ITEM 106648 STP3A-4141A024SEM4AS3

Description	Technical data	Accessories	Downloads

Features

- Power supply for the guard locking solenoid from AS-i bus
- Actuating head made of metal
- Auxiliary release on the front
- According to AS-Interface specification 3.1

Guard locking type

STP3 Closed-circuit current principle, guard locking by spring force. Release by control of AS-i output 0.

Control of the guard locking solenoid

The guard locking solenoid is controlled by the control system via AS-Interface bus bit D0. It is only supplied from the AS-i bus; an additional supply of auxiliary power is not necessary. The current consumption with solenoid switched on is 400 mA.

AS-Interface inputs

D0, D1 Door monitoring contact SK
D2, D3 Solenoid monitoring contact ÜK

Evaluation is performed via a safety monitor.

AS-Interface outputs

D0 Guard locking solenoid
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.

Auxiliary release

Is used for releasing the guard locking with the aid of a tool. To protect against tampering, the auxiliary release is sealed with sealing lacquer.

Approvals

EAC

Mechanical values and environment

Housing material	Reinforced thermoplastic
Weight	
Net	0,5 kg
Ambient temperature	-20 ... 55 °C
Degree of protection	IP67
Mechanical life	1×10^{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	1 D0,D1 [1]
Number of guard lock monitoring positively driven contacts	
According to As-i Safety at Work	1 D2,D3 [2]
Connection	
1 x	Plug connector M12 [3]
Approach speed	
max.	20 m/min
Actuation frequency	1200 1/h

Guard locking principle	Closed-circuit current principle
Locking force F_{max}	2500 N
Locking force F_{Zh}	2000 N
Retention force	20 N
Extraction force	30 N
Actuating force	35 N

Electrical connection ratings

ASi voltage	22,5 … 30 V 31,6 V
ASi operating current	Incl. solenoid currentmax.400 mA
Solenoid duty cycle	100 %
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 [4]
ASi data out	
Guard locking solenoid	D0 [5]
LED red	D1 [6]
LED green	D2 [7]
ASi LED	
LED green	Power [8]
LED red	Fault [9]

Reliability values acc. to EN ISO 13849-1

$B10_D$	5×10^6

in combination withActuator BETAETIGER-S-GT-SN

Mechanical values and environment

Overtravel		
	Horizontal	5 mm
	Vertical	5 mm
Insertion depth		
	Horizontal	24,5 mm
	Vertical	24,5 mm

[1] 1 = Door closed

[2] 1 = Locked

[3] 4-pin

[4] See positively driven NC contact

[5] 1 = Solenoid energized

[6, 7] 1 = LED on
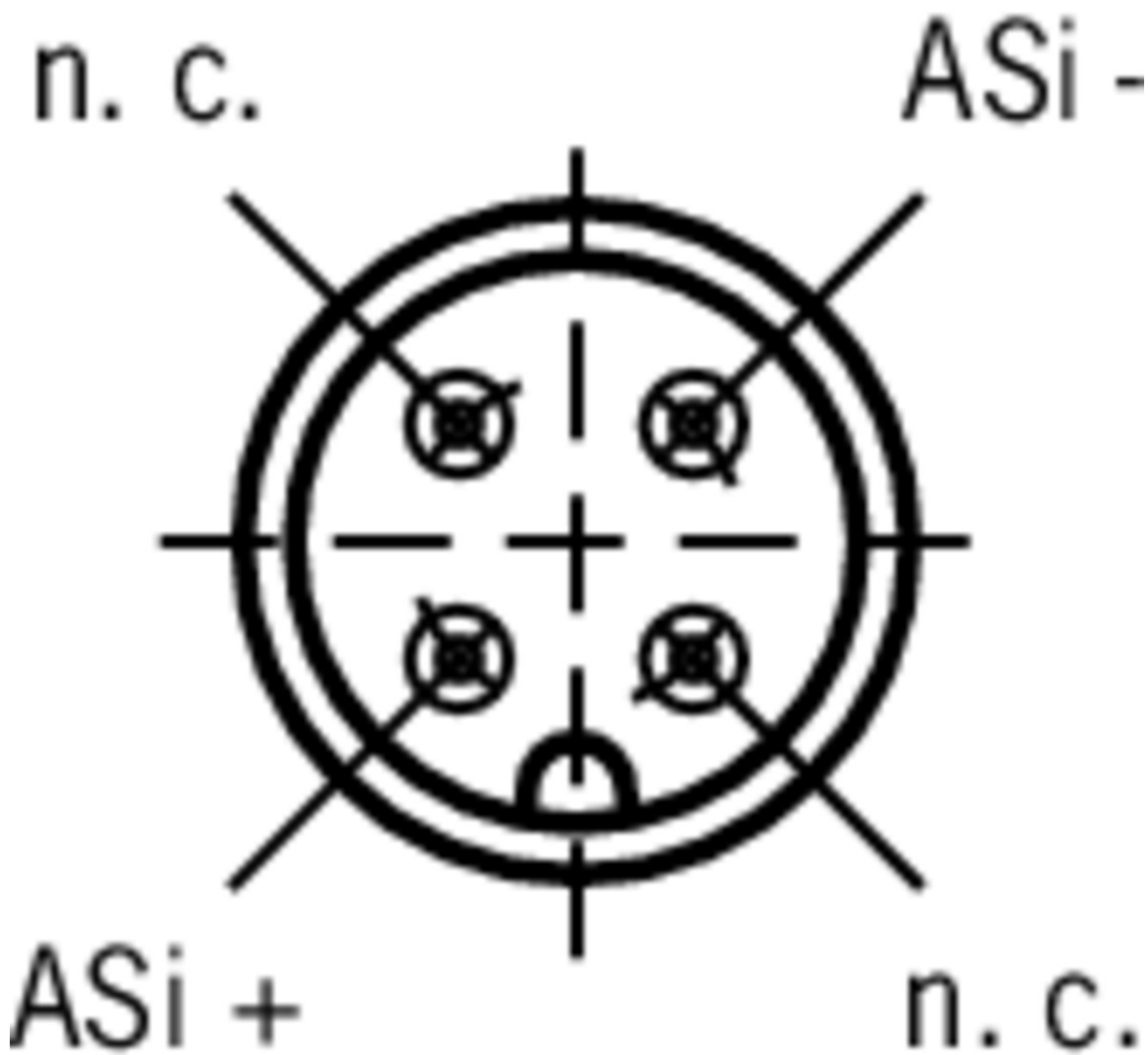
[8] ASI voltage is present

