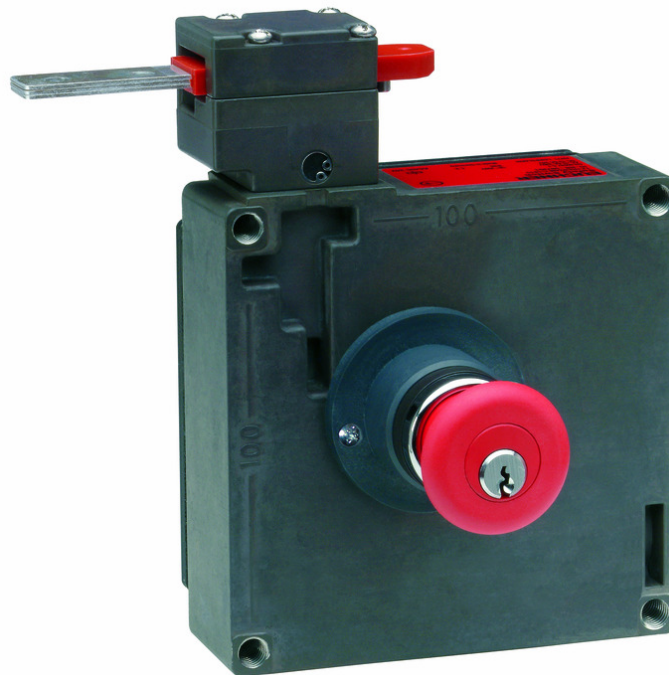


ITEM 087291 TZ2RE024MVAB-C1828

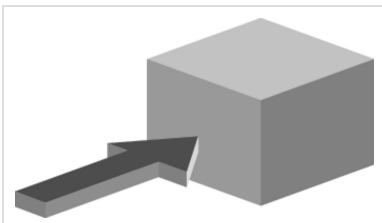
Description	Technical data	Accessories	Downloads
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Features

- › Auxiliary release on the front
- › Escape release on the rear with key button
- › Two LED indicators, red and green
- › Actuating head fitted right

Approach direction



- › Figure
Horizontal
Can be adjusted in 90° steps

Solenoid operating voltage and LED function display

- › 24 V AC/DC -15%, +10%

Guard locking type

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

Switching elements

SK For monitoring the door/actuator position

ÜK For monitoring the guard locking (built-in solenoid)

2131H Slow-action switching contact 3 NC $\ominus$ + 1 NO

3131H Slow-action switching contact 2 NC $\ominus$ + 2 NO

Auxiliary release

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

Escape release

This is used for manual release of 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).

Approvals



Mechanical values and environment

Housing material	Anodized die-cast alloy
Weight	
Net	1,2 kg
Ambient temperature	-25 ... 80 °C
Degree of protection	IP67
Mechanical life	1 x 10 ⁶
Contact material	Silver alloy, gold flashed
Switching principle	Slow-action switching contact
Installation position	Any
Number of door position positively driven contacts	3
Number of door position NO contacts	1
Number of guard lock monitoring positively driven contacts	2
Number of guard lock monitoring NO contacts	2
Connection	

	1 x	M20 x 1.5
Approach speed		max.20 m/min
Actuation frequency		1200 1/h
Guard locking principle		Open-circuit current principle
Locking force $F_{\max}$		2000 N
Locking force F_{Zh}		1500 N
Retention force		10 N
Extraction force		30 N
Actuating force		35 N
Insertion depth		min.52 mm
Cover lid		Black

Electrical connection ratings

Rated thermal current I_{th}		4 A ^[1]
Utilization category according to EN 60947-5-1		
	AC-15	4A 230V ^[2]
	DC-13	4A 24V ^[3]
Solenoid operating voltage		
	AC/DC	24 V -15% ... +10%
Short circuit protection according to IEC 60269-1		
	(Fuse)	4A gG ^[4]
Rated insulation voltage U_i		250 V
Rated impulse withstand voltage U_{imp}		2,5 kV
Switching voltage		
	Min. at 10mA	12 V
Switching current		
	Min. at 24V	1 mA
Power consumption		10 W
Solenoid duty cycle		100 %
Connection cross-section		0,34 ... 1,5 mm ²
LED indicator		Operating voltage corresponds to the solenoid voltage ^[5]

