

# Safety switch TZ with guard locking and guard lock monitoring





- Mechanical release on the front
- Escape release on the rear with key button
- Two LEDs, red and green
- Plug connector optional
- Actuating head fitted left or right



## Approach direction



Horizontal

Can be adjusted in 90° steps.

#### Escape release

Is used for the manual release of the guard locking from within the danger area without tools. The disable can only be removed and the switch returned to its operating state using a key included (2 keys included).

A sealing wire can be fitted to protect against tampering. Lead sealing kit and tool included (already pre-assembled on versions with plug connectors).

### Solenoid operating voltage and LED function display

The following voltage range is available:

24 V AC/DC -15%, +10%

110 V -15%, +10%

### **Guard locking types**

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

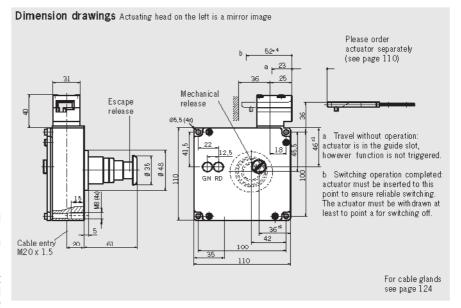
Open-circuit current principle, guard locking by applying voltage to the solenoid. Release by spring force.

Switching elements (see also Page 13/14) SK For monitoring the door/actuator position ÜK For monitoring the guard locking (built-in

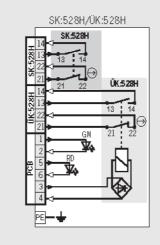
For combinations available see ordering table:

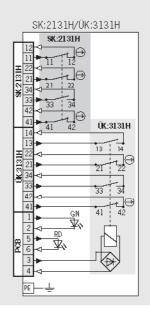
- 528H Slow-action switching element 1 NC → + 1 NO
- Slow-action switching element 2131H 3 NC → + 1 NO
- 3131H Slow-action switching element 2 NC → + 2 NO

## Cable entry M20 x 1.5



### Wiring diagrams Actuator inserted and locked





#### Ordering table

Ordering table							
Series	Connection	Guard	Switch	Contrabina alamant	Version	Black cover	
		locking	head	Switching element		24 V	110 V
TZ	M20x1.5	1		SK: <b>528H</b> , 1 NC → + 1 NO	Escape release	087 990	On request
			LE	ÜK: <b>528H</b> , 1 NC ↔ + 1 NO	(red key button)	TZ1LE024M-C1815	
			Left	SK: <b>2131H</b> , 3 NC ⊕ + 1 NO	Escape release	089 468	094 311
				ÜK: <b>3131H</b> , 2 NC ⊖ + 2 NO	(red key button)	TZ1LE024MVAB-C1828	TZ1LE110MVAB-C1828
		Mechanical		SK: <b>528H</b> , 1 NC → + 1 NO	Escape release	087 991	On request
			RE	ÜK: <b>528H</b> , 1 NC ↔ + 1 NO	(red key button)	TZ1RE024M-C1815	
			Right	SK: <b>2131H</b> , 3 NC → + 1 NO	Escape release	089 469	094 312
				ÜK: <b>3131H</b> , 2 NC ↔ + 2 NO	(red key button)	TZ1RE024 MVAB-C1828	TZ1RE110MVAB-C1828
		2		SK: <b>528H</b> , 1 NC ⊖ + 1 NO	Escape release	089 460	On request
			LE	ÜK: <b>528H,</b> 1 NC → + 1 NO	(red key button)	TZ2LE024M-C1815	
			Left	SK: <b>2131H</b> , 3 NC → + 1 NO	Escape release	087 290	On request
				ÜK: <b>3131H</b> , 2 NC → + 2 NO	(red key button)	TZ2LE024MVAB-C1828	
		Electrical	<b>RE</b> Right	SK: <b>528H</b> , 1 NC → + 1 NO	Escape release	089 461	On request
				ÜK: <b>528H</b> , 1 NC ⊖ + 1 NO	(red key button)	TZ2RE024M-C1815	
				SK: <b>2131H</b> , 3 NC → + 1 NO	Escape release	087 291	On request
				ÜK: <b>3131H</b> , 2 NC ⊖ + 2 NO	(red key button)	TZ2RE024 MVAB-C1828	