

## ITEM 054781 TZ1RE024SR6-C1662

Description	Technical data	Accessories	Downloads
-------------	----------------	-------------	-----------



### Features

- › Without auxiliary release
- › Two LED indicators, red and green
- › Plug connector for switch connection
- › Plug connector for enabling switch
- › Actuating head fitted right

### Solenoid operating voltage and LED function display

- › 24 V AC/DC -15%, +10%

### Guard locking type

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

### Switching element

- SK** For monitoring the door/actuator position
- ÜK** For monitoring the guard locking (built-in solenoid)
- 528H** Slow-action switching contact 1 NC ⊕ + 1 NO

## Approvals



## Mechanical values and environment

Housing material	Anodized die-cast alloy
Weight	
	Net 1,2 kg
Ambient temperature	-25 ... 80 °C
Degree of protection	IP65
Mechanical life	1 x 10 <sup>6</sup>
Contact material	Silver alloy, gold flashed
Switching principle	Slow-action switching contact
Installation position	Any
Number of door position positively driven contacts	1
Number of door position NO contacts	1
Number of guard lock monitoring positively driven contacts	1
Number of guard lock monitoring NO contacts	1
Connection	
	1 x Plug connector SR6 [1]
Approach speed	max.20 m/min
Actuation frequency	1200 1/h
Guard locking principle	Closed-circuit current principle
Locking force F <sub>max</sub>	2000 N
Locking force F <sub>Zh</sub>	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 <sub>th</sub>	4 A [2]
Utilization category according to EN 60947-5-1	
	AC-15 4A 230V [3]
	DC-13 4A 24V [4]
Solenoid operating voltage	
	AC/DC 24 V -15% ... +10%

Short circuit protection according to IEC 60269-1	(Fuse) 4A gG [5]
Rated insulation voltage U <sub>i</sub>	250 V
Rated impulse withstand voltage U <sub>imp</sub>	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 %
LED indicator	Operating voltage corresponds to the solenoid voltage [6]

### Miscellaneous

C number	C1662	Without mechanical release with connection for enabling switch (BD4)
----------	-------	--

### Reliability values acc. to EN ISO 13849-1

	<b>Control of the guard locking</b>
Category	Depending on external control of guard locking [7]
Performance Level	Depending on external control of guard locking [8]
PFH <sub>D</sub>	Depending on external control of guard locking [9]
	<b>Monitoring of guard locking and the safety guard position</b>
B10 <sub>D</sub>	3 x 10 <sup>6</sup>

### in combination with Actuator BETAETIGER-Z-G

#### Mechanical values and environment

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

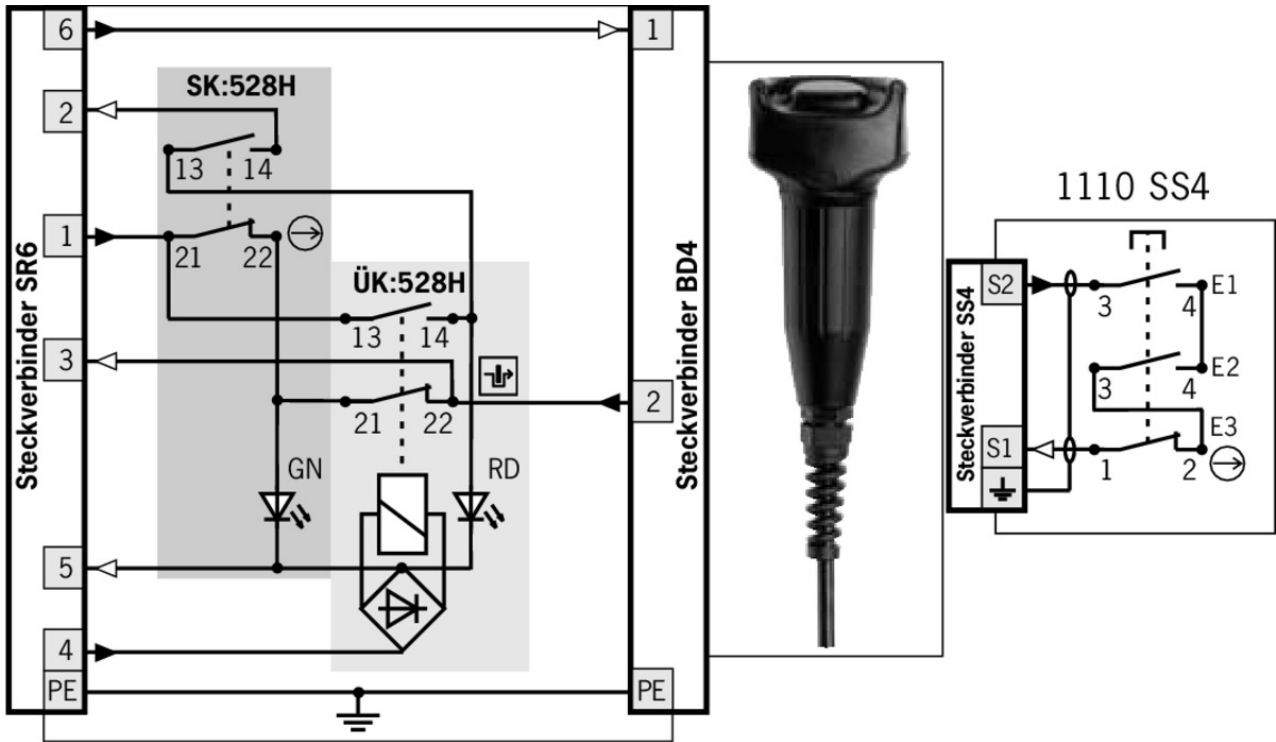
### in combination with Actuator BETAETIGER-Z-GN

