

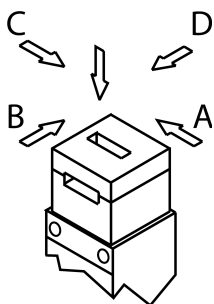
TP3-4141A024L024M (Order no. 137709)

Safety switch TP, cable entry M20 x 1.5, contacts for the door position

- ▶ 3 x cable entry M20 x 1.5
- ▶ Contacts for the door position
- ▶ Auxiliary release
- ▶ LED indicator
- ▶ Closed-circuit current principle



Approach direction



Horizontal and vertical

Can be adjusted in 90° steps

Increased overtravel for horizontal approach direction


If increased play is required when the door is closed, an actuator with overtravel is available. With this actuator the door can move slightly in the actuating direction when closed. This is important, for example, if safety doors have a rubber end stop. Using an actuator with overtravel, the continuous pressure from the compressed rubber can be reduced. In this way the load is reduced on the switch head and the door mechanism.


Guard locking principle

Power to unlock: On a guard with guard locking based on the closed-circuit current principle, the guard is locked by spring force until the guard locking solenoid is supplied with power. Unlocking is by solenoid force. The term mechanical guard locking is also used.

Switching element

4141 Slow-action switching contact

Contacts for guard locking: 2 positively driven contacts 

Contacts for door monitoring: 2 positively driven contacts 

LED indicator

The switch has two freely assignable LED indicators (red and green).

Auxiliary release

The auxiliary release on the front makes it possible to access the machine if there is a malfunction, e.g. a power failure. Unlocking is performed using a tool or a key. The auxiliary release must be protected against misuse (sealing, lacquer).

Accessories required

Actuator is not included.

Technical data

Approvals



Electrical connection values

Fuse	max. 4 A gG	
Power consumption	8 W	
Connection cross section	0.34 ... 1.5 mm ²	
Display module		
	AC/DC	24 V -15% ... +10%
Rated insulation voltage U_i	250 V	
Rated impulse voltage U_{imp}	2.5 kV	
Utilization category		
	AC-15	4 A 230 V
	DC-13	4 A 24 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	
Connection type		
	3 x	M20 x 1.5
Number of door position positively driven contacts	2	