

ITEM 090143 NZ2VZ-538E

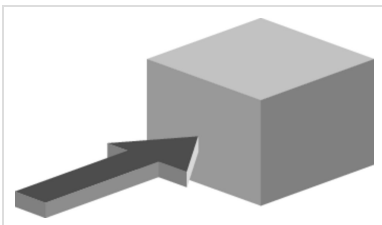
Description	Technical data	Accessories	Downloads
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**Features**

- › Housing according to EN 50041
- › Plug connector SR6

**Approach direction**



- › Figure  
Horizontal  
Can be adjusted in 90° steps

**Switching element**

**538H** Slow-action switching contact 2 NC ⊖

## Approvals



### Mechanical values and environment

Housing material	Anodized die-cast alloy
Weight	
	Net 0,3 kg
Ambient temperature	-25 ... 80 °C
Degree of protection	IP65
Mechanical life	2 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	2
Connection	
	1 x Plug connector SR6 [1]
Approach speed	max.20 m/min
Actuation frequency	1200 1/h
Retention force	8 N
Extraction force	35 N
Actuating force	35 N
Insertion depth	52 mm

### 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]
Short circuit protection according to IEC 60269-1	
	(Fuse) 4A gG [5]
Rated insulation voltage U <sub>i</sub>	
	AC/DC 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

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

	<b>Monitoring of the safety guard position</b>
B10 <sub>D</sub>	4,5 x 10 <sup>6</sup>

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**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**

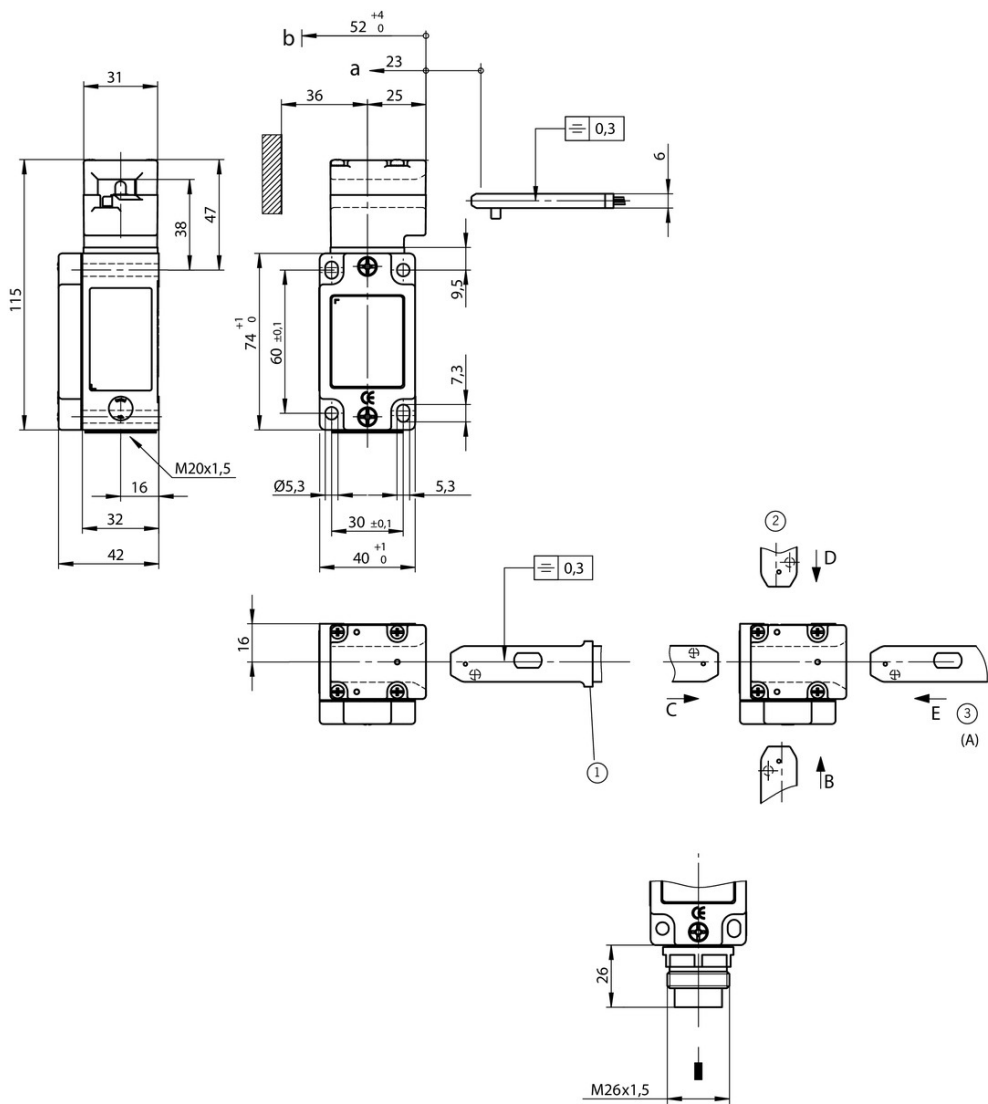
Overtravel	16 mm
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[1] 6-pin + PE