Miscellaneous

C number		
	C1828	with escape release ^[6]

Reliability values acc. to EN ISO 13849-1

		Monitoring of guard locking and the safety guard position
B10D		3×10^6

in combination with Actuator BETAETIGER-Z-G

Mechanical values and environment

Overtravel	4 mm
------------	------

in combination with Actuator BETAETIGER-Z-GN

Mechanical values and environment

Overtravel	16 mm
------------	-------

[1, 2, 3] $> 70^{\circ}\text{C} \Rightarrow 2\text{A}$

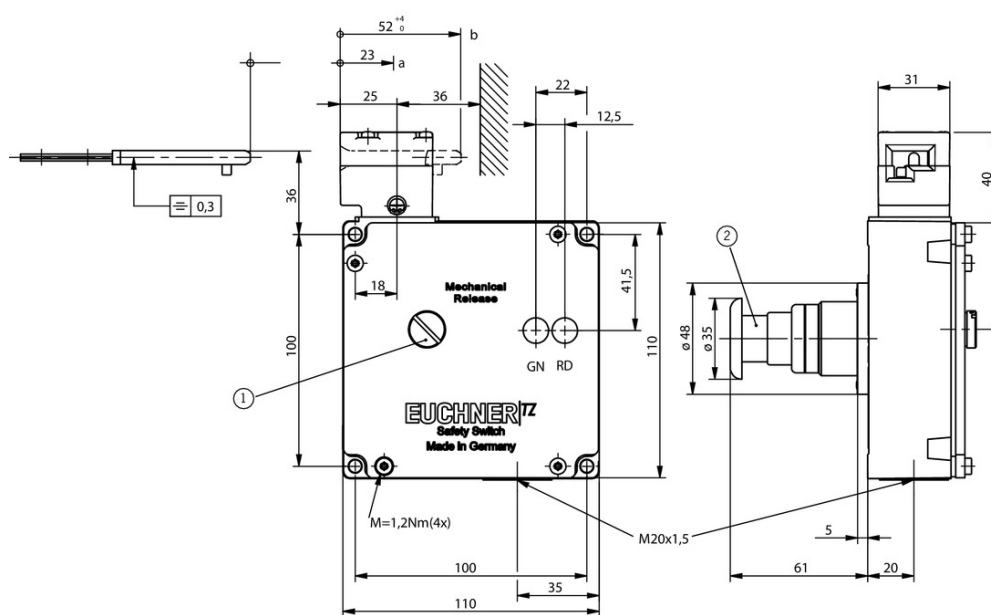
[4] $> 70^{\circ}\text{C} \Rightarrow 2\text{A gG}$

[5] 2 LEDs; green, red

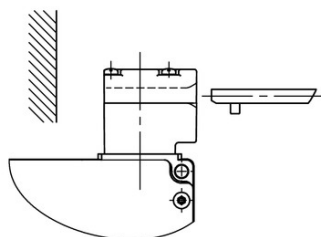
[6] (Mushroom-head key button)

Dimension drawing

TZ.L...



