

ITEM 089488 NZ1VZ-528E3VSM04L220-M

Description	Technical data	Accessories	Downloads
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Features

- › Housing according to EN 50041
- › Cable entry M20 x 1.5
- › LED indicator

Approach direction



- › Figure
Horizontal
Can be adjusted in 90° steps

LED function display

A function display is available for the following voltage range:

- › AC 110 V±15% red

Guard locking type

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

Switching element

528H Slow-action switching contact 1 NC \oplus + 1 NO

Approvals



Mechanical values and environment

Housing material	Anodized die-cast alloy
Weight	Net 0,7 kg
Ambient temperature	-25 ... 80 °C
Degree of protection	IP65
Mechanical life	2×10^6
Contact material	Silver alloy, gold flashed
Switching principle	Slow-action switching contact
Solenoid alignment	3
Installation position	Any
Number of door position positively driven contacts	1
Number of door position NO contacts	1
Connection	1 x M20 x 1.5
Approach speed	max.20 m/min
Actuation frequency	1200 1/h
Guard locking principle	Closed-circuit current principle
Locking force F_{max}	2000 N
Locking force F_{Zh}	1500 N
Retention force	35 N
Extraction force	40 N
Actuating force	45 N
Insertion depth	52 mm

Electrical connection ratings

Rated thermal current I_{th}	4 A
Utilization category according to EN 60947-5-1	

	AC-15	4A 230V
	DC-13	4A 24V
Solenoid operating voltage	DC	24 V -15 ... 10
Short circuit protection according to IEC 60269-1	(Fuse)	4A gG
Rated insulation voltage U _i	AC/DC	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
Connection cross-section		0,34 ... 0,75 mm ²
Display module	AC	230 V Red

Reliability values acc. to EN ISO 13849-1

	Control of the guard locking
Category	Depending on external control of guard locking
Performance Level	Depending on external control of guard locking
PFH _D	Depending on external control of guard locking
	Monitoring of the position of the safety guard
B10 _D	4,5 x 10 ⁶

in combination with Actuator BETAETIGER-Z-G

Mechanical values and environment

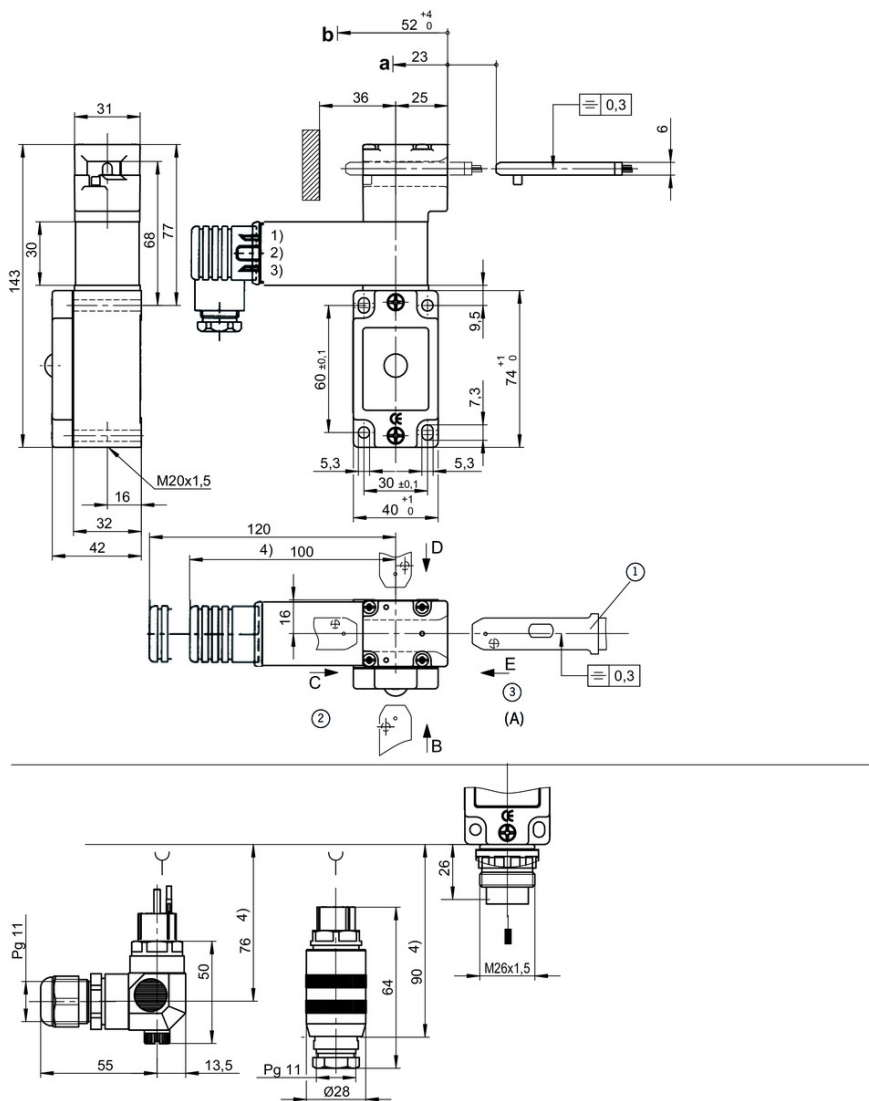
Overtravel	4 mm
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in combination with Actuator BETAETIGER-Z-GN