#### Mechanical values and environment

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



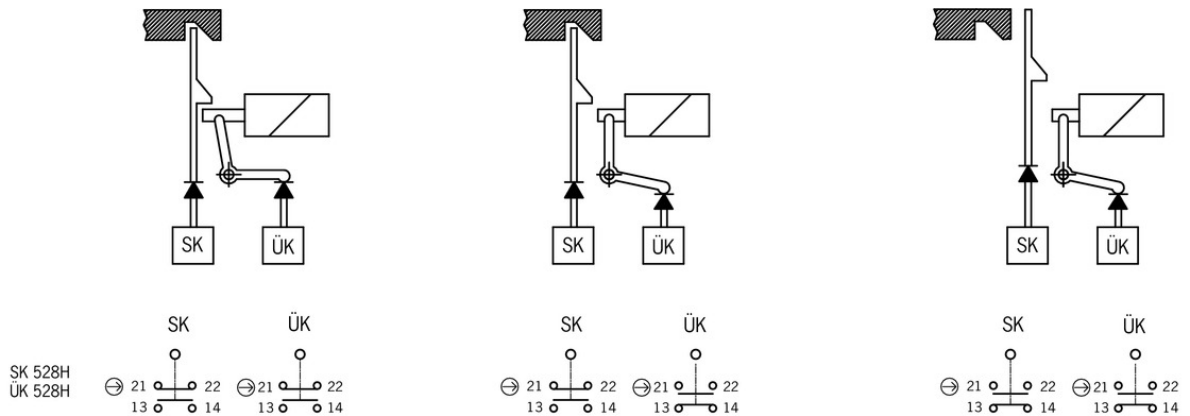
**SK: 528H / ÜK: 528H**



**Legende**

- Enabling switch ZSA2B2G..C1662 with plug SS4
- Solenoid monitoring
- Door monitoring

**Switching functions**



**Connection material**

- Plug connector SR6

**024999** SR6WFPG11R



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

#### **013178** SR6K

- ✓ Features
    - › Coding for plug connector SR6
    - › Coding shells
- 

#### **087180** SR6AM2-M20

- ✓ Features
    - › Crimp contacts
    - › Male socket
- 



#### **013176** SR6EF

- ✓ Features
    - › Crimp contacts
    - › Coding shells
- 

- ✓ Connection cable with plug connector SR6, 5m, angled



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

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

- ✓ Connection cable with plug connector SR6, 10m, angled



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

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

- ✓ Connection cable with plug connector SR6, 15m, angled



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

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

- ✓ Connection cable with plug connector SR6, 10m



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

✓ Features

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

- ✓ Connection cable with plug connector SR6, 15m



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

✓ Features

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

- ✓ Connection cable with plug connector SR6, 20m



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

✓ Features

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

- ✓ Connection cable with plug connector SR6, 5m



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

✓ Features

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

## Function expansion

- ✓ 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

---

▼ Protective plate NZ.VZ/TZ

**059136** SCHUTZBLECH NZ/TZ

---

▼ Lockout mechanism NZ.VZ/TZ, 5 holes

**086538** SPERREINSATZ-Z-086538

▼ 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

---

## 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

---

## Bolt

▼ Bolt TZ-A... for safety switches TZ



**096057** RIEGEL TZ-A-NIRO-C2101

▼ Features

- › Stainless steel bolt

- › For doors hinged on the right
- › Can be locked in open position with padlocks
- › Actuator and switch bracket included



#### **079798** RIEGEL TZ-A-NIRO

##### ✓ Features

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



#### **057736** RIEGEL TZ-A

##### ✓ Features

- › Steel bolt
- › For doors hinged on the right
- › Can be locked in open position with padlocks
- › Actuator and switch bracket included



#### **117193** RIEGEL TZ-A-NIRO-C2392

##### ✓ Features

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

#### ✓ 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 BTC-TZ00... without escape release for safety switch TZ



#### **106278** BTC-TZ00-A-TH-00-X

##### ✓ Features

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

#### ✓ Bolts NZ/TZ-S1 and NZ/TZ-S2 for safety switches NZ.VZ, NZ.VZ.VS and TZ



#### **028357** RIEGEL NZ/TZ-S1

##### ✓ Features

- › Aluminum bolt
- › For doors hinged on the left or right. Cone grip bottom.
- › Spring catch in open position

- › Can be locked in open position with padlocks
- › Actuator included



#### **028359** RIEGEL NZ/TZ-S2

##### ✓ Features

- › Aluminum bolt
- › For doors hinged on the left or right. Cone grip top.
- › Spring catch in open position
- › Can be locked in open position with padlocks
- › 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

- ✓ 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

- ✓ 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

## Actuator

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



**074411** BETAETIGER-Z-G/V25

✓ Features

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



**097436** BETAETIGER-Z-GME

✓ Features

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



**016849** BETAETIGER-Z-G

✓ Features

- › Two stainless safety screws per actuator



**072251** BETAETIGER-Z-GN

✓ Features

- › Two stainless safety screws per 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 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

▼ 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 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

## 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

## 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