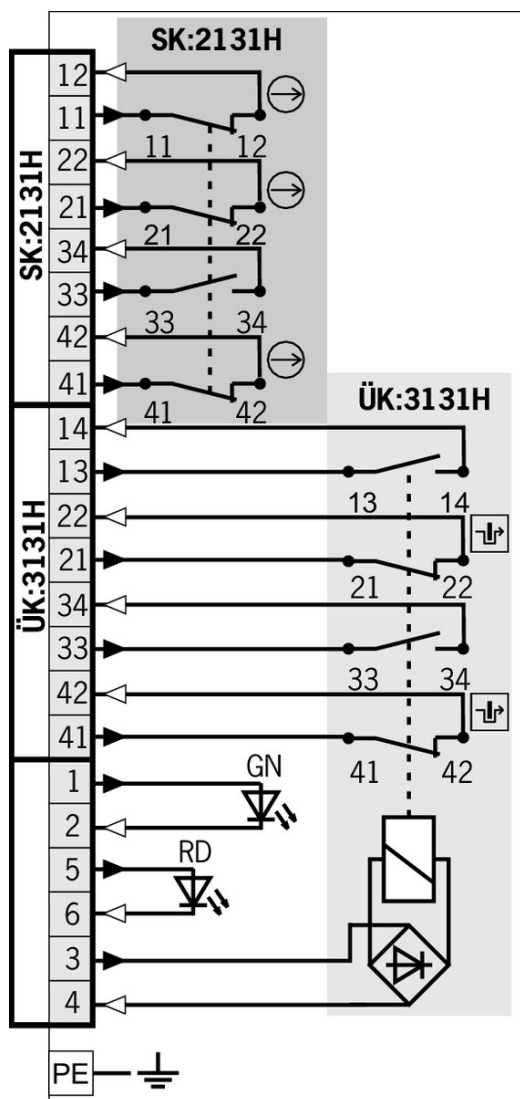
TZ.R...



Legende

- 1 Auxiliary release
- 2 Escape release (red key button)

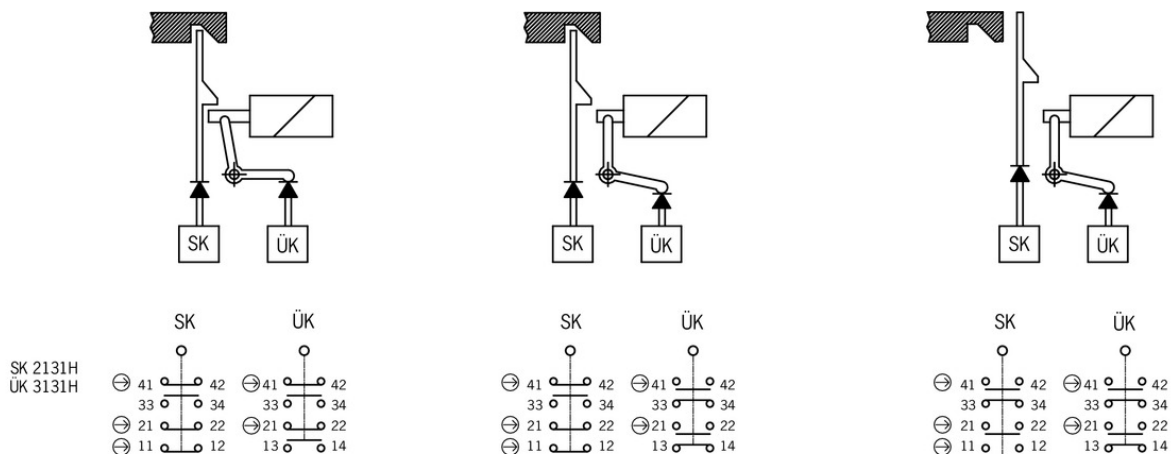
SK: 2131H / ÜK: 3131H



Legende

- Solenoid monitoring
- Door monitoring

Switching functions



Function expansion

Lockout mechanism NZ.VZ/TZ, 5 holes

086538 SPERREINSATZ-Z-086538

Features

- › Prevents unintentional closing of the door
- › Can be secured with padlocks

Protective plate NZ.VZ/TZ

059136 SCHUTZBLECH NZ/TZ

Lockout mechanism NZ.VZ/TZ, 3 holes



091305 SPERREINSATZ MIT KETTE

Features

- › Prevents unintentional closing of the door
- › Can be secured with padlocks



046730 SPERREINSATZ-Z-046730

Features

- › Prevents unintentional closing of the door
- › Can be secured with padlocks

Adapter NZ/TZ 45/30



079033 ADAPTER NZ/TZ 45/30

Features

- › The adapter NZ/TZ 45/30 is used to compensate for different profiles, doors/frame 45/30

