

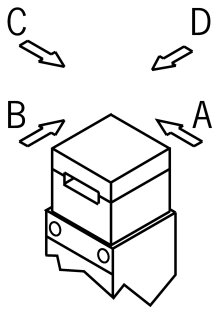
TZ1LE220SR6 (Order no. 046504)

Safety switch TZ, plug connector M26 (SR6)

- Plug connector M26 (SR6)
- Auxiliary release
- LED indicator
- Actuating head fitted left
- Closed-circuit current principle



Approach direction



Horizontal

Can be adjusted in 90° steps

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.

LED indicator

The LED indicator illuminates red when the safety door is open or closed. It switches off when the safety door is locked. The LED indicator illuminates green when the safety door is closed or closed and locked.

Switching element

SK 528 Slow-action switching contact

Contacts for door monitoring: 1 positively driven contact  + 1 NO contact

ÜK 528 Slow-action switching contact

Contacts for guard locking: 1 positively driven contact  + 1 NO contact

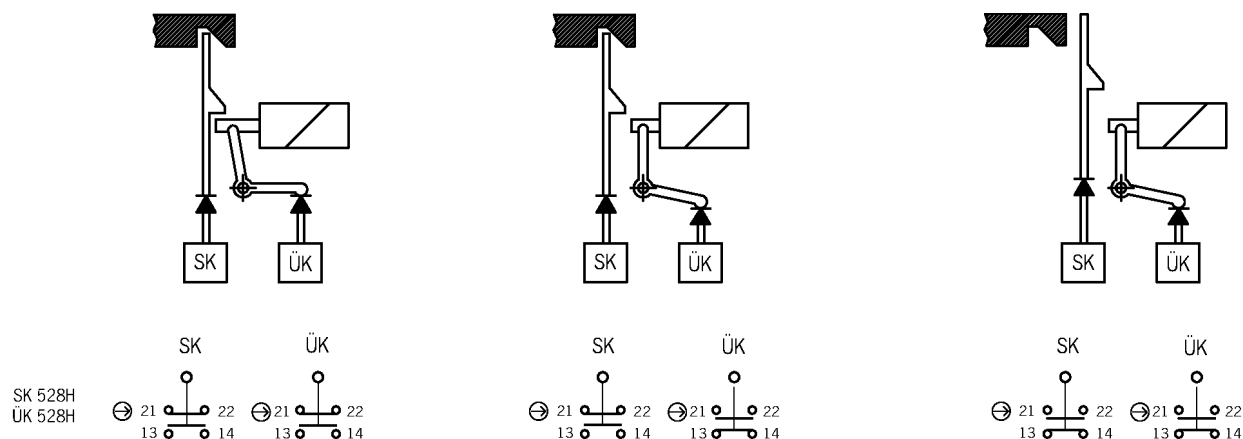
Auxiliary release

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).

