

ITEM 074471 NZ2VZ-2131E3VSM04

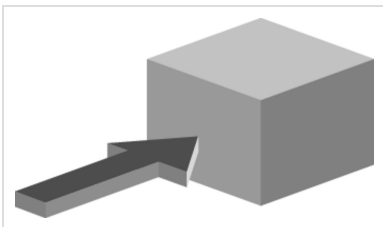
Description	Technical data	Accessories	Downloads
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Features

- › Housing according to EN 50041
- › Plug connector SR11

Approach direction



- › Figure
Horizontal
Can be adjusted in 90° steps

Guard locking type

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

Switching element

2131H Slow-action switching contact 3 NC \ominus + 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 x 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	3
Number of door position NO contacts	1
Connection	1 x Plug connector SR11 [1]
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 [2]
Utilization category according to EN 60947-5-1	AC-15 4A 50V [3] DC-13 4A 24V [4]
Solenoid operating voltage	DC 24 V -15 ... 10

Short circuit protection according to IEC 60269-1	(Fuse)	4A gG [5]
Rated insulation voltage U _i	AC/DC	50 V
Rated impulse withstand voltage U _{imp}		1,5 kV
Switching voltage	Min. at 10mA	12 V
Switching current	Min. at 24V	1 mA

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

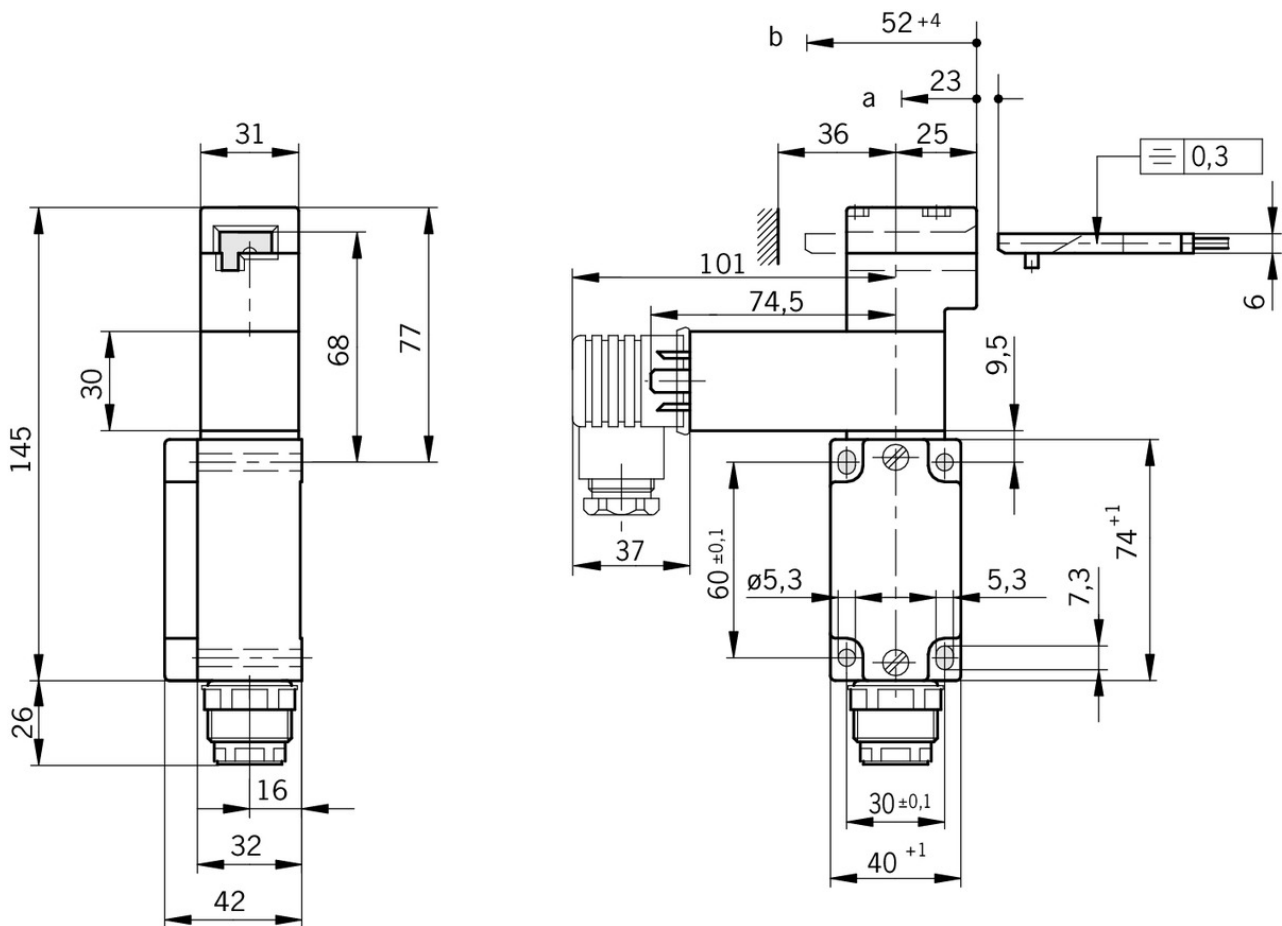
Overtravel	16 mm
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[1] 11-pin + PE

