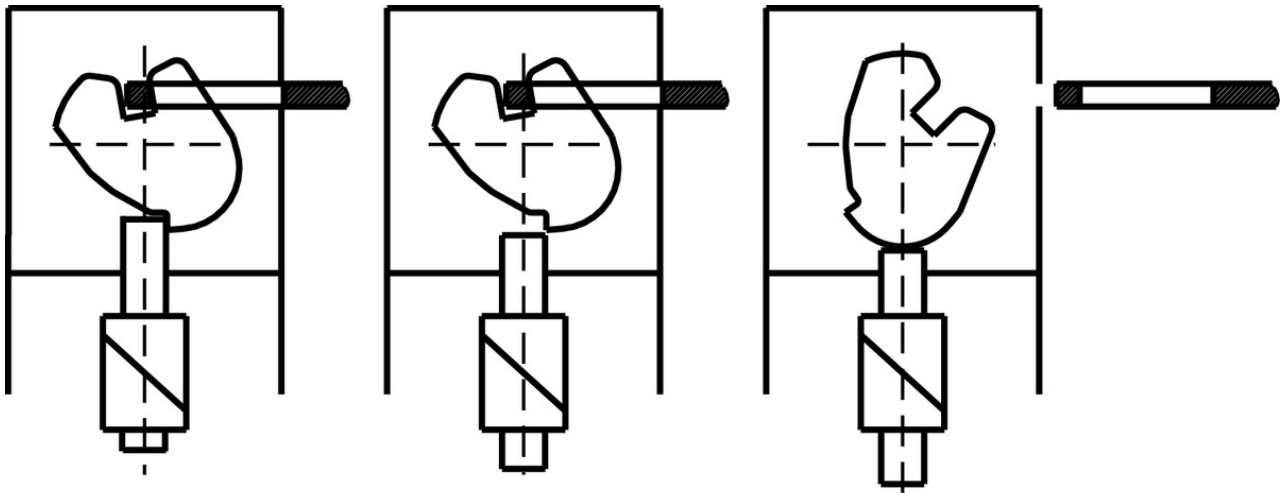


## Legende

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



## Switching functions



ETX C

## Function expansion

- ✓ Lock for mechanical release for safety switches TX



**079795** SCHLOSS TX GLEICHSCHLIESSEND



**079796** SCHLOSS TX VERSCHIEDENSCHLIESSEND

- ✓ Release with automatic reset for safety switches TX



**094773** ENTRIEGELUNG RUECKSTELLEND TX1/3

- ✓ Emergency unlocking for safety switches TX



**094771** NOTENTSPERRUNG TX

- ✓ Lockout mechanism NX/TX



**096098** SPERREINSATZ TX

- ✓ Features

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

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## Mounting accessories

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



**093458** EMP-B2

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



**093457** EMP-B1

- 
- ▼ 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

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## 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

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## Actuator

- 
- ▼ 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



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



**098082** RADIUSBETAETIGER-X-LR-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

- 
- ▼ 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

- 
- ▼ 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

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## Connection material

- ▼ Connection cable with plug connector SR11, 5m



**077629** C-M26F12-12X1,00PU05,0-MA-077629

▼ Features

- › Female plug SR11, 11-pin + PE
- › Straight plug connector
- › PUR cable
- › Cable length 5 m

- › With flying lead
- 

▼ Plug connector SR11 for safety switches NZ and TZ

**070859** SR11EF

▼ Features

- › Crimp contacts
  - › Cable optional
  - › Coding shells
- 

**054773** SR11WF

▼ Features

- › Crimp contacts
  - › 90° angled optional
  - › Cable optional
  - › Coding shells
- 

**091296** SR11AM2-M20

▼ Features

- › Crimp contacts
  - › Cable optional
  - › Coding shells
- 

▼ Connection cable with plug connector SR11, 25m



**094749** C-M26F12-12X1,0PU25,0-MA-094749

▼ Features

- › Female plug SR11, 11-pin + PE
  - › Straight plug connector
  - › PUR cable
  - › Cable length 25 m
  - › With flying lead
- 

▼ Connection cable with plug connector SR11, 10m



**077630** C-M26F12-12X1,00PU10,0-MA-077630

▼ Features

- › Female plug SR11, 11-pin + PE
  - › Straight plug connector
  - › PUR cable
  - › Cable length 10 m
  - › With flying lead
- 

▼ Connection cable with plug connector SR11, 15m



**077631** C-M26F12-12X1,00PU15,0-MA-077631

▼ Features

- › Female plug SR11, 11-pin + PE
- › Straight plug connector
- › PUR cable
- › Cable length 15 m

- › With flying lead
- 

- ✓ Connection cable with plug connector SR11, 20m



**096632** C-M26F12-12X1,0PU20,0-MA-096632

✓ Features

- › Female plug SR11, 11-pin + PE
  - › Straight plug connector
  - › PUR cable
  - › Cable length 20 m
  - › With flying lead
- 

- ✓ Connection cable with plug connector SR11, 15m, angled



**077637** C-M26F12-12X1,0PU15,0-MA-077637

✓ Features

- › Female plug SR11, 11-pin + PE
  - › Angled plug connector
  - › PUR cable
  - › Cable length 15 m
  - › With flying lead
- 

- ✓ Connection cable with plug connector SR11, 10m, angled



**077636** C-M26F12-12X1,0PU10,0-MA-077636

✓ Features

- › Female plug SR11, 11-pin + PE
  - › Angled plug connector
  - › PUR cable
  - › Cable length 10 m
  - › With flying lead
- 

- ✓ Connection cable with plug connector SR11, 5m, angled



**077635** C-M26F12-12X1,0PU05,0-MA-077635

✓ Features

- › Female plug SR11, 11-pin + PE
  - › Angled plug connector
  - › PUR cable
  - › Cable length 5 m
  - › With flying lead
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## Spare parts

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- ✓ Lead seal kit

**087256** PLOMBENSATZ C1937

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## 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 pouzdrém 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 pouzdrém	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 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