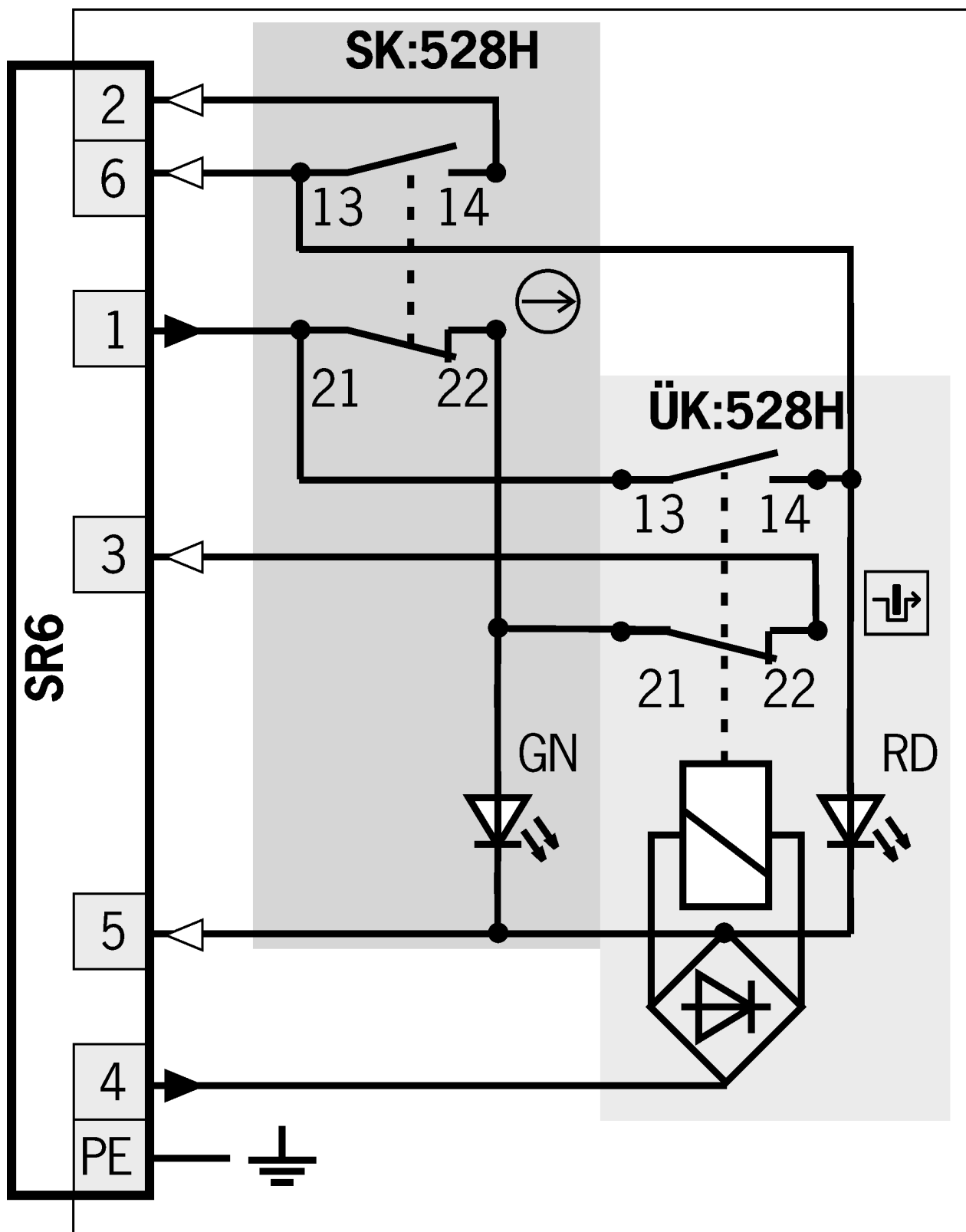
Accessories required

Actuator is not included.

Functional drawings



Connection examples

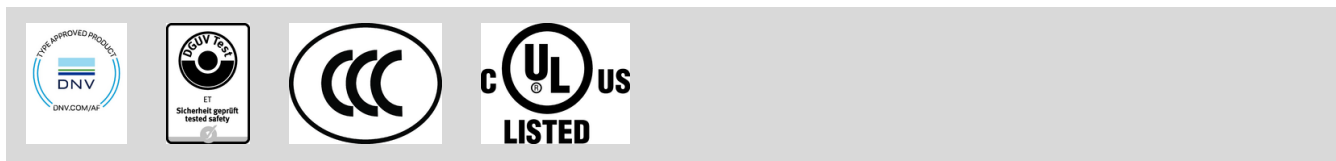


Door monitoring

Solenoid monitoring

Technical data

Approvals



Operating and display elements

LED display

Operating voltage corresponds to the solenoid voltage
(2 LEDs; green, red)