Mechanical values and environment

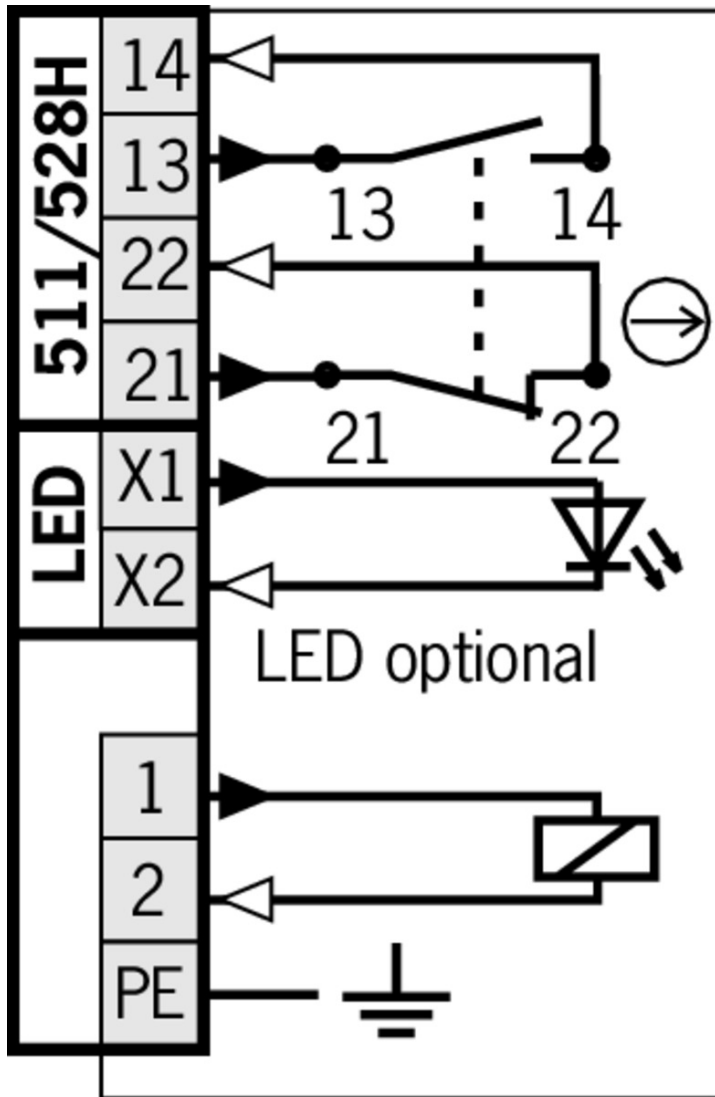
Overtravel	16 mm
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Dimension drawing

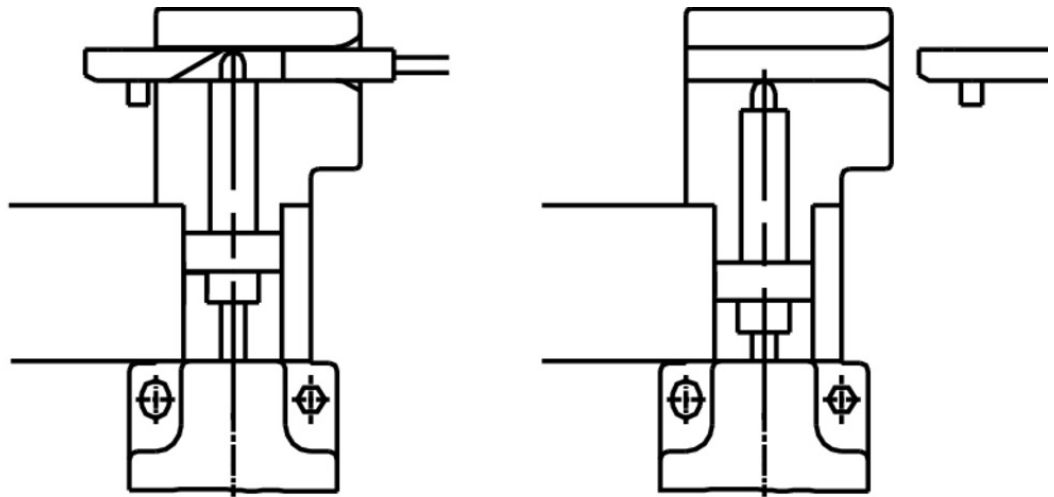


Legende

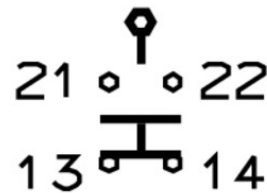
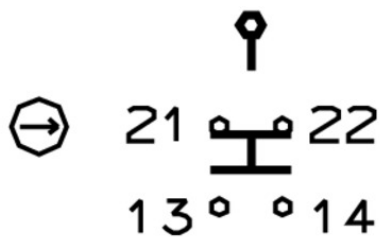
- a* Travel without operation: actuator is in the guide slot, but function is not triggered.
- b* Switching operation completed: actuator must be inserted to this point to ensure reliable switching. The actuator must be withdrawn at least to point *a* for switching off.
- 1* Do not use as an end stop. Limit overtravel separately.
- 2* Actuating direction can be changed
- 3* Standard
- 1)* = Solenoid
- 2)* DC solenoid
- 3)* DC solenoid
- 4)* Inserted