Spare parts

- ✓ Lead seal kit

048257 PLOMBENSATZ TZ

Bolt

- ✓ Bolt BTC-TZ00... with escape release for safety switch TZ



106279 BTC-TZ00-A-TH-01-F

- ✓ Features

- › Aluminum bolt
 - › For doors hinged on the right
 - › Lever for escape release from the danger area
 - › Pushbutton in open position
 - › Can be locked in open position with padlocks
 - › Actuator included
-

- ✓ Bolt TZ-AF with escape release for safety switches TZ with escape release



076200 RIEGEL TZ-AF

- ✓ Features

- › Steel bolt
 - › For doors hinged on the right
 - › Escape release
 - › Lever for escape release from the danger area
 - › Detent knob in open position
 - › Can be locked in open position with padlocks
 - › Actuator and switch bracket included
-

- ✓ Bolt NZ/TZ-ACF with escape release for safety switches NZ.VZ and TZ with escape release



083900 RIEGEL NZ/TZ-ACF

- ✓ Features

- › Steel bolt
 - › For doors hinged on the right or left
 - › Lever for escape release from the danger area
 - › Detent knob in open position
 - › Can be locked in open position with padlocks
 - › Bolt for two safety switches
 - › Actuator included
-

- ✓ Bolts NZ/TZ-S1/AF and NZ/TZ-S1/CF with escape release for safety switches NZ.VZ, NZ.VZ.VS and TZ with escape release



079786 RIEGEL NZ/TZ-S1/AF

- ✓ Features

- › Aluminum bolt
- › For doors hinged on the right

- › Escape release
 - › Spring catch in open position
 - › Can be locked in open position with padlocks
 - › Actuator included
-

Mounting accessories

- ▼ Mounting plates EMP-B1 for actuators for safety switches CTP, TP...A, STA, STP, TX and TZ



093457 EMP-B1

- ▼ Mounting plates EMP-B2 for actuators for safety switches CTP, TP...A, STA, STP, TX and TZ