Electrical connection values

Fuse	max. 4 A gG (>70 °C => 2 A gG)
Power consumption	10 W
Rated insulation voltage U_i	250 V
Rated impulse voltage U_{imp}	2.5 kV
Utilization category	
	DC-13 4 A 24 V (>70 °C => 2 A)
	AC-15 4 A 230 V (>70 °C => 2 A)
Solenoid operating voltage	
	AC 230 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 (>70 °C => 2 A)

Mechanical values and environment

Anfahrgeschwindigkeit	max. 20 m/min
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Approach direction

Actuating head left C

Connection type		
	1 x	Plug connector SR6 (6-pin + PE)
Number of door position NO contacts	1	
Number of guard lock monitoring NO contacts	1	
Number of door position positively driven contacts	1	
Number of guard lock monitoring positively driven contacts	1	
Extraction force	30 N	
Actuation frequency	max. 1200 1/h	
Actuating force	35 N	
Lid	black	
Installation orientation	any	
Insertion depth	52 mm	
Storage temperature	-25 ... 80 °C	
Mechanical life	1 x 10 ⁶	
Retention force	10 N	
Switching principle	Slow-action switching contact	
Degree of protection	IP65	
Ambient temperature	-25 ... 80 °C	
Material		
	Contact	Silver alloy, gold flashed
	Housing	Anodized die-cast alloy
Locking force $F_{\max}$	2000 N	
Locking force F_{Zh}	1500 N	
Guard locking principle	Closed-circuit current principle	

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

	B10_D	Mission time
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Monitoring of the guard position	3×10^6	20 y
	Important! Values valid at DC-13 100 mA/24V	
Guard lock monitoring	3×10^6	20 y
	Important! Values valid at DC-13 100 mA/24V	

	PL	Maximum SIL	Category	Mission time
Control of guard locking	Depending on external control of guard locking			20 y

In combination with actuator ACTUATOR-Z-G

Overtravel	4 mm
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In combination with actuator ACTUATOR-Z-GN

Overtravel	16 mm
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Downloads

All documentation for this material can be found on our website:

<https://www.euchner-usa.com/en-us/a/046504/?#downloads-tab>

Ordering data

Ordernumber	046504
Item designation	TZ1LE220SR6
Gross weight	1,25kg
Customs tariff number	85365019000
ECLASS 11.0	27-27-26-03 Safety switch with guard control

Accessories

Actuator

Actuator for safety switches NZ.VZ, NZ.VZ.VS and TZ



016849

BETAETIGER-Z-G

Two stainless-steel safety screws per actuator



074411

BETAETIGER-Z-G/V25

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



072251

BETAETIGER-Z-GN

Two stainless-steel safety screws per actuator



097436

BETAETIGER-Z-GME

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

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



048850

RADIUSBETAETIGER-Z-U

Two stainless-steel safety screws per actuator

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



024298

RADIUSBETAETIGER-Z-L

Two stainless-steel safety screws per actuator



100407

RADIUSBETAETIGER-Z-L-C2194

Two stainless-steel safety screws per actuator
Smaller door radii

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



024299

RADIUSBETAETIGER-Z-R

Two stainless-steel safety screws per actuator



100406

RADIUSBETAETIGER-Z-R-C2194

Two stainless-steel safety screws per actuator
Smaller door radii

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



057950

RADIUSBETAETIGER-Z-O

Two stainless-steel safety screws per actuator

Connection material

Connecting cable with plug connector SR6, 10 m



077633

C-M26F07-07X1,0PU10,0-MA-077633

Female plug SR6, 6-pin + PE
Straight plug connector
PUR cable
Cable length 10 m
With flying lead

Connecting cable with plug connector SR6, 10 m, angled



077639

C-R22F07-07X1,0PU10,0-MA-077639

Female plug SR6, 6-pin + PE
Angled plug connector
PUR cable
Cable length 10 m
With flying lead

Connecting cable with plug connector SR6, 15 m



077634

C-M26F07-07X1,0PU15,0-MA-077634

Female plug SR6, 6-pin + PE
Straight plug connector
PUR cable
Cable length 15 m
With flying lead