[9] Offline phase or address 0

Dimension drawing
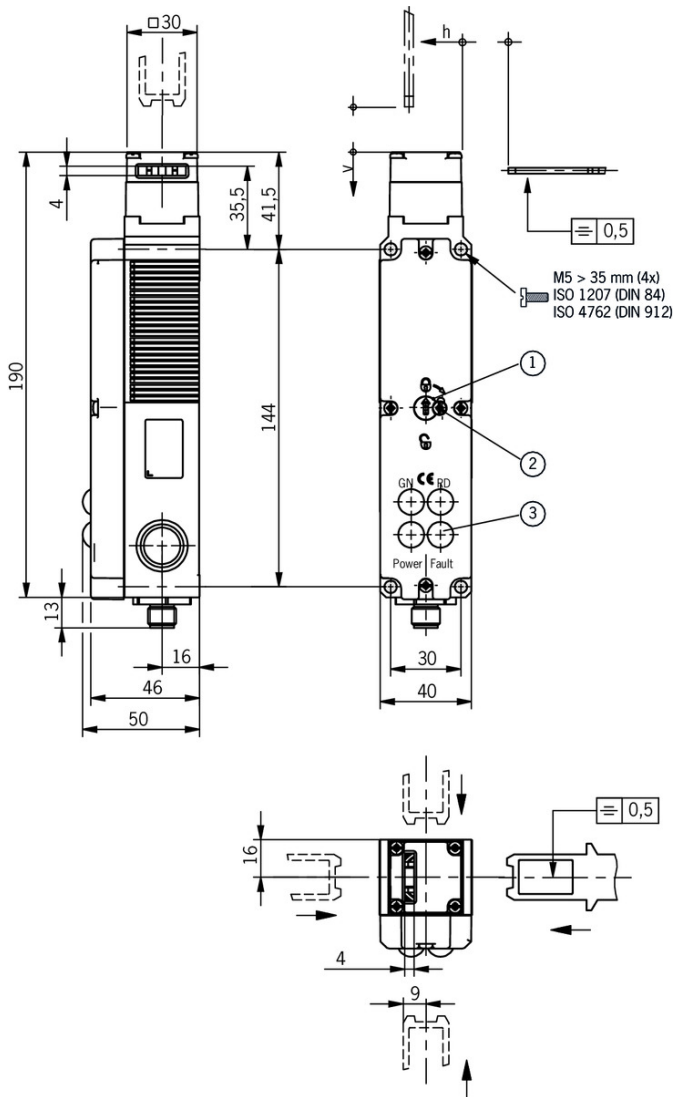
Legende

1 Auxiliary release

2 Locking screw

3 LED indicator

Connector assignment

n. c.   ASi -

ASi +   n. c.

Legende

View of connection side

Actuator

Actuator S for safety switches SGA/SGP/STA/STP/STM

097861 BETAETIGER-S-G-SN-C2115
Features
  › Two safety screws included
  › Physically compatible with TP actuator P-G

095738 BETAETIGER-S-GT-SN
Features
  › Two safety screws included
  › Actuators with rubber bushings

Actuator L for safety switches SGA/SGP/STA/STP/STM for insertion funnel

095739 BETAETIGER-S-GT-LN

Features
> Two safety screws included
> Actuators with rubber bushings

Actuator S, bent, for safety switches SGA/SGP/STA/STP/STM

095740 BETAETIGER-S-WQT-SN

Features
> Two safety screws included

115073 BETAETIGER-S-W-SN-C2115

Features
> Two stainless safety screws per actuator
> Minimum door radius 300 mm

105808 BETAETIGER-S-WT-SN-C2115

Features
> Two stainless safety screws per actuator
> Actuators with rubber bushings
> Minimum door radius 300 mm