[2, 3, 4] > 70° C => 2 A

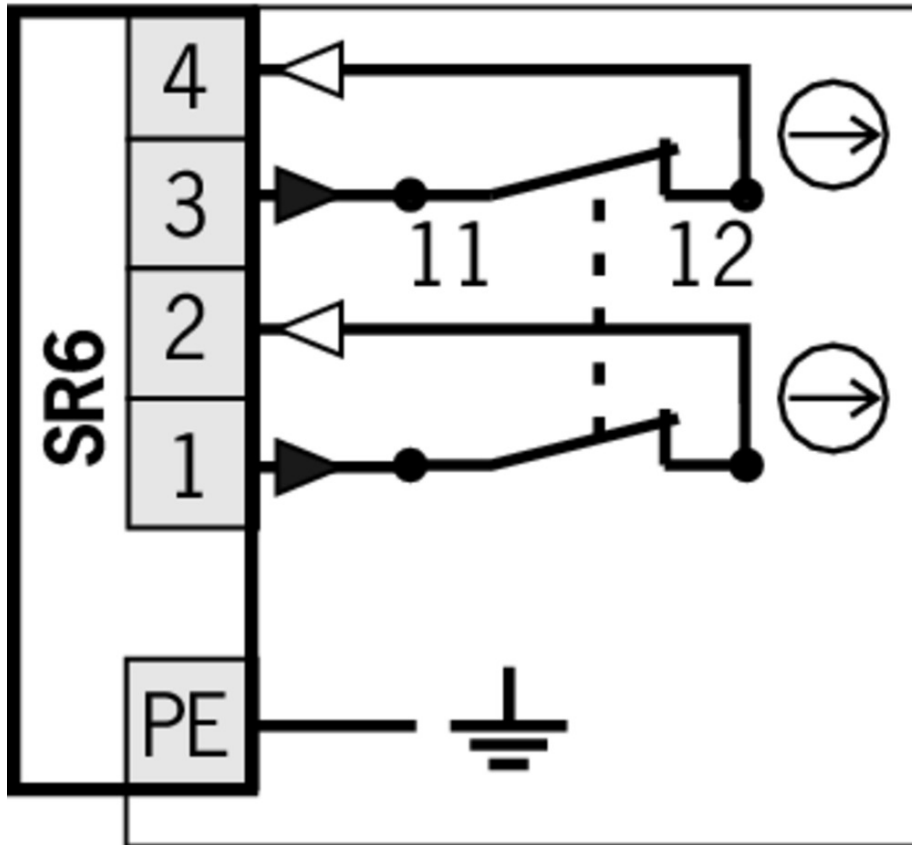
[5] > 70° C => 2 A gG

## Dimension drawing

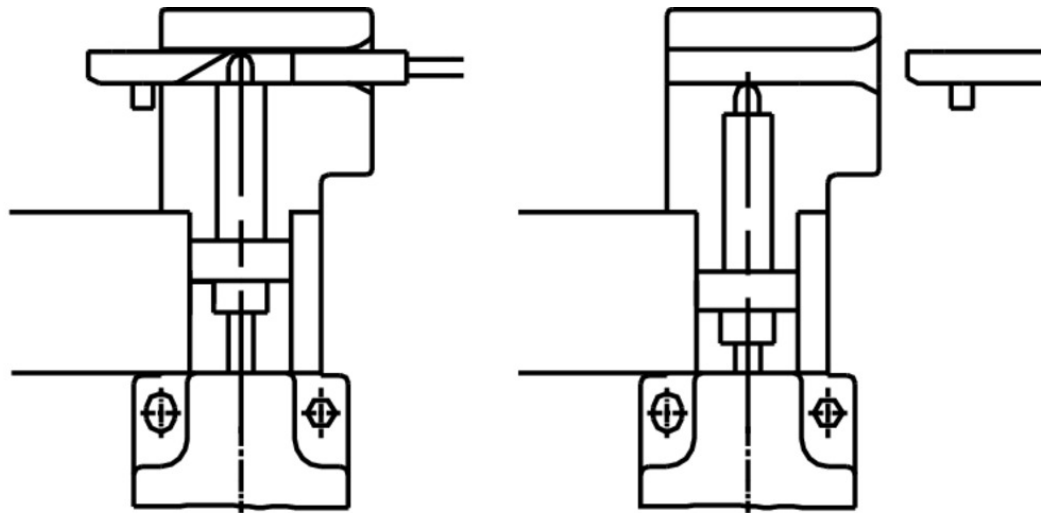


## Legende

- 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.
- 1 Do not use as an end stop. Limit overtravel separately.
- 2 Actuating direction can be changed
- 3 Standard



## Switching functions



## Bolt

- ✓ Bolt BTC-NZVZ... with escape release for safety switches NZ.VZ and NZ.VZ.VS



### 104399 BTC-NZVZ-S-TH-01-F

#### ✓ Features

- › Die-cast aluminum bolt
- › For left or right hinged doors
- › Lever for escape release from the danger area
- › Can be locked in open position with padlocks
- › Actuator included

- ✓ Bolt BTC-NZVZ... without escape release for safety switches NZ.VZ and NZ.VZ.VS



### 104398 BTC-NZVZ-S-TH-00-X

#### ✓ Features

- › Die-cast aluminum bolt
- › For left or right hinged doors
- › 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



### 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



**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

✓ 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

✓ Bolt NZ-CF with escape release for safety switches NZ.VZ



**078452** RIEGEL NZ-CF

✓ Features

- › Steel bolt
- › For doors hinged on the left
- › Lever for escape release from the danger zone

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

▼ Bolt NZ-GFK for safety switch NZ.VZ



**096617** RIEGEL NZ-GFK

▼ Features

- › Fiber glass reinforced plastic bolt
  - › For doors hinged on the left or right
  - › Can be locked in open position with padlocks
  - › Actuator included
- 

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



**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
- 



**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
- 

▼ 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
-



▼ Bolt NZ-AF with escape release for safety switches NZ.VZ



**078451** RIEGEL NZ-AF

▼ Features

- › Steel bolt
- › For doors hinged on the right
- › Lever for escape release from the danger zone
- › Detent knob in open 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-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

## Function expansion

▼ LED function display NZ



**029221** NGL060GR



**029220** NGL060RT

▼ 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

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## Mounting accessories

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



