

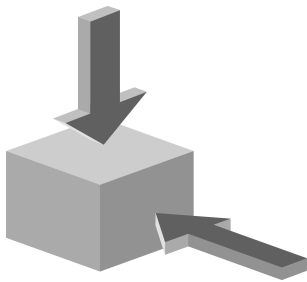
STA-TW-3A-4121AC024M (Order no. 106545)

Safety switch STA-TWIN with door monitoring contact

- ▶ Two actuating heads made of metal
- ▶ Simultaneous monitoring of two safety doors
- ▶ Auxiliary release on the front
- ▶ With door monitoring contact



Approach direction



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

This 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.

Technical data

Approvals



Electrical connection values

Fuse	max. 4 A gG
Power consumption	8 W
Connection cross section	0.34 ... 1.5 mm ²
Rated insulation voltage U_i	250 V
Rated impulse voltage U_{imp}	2.5 kV
Utilization category	
	DC-13 4 A 24 V
	AC-15 4 A 230 V
Solenoid operating voltage	
	AC/DC 24 V -15% ... +10%
Solenoid duty cycle	100 %
Switching voltage	
	min. at 10 mA 12 V
Switching current	
	min. at 24 V 1 mA
thermal rated current I_{th}	4 A

Mechanical values and environment

Anfahrsgeschwindigkeit	max. 20 m/min
Approach direction	A and C (two actuating heads)
Connection type	
	3 x M20 x 1.5
Number of door position NC contacts	1
Number of door position NO contacts	1

Number of guard lock monitoring positively driven contacts	2
Extraction force	30 N
Actuation frequency	max. 1200 1/h
Actuating force	35 N
Installation orientation	any
Insertion depth	24.5 mm
Storage temperature	-25 ... 70 °C
Mechanical life	1 x 10 ⁶
Retention force	20 N
Switching principle	Slow-action switching contact
Degree of protection	IP67
Ambient temperature	-20 ... 55 °C
Material	
	Housing Alloy – die-cast
	Contact Silver alloy, gold flashed
Locking force F _{max}	2500 N
Locking force F _{Zh}	2000 N
Guard locking principle	Closed-circuit current principle

Characteristic values according to EN ISO 13849-1 and EN IEC 62061

	B10 _D	Mission time
Guard lock monitoring	4.5x10 ⁶	20 y
	Important! Values valid at DC-13 100 mA/24V	

	PL	Maximum SIL	Category	Mission time
Control of guard locking	Depending on external control of guard locking			20 y

In combination with actuator ACTUATOR-S-GT-SN

Overtravel	5 mm
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