[2, 3, 4] > 70° C => 2 A

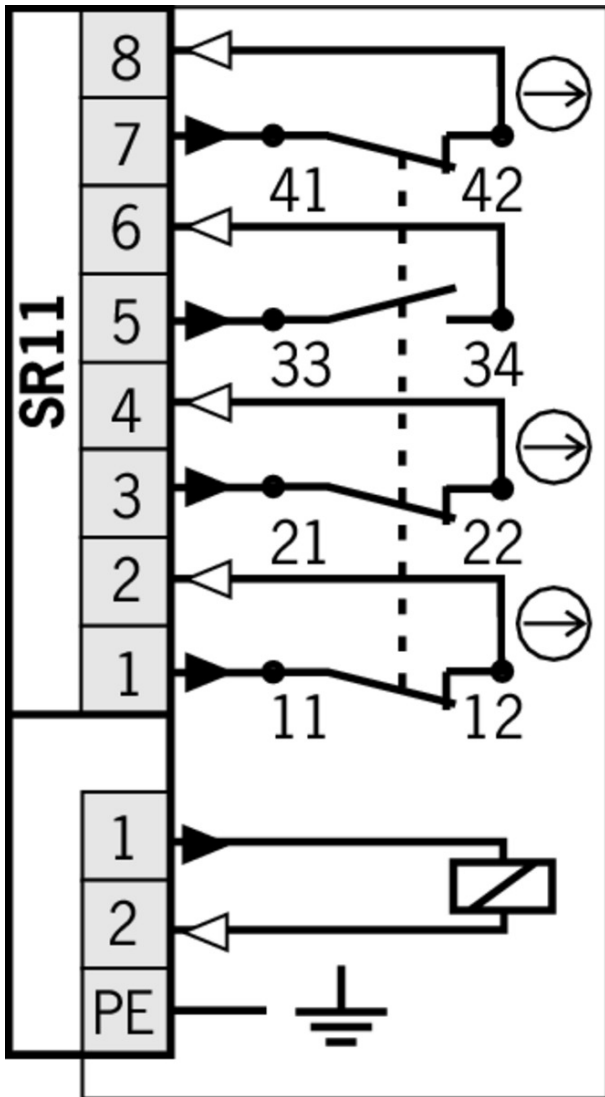
[5] > 70° C => 2 A gG

Dimension drawing

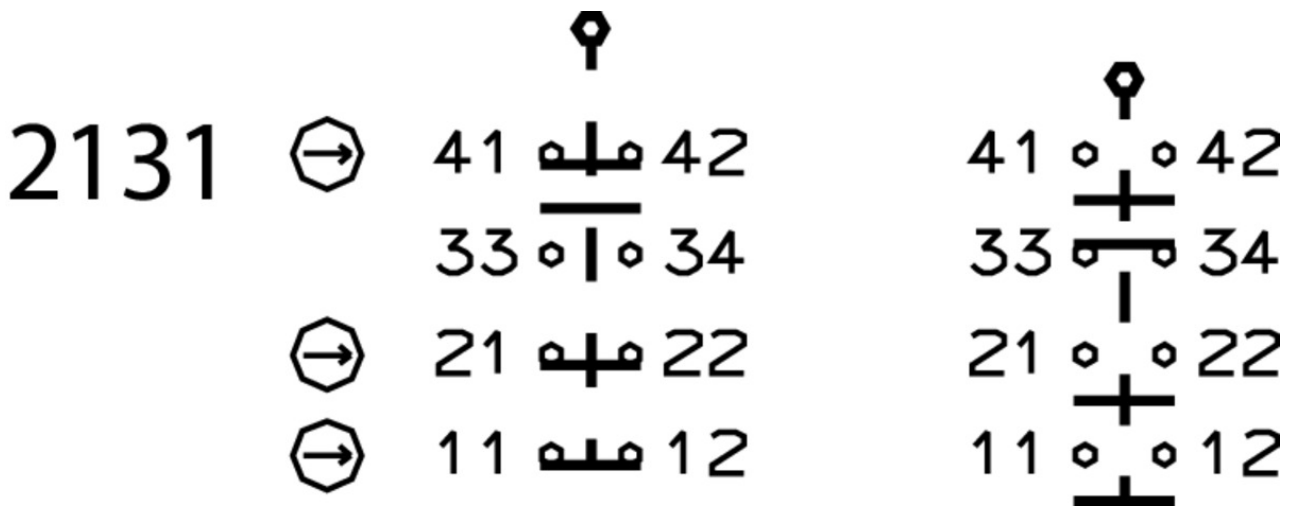


Legende

- 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.



Switching functions



Actuator



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



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



100407 RADIUSBETAETIGER-Z-L-C2194

✓ Features

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

▼ 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
-

Bolt

▼ 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-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-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

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



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



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

▼ 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



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

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

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
-

▼ Protective plate NZ.VZ/TZ

059136 SCHUTZBLECH NZ/TZ

Spare parts

▼ Replacement head NZ.VZ

076250 BETAETIGUNGSKOPF NZVZ

Connection material

▼ Plug connector SR11 for safety switches NZ and TZ

070859 SR11EF

▼ Features

- › Crimp contacts
 - › Cable optional
 - › Coding shells
-

054773 SR11WF

▼ Features

- › Crimp contacts
 - › 90° angled optional
 - › Cable optional
 - › Coding shells
-

091296 SR11AM2-M20

▼ Features

- › Crimp contacts
 - › Cable optional
 - › Coding shells
-

▼ Connection cable with plug connector SR11, 5m



077629 C-M26F12-12X1,00PU05,0-MA-077629

▼ Features

- › Female plug SR11, 11-pin + PE
 - › Straight plug connector
 - › PUR cable
 - › Cable length 5 m
 - › With flying lead
-

▼ Connection cable with plug connector SR11, 5m, angled



077635 C-M26F12-12X1,0PU05,0-MA-077635

▼ Features

- › Female plug SR11, 11-pin + PE