Hinged actuator L left/right, for safety switches SGA/SGP/STA/STP/STM for insertion funnel

096844 RADIUSBETAETIGER-S-LR-LN

Features
> Actuators made of stainless steel
> Two stainless safety screws per actuator
> For doors hinged on right and left

Actuator L, bent, for safety switches SGA/SGP/STA/STP/STM for insertion funnel

095741 BETAETIGER-S-WQT-LN

Features
> Two safety screws included
> Actuators with rubber bushings

105809 BETAETIGER-S-WT-LN-C2115

Features
> Two stainless safety screws per actuator
> Actuators with rubber bushings
> Minimum door radius 300 mm

Hinged actuator S top/bottom for safety switches SGA/SGP/STA/STP/STM

095315 RADIUSBETAETIGER-S-OU-SN

Features

> Actuators made of stainless steel
> Two safety screws included
> For doors hinged at top and bottom

Hinged actuator S left/right for safety switches SGA/SGP/STA/STP/STM

096838 RADIUSBETAETIGER-S-LR-SN

Features

> Actuators made of stainless steel
> Two safety screws included
> For doors hinged on right and left

Hinged actuator L top/bottom, for safety switches SGA/SGP/STA/STP/STM for insertion funnel

096697 RADIUSBETAETIGER-S-OU-LN

Features

> Actuators made of stainless steel
> Two stainless safety screws per actuator
> For doors hinged at top and bottom

Function expansion

Handle for wire front release

099795 AY-HDL-099795

Features

> Suitable for all wire front releases

Insertion funnel for safety switches SGP/STA/STP/STM/SGA

093157 EINFUEHRTRICHTER-S

Lock for auxiliary release for safety switches CTP/TP/STP

084177 SCHLOSS TP VERSCHIEDENSCHLIESSEND

Features

> Lock unique locking
> Key removable in "unlocked" and "locked" positions

086236 SCHLOSS TP GLEICHSCHLIESSEND

Features

> Identical locking
> Key removable in "unlocked" and "locked" positions

109212 SCHLOSS TP GLEICHSCHLIESSEND C2293

Features

> Identical locking

> Key can be removed only in "locked" position

Release with automatic reset for safety switches CTP/TP/STP

103110 ENTRIEGELUNG RUECKSTELLEND TP/STP

Emergency unlocking for safety switches CTP/TP/STP

099877 NOTENTSPERRUNG TP/STP

Lockout bar STA/STP/SGA/SGP/STM

105701 SPERREINSATZ STP/STA

Features

> Prevents unintentional closing of the door
> Can be secured with padlocks

Wire front release

096230 AE-B-A1-02,0-096230

Features

> Can be used as escape release or emergency unlocking
> No automatic return
> Sheath length 2 m (rope length 6 m)

111233 AE-B-A1-03,0-F-111233

Features

> Can be used as escape release or emergency unlocking
> automatic return
> Sheath length 3 m (rope length 6 m)

097747 AE-B-A1-02,0-F-097747

Features

> Can be used as escape release or emergency unlocking
> automatic return
> Sheath length 2 m (rope length 6 m)

098313 AE-B-A1-03,0-098313

Features

> Can be used as escape release or emergency unlocking
> No automatic return
> Sheath length 3 m (rope length 6 m)

098314 AE-B-A1-04,0-098314

Features

> Can be used as escape release or emergency unlocking
> No automatic return
> Sheath length 4 m (rope length 6 m)

124770 AE-B-A1-06,0-F-124770

Features

> Can be used as escape release or emergency unlocking
> automatic return
> Rope length 6 m (without sheath)

125582 AE-B-A1-06,0-125582

Features

> Can be used as escape release or emergency unlocking
> No automatic return
> Rope length 6 m (without sheath)

Mounting accessories

Mounting plates EMP-SB for safety switches CTP, TP...A, STA, STP and TX

093456 EMP-SB

Features

> For vertical and horizontal mounting of safety switches TP...A, STA, STP and TX

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 key for mechanical key release

099434 ERSATZSCHLUESSEL GLEICHSCHL.0354

Bolt

Bolt S-... for safety switches STA, STP, SGP and SGA

096385 RIEGEL S-C

Features

> Steel bolt
> For doors hinged on the left

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

096384 RIEGEL S-A
▼ Features

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

▼ Bolt BTC-ST/G... without escape release for safety switches STA, STP, SGP and SGA

106284 BTC-ST/G-S-TH-00-X
▼ Features

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

▼ Bolt STP-GFK for safety switches STA, STP, SGP and SGA

098121 RIEGEL STP-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

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 STP...AS3

	Doc. no.	Version	Language	Download
Betriebsanleitung Sicherheitsschalter STP...AS3 Operating Instructions Safety Switches STP...AS3	106656	03-10/11	🇩🇪 🇺🇸	📄 0.5 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 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