

## ITEM 106545 STA-TW-3A-4121AC024M

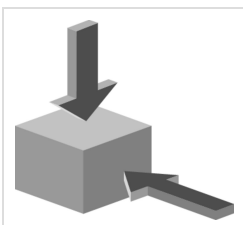
Description	Technical data	Accessories	Downloads
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### Features

- › Actuating heads made of metal
- › Simultaneous monitoring of two safety doors
- › 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%

## Guard locking type

**STA3** Closed-circuit current principle, guard locking by spring force. Release by applying voltage to the guard locking solenoid.

## Switching element

**4121** Slow-action switching contact 2 NC $\oplus$  + 1 NC/ 1 NO (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

Housing material	Alloy - die-cast
Weight	Net 0,6 kg
Ambient temperature	-20 ... 55 °C
Degree of protection	IP67
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 NC contacts	1
Number of door position NO contacts	1
Number of guard lock monitoring positively driven contacts	2
Connection	3 x M20 x 1.5
Approach speed	max. 20 m/min
Actuation frequency	1200 1/h
Guard locking principle	Closed-circuit current principle
Locking force F <sub>max</sub>	2500 N
Locking force F <sub>Zh</sub>	2000 N
Retention force	20 N
Extraction force	30 N
Actuating force	35 N

Insertion depth	min.24,5 mm
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### 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 <sup>2</sup>

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

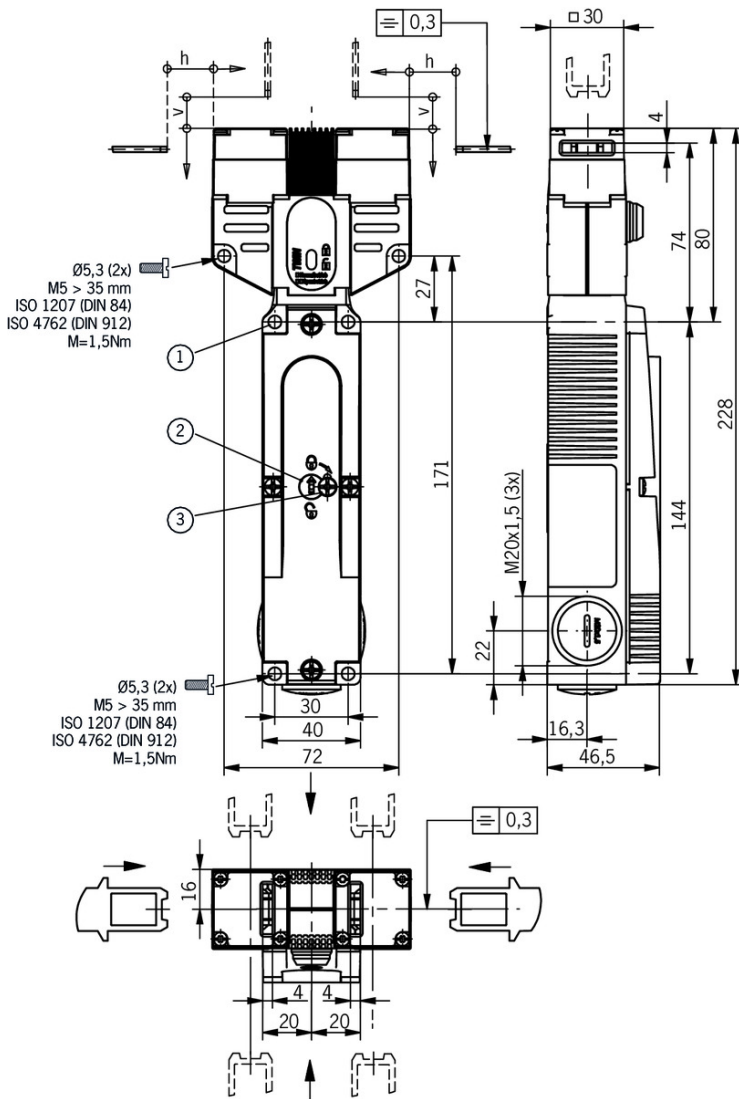
	<b>Control of the guard locking</b>
Category	Depending on external control of guard locking
Performance Level	Depending on external control of guard locking
PFH <sub>D</sub>	Depending on external control of guard locking
	<b>Monitoring of guard locking and the safety guard position</b>
B10 <sub>D</sub>	4,5 x 10 <sup>6</sup>

