

ITEM 106648 STP3A-4141A024SEM4AS3



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

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

EHC

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

22,5 30 V 31,6 V
Incl. solenoid currentmax.400 mA
100 %
EA code: 7
ID code: B
D0,D1,D2,D3 [4]
D0 [5]
D1 [6]
D2 [7]
Power ^[8]
Fault ^[9]

Reliability values acc. to EN ISO 13849-1

B10_D

5 x 10⁶

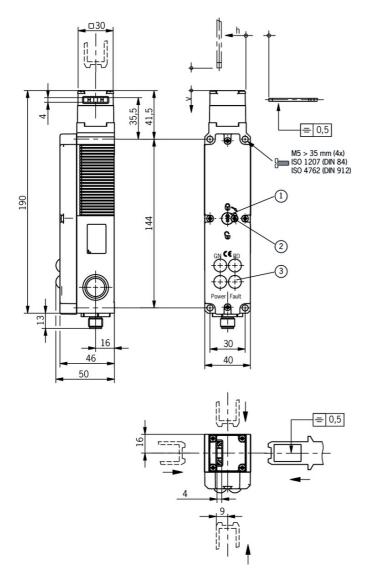
in combination withActuator BETAETIGER-S-GT-SN

Mechanical values and environment

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

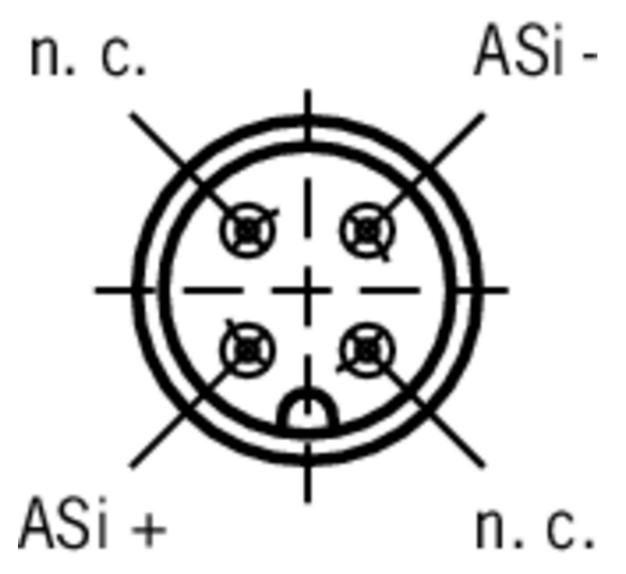
- [1] 1 = Door closed
- [2] 1 = Locked
- [3] 4-pin
- [4] See positively driven NC contact
- [5] 1 = Solenoid energized
- [6, 7] 1 = LED on
- [8] ASI voltage is present
- [9] Offline phase or address 0

Dimension drawing



Legende

- 1 Auxiliary release
- 2 Locking screw
- 3 LED indicator



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



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

- > 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

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

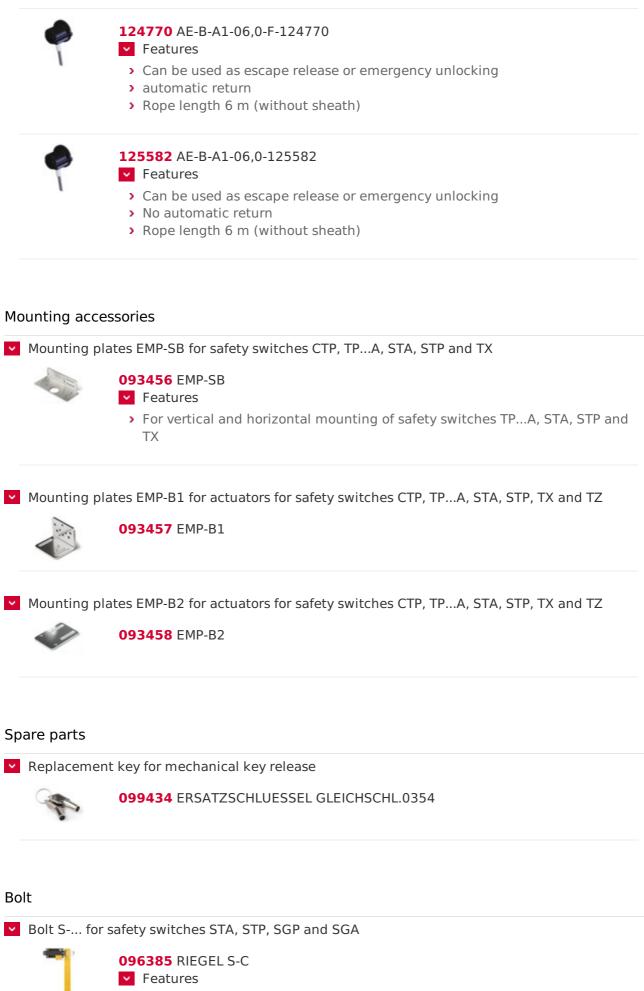
Features

- > 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)



- > 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 STPAS3 Operating Instructions Safety Switches STPAS3		03-10/11		🔁 0.5 MB	

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 EE 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		<mark>™</mark> 0.5 MB