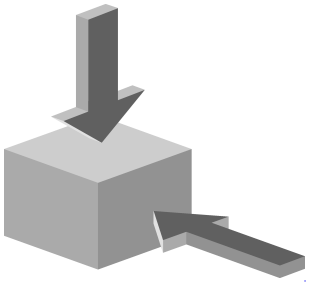
STA4A-4141A024M (Order no. 109172)

Safety switch STA with door monitoring contact

- 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

STA4 Open-circuit current principle, guard locking by applying voltage to the guard locking solenoid. Release by spring force.

Switching element

4141 Slow-action switching contact 2 NC ⊖ + 2 NC ⊖ (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 mm²
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

Anfahrgeschwindigkeit		max. 20 m/min
Approach direction		A
Connection type		
	3 x	M20 x 1.5
Number of door position positively driven contacts		2
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	IP67
Ambient temperature	–20 … 80 °C
Material	
Contact	Silver alloy, gold flashed
Housing	Alloy – die-cast
Locking force F_{max}	3000 N
Locking force F_{Zh}	2300 N
Guard locking principle	Open-circuit current principle

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

	$B10_D$	Mission time
Monitoring of the guard position	1.15x10^7	20 y
	Important! Values valid at DC-13 100 mA/24V	
Guard lock monitoring	1.15x10^7	20 y
	Important! Values valid at DC-13 100 mA/24V	

In combination with actuator ACTUATOR-S-GT-SN

Overtravel	5 mm