### in combination with Actuator BETAETIGER-S-GT-SN

### Mechanical values and environment

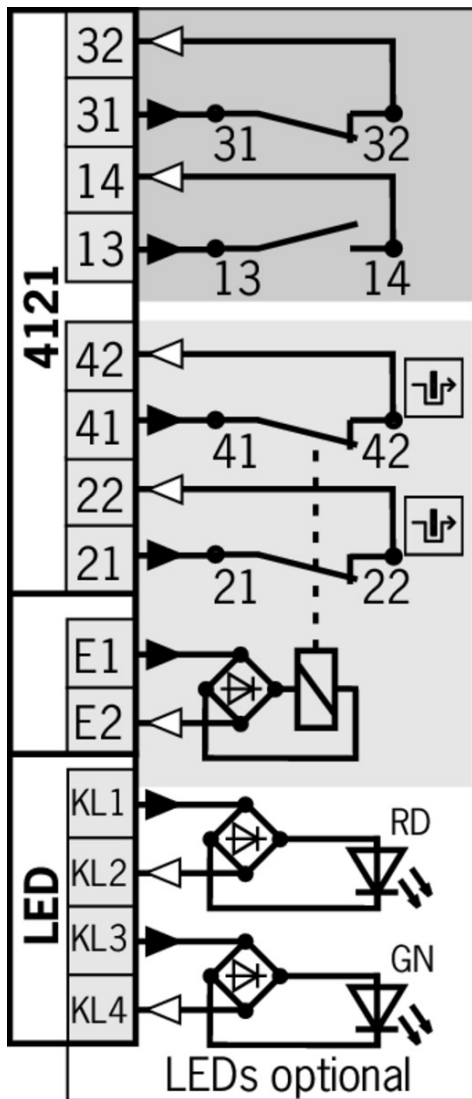
Overtravel	5 mm
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## Dimension drawing



## Legende

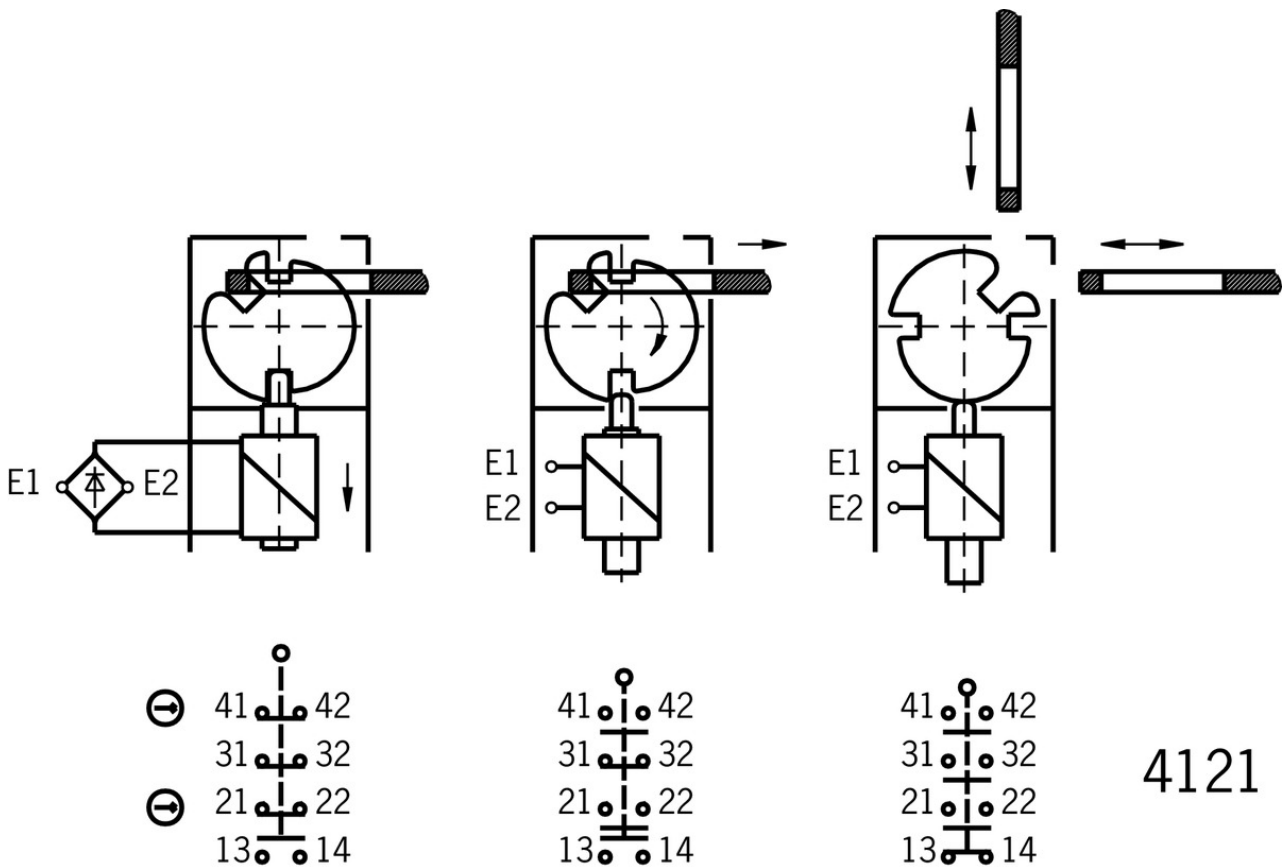
- 1 Do not screw tight here (2x)
- 2 Auxiliary release
- 3 Locking screw



