

ITEM 090742 NZ2VZ-538ESEM4AS1

Description	Technical data	Accessories	Downloads
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Features

- › Housing according to EN 50041
- › Plug connector M12
- › LED indicator

AS-Interface inputs

D0, D1 Positively driven NC contact 1
D2, D3 Positively driven NC contact 2
Evaluation is performed via a safety monitor.

AS-Interface outputs

D1 Red LED
D2 Green LED

LED function display

- › The Power LED indicates the operating voltage on the bus.
- › The Fault LED indicates if a fault has been detected on the AS-Interface bus.
- › The green and the red LEDs can be controlled as required by the control

system via the bus using bits D1 and D2.

Approvals



Mechanical values and environment

Housing material	Anodized die-cast alloy
Weight	Net 1,2 kg
Ambient temperature	-25 ... 80 °C
Degree of protection	IP67
Mechanical life	2 x 10 ⁶
Contact material	Silver alloy, gold flashed
Switching principle	Slow-action switching contact
Installation position	Any
Number of door position positively driven contacts	
According to As-i Safety at Work	2 D0,D1,D2,D3 [1]
Connection	
	1 x Plug connector M12 [2]
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

ASi voltage	22,5 ... 30 V 31,6 V
ASi operating current	max.45 mA
ASi slave type	
According to ASI specification 2.1	EA code: 7
According to ASI specification 2.1	ID code: B
ASi data in	
According to ASI safety at work	D0,D1,D2,D3 [3]
ASi data out	
LED red	D1 [4]
LED green	D2 [5]
ASi LED	
LED green	Power [6]

LED red	Fault [7]
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Reliability values acc. to EN ISO 13849-1

B10 _D	4,5 x 10 ⁶
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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] 1 = Door closed