 - › Angled plug connector
 - › PUR cable
 - › Cable length 5 m
 - › With flying lead
-

▼ Connection cable with plug connector SR11, 10m



077630 C-M26F12-12X1,00PU10,0-MA-077630

▼ Features

- › Female plug SR11, 11-pin + PE
 - › Straight plug connector
 - › PUR cable
 - › Cable length 10 m
 - › With flying lead
-

▼ Connection cable with plug connector SR11, 10m, angled



077636 C-M26F12-12X1,0PU10,0-MA-077636

▼ Features

- › Female plug SR11, 11-pin + PE
 - › Angled plug connector
 - › PUR cable
 - › Cable length 10 m
 - › With flying lead
-

▼ Connection cable with plug connector SR11, 15m



077631 C-M26F12-12X1,00PU15,0-MA-077631

▼ Features

- › Female plug SR11, 11-pin + PE
 - › Straight plug connector
 - › PUR cable
 - › Cable length 15 m
 - › With flying lead
-

▼ Connection cable with plug connector SR11, 15m, angled



077637 C-M26F12-12X1,0PU15,0-MA-077637

▼ Features

- › Female plug SR11, 11-pin + PE
- › Angled plug connector
- › PUR cable
- › Cable length 15 m
- › With flying lead

▼ Connection cable with plug connector SR11, 20m



096632 C-M26F12-12X1,0PU20,0-MA-096632

▼ Features

- › Female plug SR11, 11-pin + PE
- › Straight plug connector
- › PUR cable
- › Cable length 20 m
- › With flying lead

▼ Connection cable with plug connector SR11, 25m



094749 C-M26F12-12X1,0PU25,0-MA-094749

▼ Features

- › Female plug SR11, 11-pin + PE
- › Straight plug connector
- › PUR cable
- › Cable length 25 m
- › With flying lead

▼ Solenoid plug for safety switch NZ.VZ.VS

028338 STECKVERBINDER M.GLEICHR.F.MAGNETV.

▼ Features


- › With rectifier for the connection of AC 110 V - AC 230 V.













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

Catalogs

- 
 Sicherheitsschalter mit Metallgehäuse Safety Switches with Metal Housing Bezpečnostní spínače s kovovým pouzdem 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 pouzdem	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