**Legende**

- Solenoid monitoring
- Door monitoring

## Switching functions



## Actuator

- ✓ Actuator S for safety switches SGA/SGP/STA/STP/STM



**097861** BETAETIGER-S-G-SN-C2115

✓ Features

- › Two safety screws included
- › Physically compatible with TP actuator P-G



**095738** BETAETIGER-S-GT-SN

✓ Features

- › Two safety screws included
- › Actuators with rubber bushings

- ✓ Actuator S, bent, for safety switches SGA/SGP/STA/STP/STM



**095740** BETAETIGER-S-WQT-SN

✓ Features

- › Two safety screws included

- ✓ Hinged actuator S top/bottom for safety switches SGA/SGP/STA/STP/STM

**095315** RADIUSBETAETIGER-S-OU-SN

✓ Features



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

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▼ Hinged actuator S left/right for safety switches SGA/SGP/STA/STP/STM



**096838** RADIUSBETAETIGER-S-LR-SN

▼ Features

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

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## Function expansion

▼ Built-in LED



**087423** EINBAULEUCHTE LED M20X1,5



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

▼ Emergency unlocking for safety switches STA



**099876** NOTENTSPERRUNG STA

▼ Lockout bar STA/STP/SGA/SGP/STM



**105701** SPERREINSATZ STP/STA

▼ Features

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

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



**105329** FE-GRIFF

▼ Handle for wire front release



**099795** AY-HDL-099795

▼ Features

- › Suitable for all wire front releases

▼ 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)



**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)



**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)



**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)



**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)



**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)



**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)

## Connection material

✓ Cable glands M20x1.5



**086233** EKPM20/06 086233















## Instructions

### ▼ Istruzioni di impiego Finecorsa di sicurezza STA-TW... (Twin)

	Doc. no.	Version	Language	Download
Betriebsanleitung Sicherheitsschalter STA-TW... (Twin)	2105875	05-01/18		 5.5 MB
Operating Instructions Safety Switch STA-TW... (Twin)				
Manual de instrucciones Interruptores de seguridad STA-TW... (Twin)				
Mode d'emploi Interrupteur de sécurité STA-TW... (Twin)				
Istruzioni di impiego Finecorsa di sicurezza STA-TW... (Twin)	2105875	05-01/18		 1.4 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	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				