

Safety switch TZ with guard locking and guard lock monitoring



- ▶ Mechanical release on the front
- ▶ Two LED indicators, red and green
- ▶ Plug connector optional
- ▶ Actuating head fitted left or right



Approach direction

Horizontal
Adjustable in 90° steps.

Mechanical release

Is used for releasing the guard locking with the aid of a tool. A sealing wire can be fitted to protect against tampering. Lead seal kit and tool included (already pre-assembled on versions with plug connectors).

Solenoid operating voltage and LED function display

The following voltage ranges are available:

- ▶ 24 V AC/DC -15%, +10%
- ▶ 110 V AC -15%, +10%
- ▶ 230 V AC -15%, +10%

Guard locking types

TZ1 Closed-circuit current principle, guard locking by spring force. Release by applying voltage to the solenoid.

TZ2 Open-circuit current principle, guard locking by applying voltage to the solenoid. Release by spring force.

Switching elements (See also page 13/14)

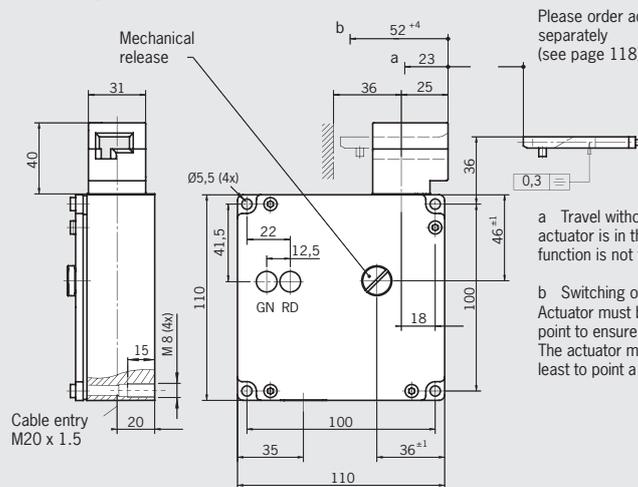
SK For monitoring the door/actuator position
ÜK For monitoring the guard locking (built-in solenoid)

For combinations available see ordering table:

- ▶ **528H** Slow-action 1 NC ⊕ + 1 NO
- ▶ **2121H** Slow-action 4 NC ⊕
- ▶ **2131H** Slow-action 3 NC ⊕ + 1 NO
- ▶ **3131H** Slow-action 2 NC ⊕ + 2 NO

Cable entry M20 x 1.5

Dimension drawings Actuating head on the left is a mirror image



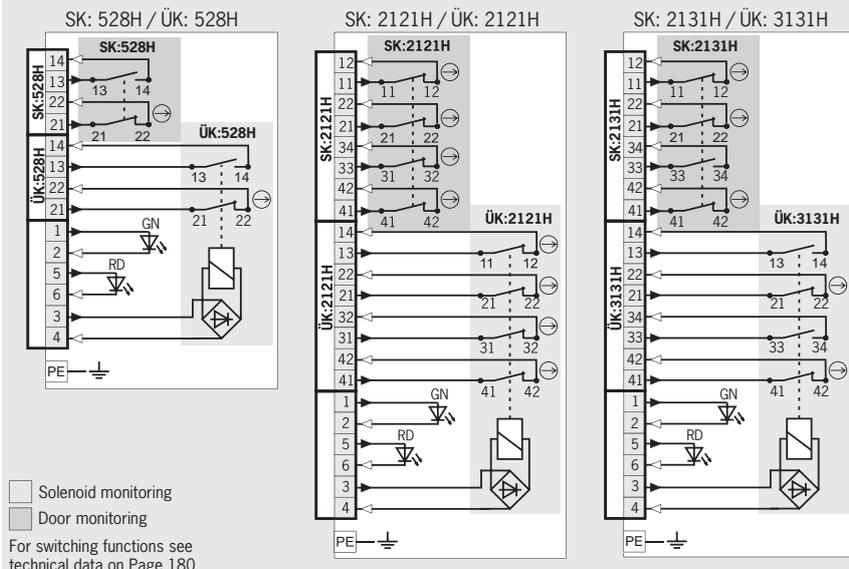
Please order actuator separately (see page 118)

a Travel without operation: actuator is in the guide slot, but function is not triggered.

b Switching operation completed: Actuator must be inserted to this point to ensure reliable switching. The actuator must be withdrawn at least to point a for switching off.

Cable gland see page 132

Wiring diagrams Actuator inserted and locked



Ordering table

Series	Conne- ction	Guard locking	Switch head	Switching element	Black cover			Red cover	
					24 V	110 V	230 V	24 V	110 V
TZ	M20x1.5	1 Mechanical	LE left	SK: 528H, 1 NC ⊕ + 1 NO ÜK: 528H, 1 NC ⊕ + 1 NO	082050 TZ1LE024M	083160 TZ1LE110M	083166 TZ1LE220M	083164 TZ1LE024M-R	083168 TZ1LE110M-R
				SK: 2121H, 4 NC ⊕ ÜK: 2121H, 4 NC ⊕	On request	On request	On request	089464 1) TZ1LE024MVFGR-C1925	On request
			RE right	SK: 2131H, 3 NC ⊕ + 1 NO ÜK: 3131H, 2 NC ⊕ + 2 NO	083965 TZ1LE024MVAB	088023 TZ1LE110MVAB	088029 TZ1LE220MVAB	089434 TZ1LE024MVAB-R	On request
				SK: 528H, 1 NC ⊕ + 1 NO ÜK: 528H, 1 NC ⊕ + 1 NO	082051 TZ1RE024M	083161 TZ1RE110M	083167 TZ1RE220M	083165 TZ1RE024M-R	089448 TZ1RE110M-R
		2 Electrical	LE left	SK: 2121H, 4 NC ⊕ ÜK: 2121H, 4 NC ⊕	On request	On request	On request	089465 1) TZ1RE024MVFGR-C1925	On request
				SK: 2131H, 3 NC ⊕ + 1 NO ÜK: 3131H, 2 NC ⊕ + 2 NO	083966 TZ1RE024MVAB	088024 TZ1RE110MVAB	088030 TZ1RE220MVAB	083233 TZ1RE024MVAB-R	On request
			RE right	SK: 528H, 1 NC ⊕ + 1 NO ÜK: 528H, 1 NC ⊕ + 1 NO	090559 TZ2LE024M	083162 TZ2LE110M	088031 TZ2LE220M	089445 TZ2LE024M-R	On request
				SK: 2131H, 3 NC ⊕ + 1 NO ÜK: 3131H, 2 NC ⊕ + 2 NO	088070 TZ2LE024MVAB	088025 TZ2LE110MVAB	088027 TZ2LE220MVAB	On request	On request
RE right	SK: 528H, 1 NC ⊕ + 1 NO ÜK: 528H, 1 NC ⊕ + 1 NO	090560 TZ2RE024M	083163 TZ2RE110M	088032 TZ2RE220M	089446 TZ2RE024M-R	On request			
	SK: 2131H, 3 NC ⊕ + 1 NO ÜK: 3131H, 2 NC ⊕ + 2 NO	088071 TZ2RE024MVAB	088026 TZ2RE110MVAB	088028 TZ2RE220MVAB	On request	On request			

1) No DGVU approval