Switching functions



511
528



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



024298 RADIUSBETAETIGER-Z-L

▼ Features

- › Two stainless safety screws per actuator



074413 RADIUSBETAETIGER-Z-L/V25

▼ Features

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

- ▼ 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

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



016849 BETAETIGER-Z-G

✓ Features

- › Two stainless safety screws per actuator



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



072251 BETAETIGER-Z-GN

✓ Features

- › Two stainless safety screws per actuator

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



024299 RADIUSBETAETIGER-Z-R

✓ Features

- › Two stainless safety screws per actuator



074412 RADIUSBETAETIGER-Z-R/V25

✓ Features

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



100406 RADIUSBETAETIGER-Z-R-C2194

✓ Features

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

✓ 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
-

Bolt

- ✓ Bolt NZ-C for safety switches NZ.VZ and NZ.VZ.VS



057735 RIEGEL NZ-C

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

- ✓ Bolt NZ-C... for safety switches NZ.VZ and NZ.VZ.VS



078456 RIEGEL NZ-CR2

- ✓ Features
 - › Steel bolt
 - › For doors hinged on the left
 - › Detent knob in open position
 - › Detent knob mechanism in closed position
 - › Can be locked in open position with padlocks
 - › Actuator and switch bracket included
-



083892 RIEGEL NZ-CB

- ✓ Features
 - › Steel bolt
 - › For doors hinged on the left
 - › Ball detent mechanism in closed position
 - › Can be locked in open position with padlocks
 - › Actuator and switch bracket included
-

- ✓ Bolt NZ-A for safety switches NZ.VZ and NZ.VZ.VS



057734 RIEGEL NZ-A

- ✓ Features
 - › Steel bolt
 - › For doors hinged on the right
 - › Can be locked in open position with padlocks
 - › Actuator and switch bracket included
 - › Bolt is not allowed to be used in conjunction with an escape release.
-

- ✓ Bolt NZ-A... for safety switches NZ.VZ and NZ.VZ.VS



083890 RIEGEL NZ-AB

- ✓ Features
 - › Steel bolt
 - › For doors hinged on the right
 - › Ball detent mechanism in closed position

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



078455 RIEGEL NZ-AR2

✓ Features

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

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



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



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

✓ 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



079785 RIEGEL NZ/TZ-S1/CF

✓ Features

- › Aluminum bolt
- › For doors hinged on the left
- › Escape release
- › Spring catch in open position
- › Can be locked in open position with padlocks
- › Actuator included

Function expansion

☑ Lockout mechanism NZ.VZ/TZ, 3 holes



046730 SPERREINSATZ-Z-046730

☑ Features

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



091305 SPERREINSATZ MIT KETTE

☑ Features

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

☑ Lockout mechanism NZ.VZ/TZ, 5 holes

086538 SPERREINSATZ-Z-086538

☑ Features

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

☑ LED function display NZ



029221 NGL060GR



029220 NGL060RT

☑ Protective plate NZ.VZ/TZ

059136 SCHUTZBLECH NZ/TZ

Mounting accessories

☑ Mounting plates EMP-SC for safety switches NM, NP...AS and NZ



085753 EMP-SC

☑ Features

- › For vertical and horizontal mounting of safety switches NM, NP...AS and NZ

☑ 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

Spare parts

▼ Replacement head NZ.VZ

076250 BETAETIGUNGSKOPF NZVZ

Connection material

▼ Cable glands M20x1.5



077683 EKVM20/06



077684 EKVM20/09

▼ Solenoid plug for safety switch NZ.VZ.VS

028345 STECKVERBINDER FUER MAGNETVERRIEG.

▼ Features

› Without rectifier for the connection of DC.

Instructions

▼ Istruzioni di impiego Finecorsa di sicurezza NZ.VZ-...VS

	Doc. no.	Version	Language	Download
Betriebsanleitung Sicherheitsschalter NZ.VZ-...VS	094066	07-08/16		2.2 MB
Manual de instrucciones Interruptor de seguridad NZ.VZ-...VS				
Mode d'emploi Interrupteur de sécurité NZ.VZ-...VS				
Operating Instructions Safety Switch NZ.VZ-...VS				
Istruzioni di impiego Finecorsa di sicurezza NZ.VZ-...VS	094066	07-08/16		0.6 MB
Návod na prevádzku Bezpečnostný spínač NZ.VZ-...VS	094066	07-08/16		0.6 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