Connecting cable with plug connector SR6, 15 m, angled



077640

C-R22F07-07X1,0PU15,0-MA-077640

Female plug SR6, 6-pin + PE
Angled plug connector
PUR cable
Cable length 15 m
With flying lead

Connecting cable with plug connector SR6, 20 m



098128

C-M26F07-07X1,0PU20,0-MA-098128

Female plug SR6, 6-pin + PE
Straight plug connector
PUR cable
Cable length 20 m
With flying lead

Connecting cable with plug connector SR6, 5 m



077632

C-M26F07-07X1,0PU05,0-MA-077632

Female plug SR6, 6-pin + PE
Straight plug connector
PUR cable
Cable length 5 m
With flying lead

Connecting cable with plug connector SR6, 5 m, angled

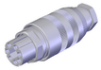


077638

C-R22F07-07X1,0PU05,0-MA-077638

Female plug SR6, 6-pin + PE
Angled plug connector
PUR cable
Cable length 5 m
With flying lead

Plug connector SR6



013176
SR6EF

Crimp contacts
Coding shells



024999
SR6WFP11R

Socket crimp contacts
6-pin+PE
Contact carrier can be adjusted in 7 outlet directions

087180
SR6AM2-M20

Crimp contacts
Male socket

Function expansion

Lockout bar NZ.VZ/TZ, 3 holes



046730
SPERREINSATZ-Z-046730

Prevents unintentional closing of the door
Can be secured with padlocks



091305
SPERREINSATZ MIT KETTE

Prevents unintentional closing of the door
Can be secured with padlocks

Protective plate NZ.VZ/TZ

059136
SCHUTZBLECH NZ/TZ

Metal bolt

Bolt BTC-TZ00... without escape release for safety switch TZ



106280
BTC-TZ00-C-TH-00-X

Aluminum bolt
For doors hinged on the left
Can be locked in open position with padlocks
Actuator included

Bolt TZ-C... for safety switch TZ



117194
RIEGEL TZ-C-NIRO-C2392

Stainless steel bolt
For doors hinged on the left
Can be locked in open position with padlocks
Actuator and switch bracket included

Bolt for safety switches NZ.VZ, NZ.VZ.VS and TZ



028357
RIEGEL NZ/TZ-S1

Bolt for safety switches NZ.VZ, NZ.VZ.VS and TZ
Aluminum bolt
For doors hinged on the left or right.
Spring catch in open position
Suitable for a door gap of approx. 15 mm



028359

RIEGEL NZ/TZ-S2

Bolt for safety switches NZ.VZ, NZ.VZ.VS and TZ
Aluminum bolt
For doors hinged on the left or right.
Spring catch in open position
Suitable for a door gap of approx. 15 mm

Bolts for safety switches series TZ



057737

RIEGEL TZ-C

Bolts for safety switches series TZ
Steel bolt
For doors hinged on the left
Suitable for a door gap of approx. 15 mm



079799

RIEGEL TZ-C-NIRO

Stainless steel bolt
For doors hinged on the left
Suitable for a door gap of approx. 15 mm



096058

RIEGEL TZ-C-NIRO-C2101

Stainless steel bolt
For doors hinged on the left
Can be locked in open position with padlocks
Actuator and switch bracket included
Bolts for safety switches series TZ
Suitable for a door gap of approx. 15 mm

Mounting accessories

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



093457

EMP-B1

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



093458

EMP-B2

Mounting plates EMP-SA for safety switch TZ



094401

EMP-SA

For vertical and horizontal mounting of safety switch TZ

Safety screws M5 x 10

073455

M5X10-NIRO/V100

Safety screws M5 x 10
Packaging unit 100 pieces

Safety screws M5 x 16

073456

M5X16/V100

Safety screws M5 x 16
Packaging unit 100 pieces

Safety screws for actuators, M5 x 25

073457

M5X25/V100

Safety screws M5 x 25

Packaging unit 100 pieces

Spare parts

Lead seal kit

048257

PLOMBENSATZ TZ