**093457** EMP-B1

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



**093458** EMP-B2

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- ▼ 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
- 

- ▼ Safety screws M4 x 14

**074063** M4X14/V100

- ▼ Features

- › Safety screws M4 x 14
  - › Packaging unit 100 pieces
- 

- ▼ 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
- 

## Spare parts

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▼ Replacement head NZ.VZ

**076250** BETAETIGUNGSKOPF NZVZ

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## Actuator

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▼ 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 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 right for safety switches NZ.VZ, NZ.VZ.VS and TZ



**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



**100406** RADIUSBETAETIGER-Z-R-C2194

▼ Features

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

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



**074415** RADIUSBETAETIGER-Z-O/V25

▼ Features

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



**057950** RADIUSBETAETIGER-Z-O

▼ Features

- › Two stainless safety screws per actuator

## Connection material

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### ▼ Plug connector SR6



#### **013176** SR6EF

##### ▼ Features

- › Crimp contacts
- › Coding shells



#### **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

### ▼ 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

### ▼ 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, 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
- 













## Instructions

▼ Käyttöohje Turvakytkimet NZ.VZ

Betriebsanleitung Sicherheitsschalter NZ.VZ Manual de instrucciones Interruptores de seguridad NZ.VZ Mode d'emploi Interrupteur de sécurité NZ.VZ Operating Instructions Safety Switch NZ.VZ	2094060	08-06/17	   	 1.6 MB
Käyttöohje Turvakytkimet NZ.VZ	2094060	08-06/17		 0.4 MB
Istruzioni di impiego Finecorsa di sicurezza NZ.VZ	2094060	08-06/17		 0.5 MB
Instrukcja obsługi Wyłącznik bezpieczeństwa NZ.VZ	2094060	08-06/17		 0.5 MB
Инструкция по эксплуатации Предохранительный выключатель NZ.VZ	2094060	08-06/17		 0.6 MB
Návod na prevádzku Bezpečnostný spínač NZ.VZ	2094060	08-06/17		 0.5 MB
Instruktionsbok Säkerhetsbrytare NZ.VZ	2094060	08-06/17		 0.5 MB

## Catalogs

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