[2] 4-pin

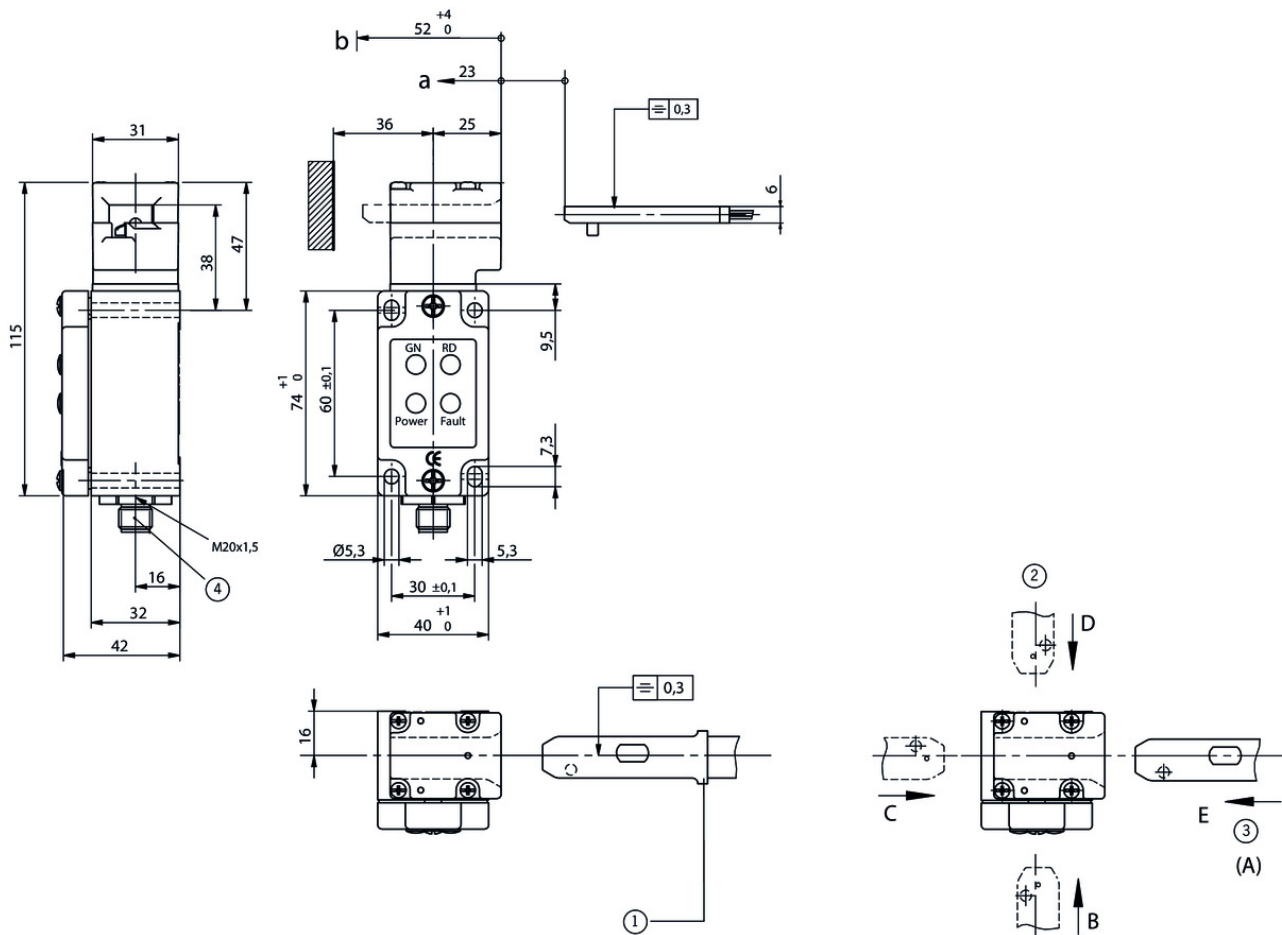
[3] See positively driven NC contact

[4, 5] 1 = LED on

[6] ASI voltage is present

[7] Offline phase or address 0

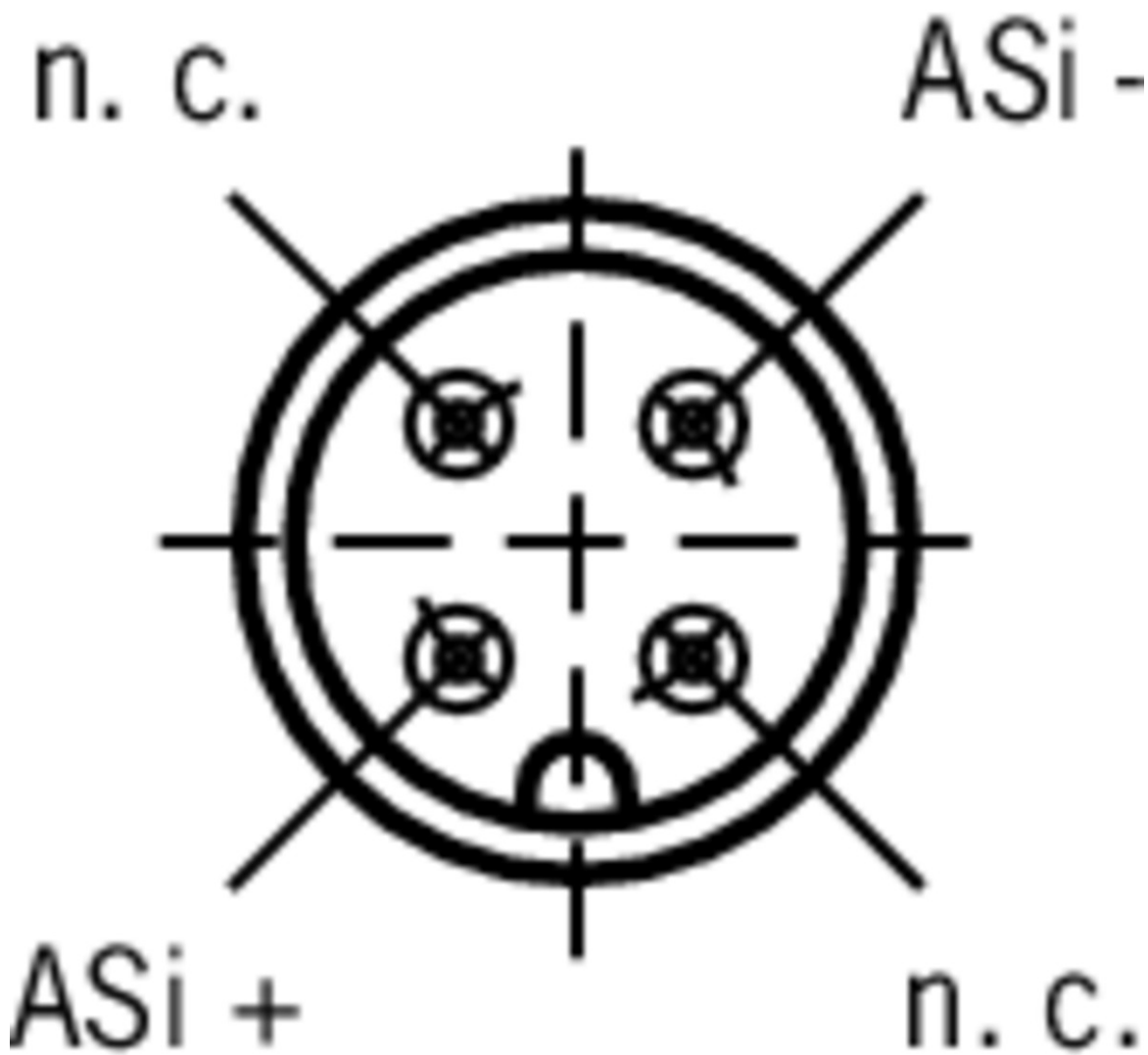
Dimension drawing



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
- 4 Plug coding not adjustable. Only suitable for straight plug connectors.

Connector assignment



Legende

View of connection side

Actuator

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



072251 BETAETIGER-Z-GN

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



016849 BETAETIGER-Z-G

✓ 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
-

▼ 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 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

-
- ✓ 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

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- ✓ 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-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
-

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

Mounting accessories

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



093457 EMP-B1

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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

- ▼ Replacement head NZ.VZ

Connection material

- Bus coupling module with plug connector M12, 5-pin



105756 BCM-A-P2-SEM4-1

Features

- › Conversion from M12 to ribbon cable
- › Very compact design
- › Easy handling

Instructions

- Betriebsanleitung Sicherheitsschalter NZ.VZ..AS1

	Doc. no.	Version	Language	Download
Betriebsanleitung Sicherheitsschalter NZ.VZ..AS1 Operating Instructions Safety Switches NZ.VZ..AS1	090766	05-08/15		0.5 MB
Instrukcja obsługi wyłącznika bezpieczeństwa NZ.VZ..AS1	090766	05-08/15		0.2 MB
Инструкция по эксплуатации предохранительных выключателей NZ.VZ..AS1	090766	05-08/15		0.3 MB

Catalogs












- Sicherheitsschalter mit AS-Interface Safety Switches with AS-Interface Interrupteurs de sécurité avec AS-Interface

	Doc. no.	Version	Language	Download
Sicherheitsschalter mit AS-Interface	092164	11-04/17		2.3 MB
Interrupteurs de sécurité avec AS-Interface	112564	11-04/17		2.3 MB
Safety Switches with AS-Interface	092332	11-04/17		2.3 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	2077153	25-02/17		 0.5 MB
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				

CAD data

CAD data for this item on TraceParts