

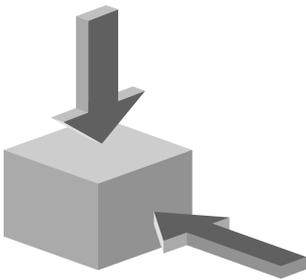
STA3A-4121A024SR11 (Order no. 105304)

Safety switch STA, plug connector SR11, with door monitoring contact

- ▶ Auxiliary release on the front
- ▶ With door monitoring contact
- ▶ Plug connector SR11



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 \ominus + 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	
Rated insulation voltage U_i	50 V	
Rated impulse voltage U_{imp}	1.5 kV	
Utilization category		
	DC-13	4 A 24 V
	AC-15	4 A 50 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

Anfahrgeschwindigkeit	max. 20 m/min	
Approach direction	A	
Connection type		
	1 x	Plug connector SR11 (11-pin + PE)
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 ... 80 °C
Mechanical life	1 x 10 ⁶
Retention force	20 N
Switching principle	Slow-action switching contact
Degree of protection	IP65
Ambient temperature	-20 ... 80 °C
Material	
	Housing Alloy – die-cast
	Contact Silver alloy, gold flashed
Locking force F _{max}	3000 N
Locking force F _{Zh}	2300 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	1.15x10 ⁷	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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