093458 EMP-B2

- ▼ Mounting plates EMP-SA for safety switches TZ



094401 EMP-SA

- ▼ Features

- › For vertical and horizontal mounting of safety switch TZ
-

- ▼ Safety screws for actuators, M5 x 10

073455 M5X10-NIRO/V100 NZ/TZ

- ▼ Features

- › Safety screws M5 x 10
 - › Packaging unit 100 pieces
-

- ▼ Safety screws for actuators, M5 x 16

073456 M5X16/V100

- ▼ Features

- › Safety screws M5 x 16
 - › Packaging unit 100 pieces
-

- ▼ Safety screws M5 x 25

073457 M5X25/V100

- ▼ Features

- › Safety screws M5 x 25
 - › Packaging unit 100 pieces
-

Actuator

- ▼ Hinged actuator left for safety switches NZ.VZ, NZ.VZ.VS and TZ



100407 RADIUSBETAETIGER-Z-L-C2194

✓ Features

- › Two stainless safety screws per actuator
- › Smaller door radii



074413 RADIUSBETAETIGER-Z-L/V25

✓ Features

- › Two stainless safety screws per actuator
- › Packaging unit 25 pieces



024298 RADIUSBETAETIGER-Z-L

✓ Features

- › Two stainless safety screws per actuator

✓ Hinged actuator bottom for safety switches NZ.VZ, NZ.VZ.VS and TZ



048850 RADIUSBETAETIGER-Z-U

✓ Features

- › Two stainless safety screws per actuator



074414 RADIUSBETAETIGER-Z-U/V25

✓ Features

- › Two stainless safety screws per actuator
- › Packaging unit 25 pieces

✓ Hinged actuator right for safety switches NZ.VZ, NZ.VZ.VS and TZ



100406 RADIUSBETAETIGER-Z-R-C2194

✓ Features

- › Two stainless safety screws per actuator
- › Smaller door radii



074412 RADIUSBETAETIGER-Z-R/V25

✓ Features

- › Two stainless safety screws per actuator
- › Packaging unit 25 pieces



024299 RADIUSBETAETIGER-Z-R

✓ Features

- › Two stainless safety screws per actuator

✓ Actuators for safety switches NZ.VZ, NZ.VZ.VS and TZ



072251 BETAETIGER-Z-GN

✓ Features

- › Two stainless safety screws per actuator

097436 BETAETIGER-Z-GME



▼ Features

- › Made of solid stainless steel
- › Two stainless safety screws per actuator



074411 BETAETIGER-Z-G/V25

▼ Features

- › Two stainless safety screws per actuator
- › Packaging unit 25 pieces



016849 BETAETIGER-Z-G

▼ Features

- › Two stainless safety screws per actuator

▼ Hinged actuator top for safety switches NZ.VZ, NZ.VZ.VS and TZ



057950 RADIUSBETAETIGER-Z-O

▼ Features

- › Two stainless safety screws per actuator



074415 RADIUSBETAETIGER-Z-O/V25

▼ Features

- › Two stainless safety screws per actuator
- › Packaging unit 25 pieces

Connection material

▼ Cable glands M20x1.5



077684 EKVM20/09

Instructions

▼ Betriebsanleitung Sicherheitsschalter TZ...

	Doc. no.	Version	Language	Download
Betriebsanleitung Sicherheitsschalter TZ... Operating Instructions TZ... Safety Switch Manual de instrucciones del interruptor de seguridad TZ... Mode d'emploi Interrupteur de sécurité TZ... Istruzioni di impiego dei finecorsa di sicurezza TZ...	2088062	09-05/18	 	6.9 MB
Instrukcja obsługi wyłącznika bezpieczeństwa TZ...	2088062	09-05/18		1.8 MB

Manual de instruções da chave de segurança TZ...	2088062	09-05/18		 1.5 MB
Руководство по эксплуатации предохранительных выключателей TZ...	2088062	09-05/18		 1.9 MB
Návod na obsluhu – bezpečnostný spínač TZ...	2088062	09-05/18		 1.8 MB
使用说明书安全开关 TZ...	2088062	09-05/18		 1.6 MB

Catalogs

- ✓ Sicherheitsschalter mit Metallgehäuse Safety Switches with Metal Housing Bezpečnostní spínače s kovovým pouzrdem Interrupteurs de sécurité avec boîtier métallique 金属壳体 的安全开关 Interruptores de seguridad con carcasa metálica

	Doc. no.	Version	Language	Download
Sicherheitsschalter mit Metallgehäuse	100319	11-03/18		 7.9 MB
Interrupteurs de sécurité avec boîtier métallique	100676	11-03/18		 7.9 MB
Interruptores de seguridad con carcasa metálica	104856	11-03/18		 14.0 MB
Safety Switches with Metal Housing	100369	11-03/18		 7.9 MB
Bezpečnostní spínače s kovovým pouzrdem	121650	11-03/18		 7.9 MB
金属壳体 的安全开关	102453	11-03/18		 8.2 MB

Declaration of conformity

- ✓ EU prohlášení o shodě

	Doc. no.	Version	Language	Download
EU-Konformitätserklärung Declaración UE de conformidad Déclaration UE de conformité Dichiarazione di conformità EU declaration of conformity	2077153	25-02/17	    	 0.3 MB
EU prohlášení o shodě EU-overensstemmelseserklæring Δήλωση συμμόρφωσης της ΕΕ EU-vaatimustenmukaisuusvakuutus EU-típusbizonyítvány EU-conformiteitsverklaring Deklaracja zgodności UE Declaração de Conformidade UE Declarația de conformitate UE EÚ vyhlásenie o zhode	2077153	25-02/17	         	 0.5 MB

CAD data

CAD data for this item on TraceParts