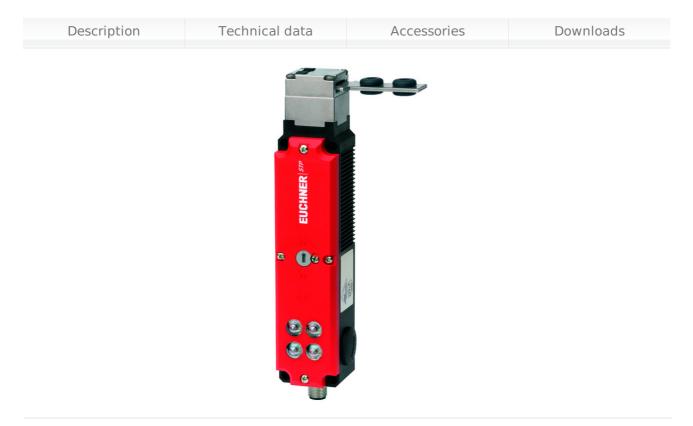


## ITEM 097790 STP3A-4141A024SEM4AS1



#### Features

- > Actuating head made of metal
- > Auxiliary release on the front

#### **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. In addition the 24V connection can be switched safely.

#### **AS-Interface inputs**

**D0, D1** Door monitoring contact SK**D2, D3** Solenoid monitoring contact ÜKEvaluation is performed via a safety monitor.

- 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			
0	0,5 kg		
Ambient temperature	-20 55 °C		
Degree of protection	IP67		
Mechanical life	1 × 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			
According to As-i Safety at Work	1 D0,D1 <sup>[1]</sup>		
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 <sup>[3]</sup>		
Approach speed			
max.	20 m/min		
Actuation frequency	1200 1/h		
Guard locking principle	Closed-circuit current principle		
Locking force F <sub>max</sub>	2500 N		
Locking force F <sub>Zh</sub>	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	max.45 mA
ASi auxiliary voltage	
IEC 60742, PELV	24 V -15% +10%
ASi auxiliary current	300 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 <sup>[4]</sup>
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 <sup>[9]</sup>

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

B10<sub>D</sub>

5 x 10<sup>6</sup>

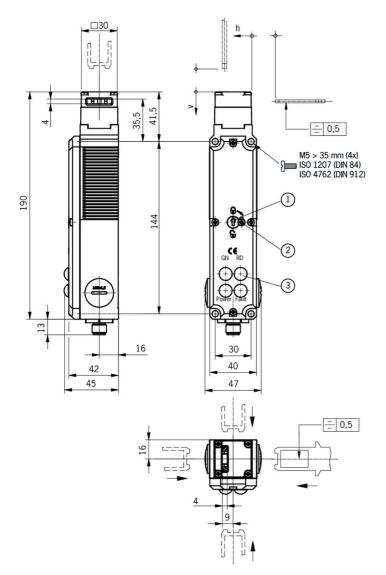
## in combination withActuator BETAETIGER-S-GT-SN

## 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

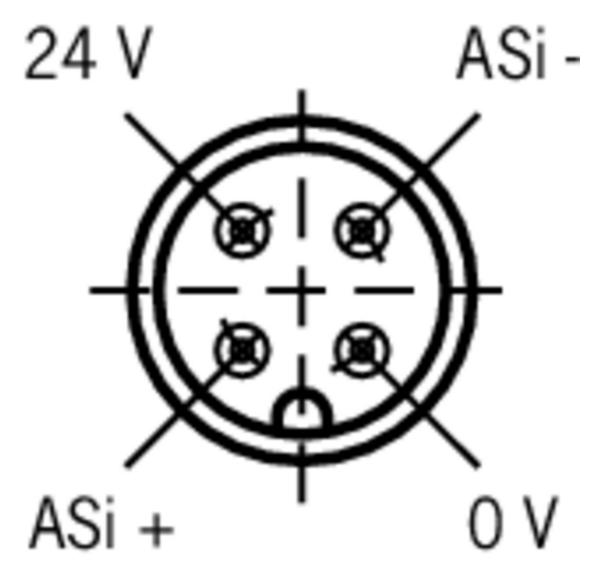
## **Dimension drawing**



## Legende

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

**Connector assignment** 



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 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

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 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



#### 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

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

## Function expansion

✓ 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

> Lock unique locking

Features

> 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

Emergency unlocking for safety switches CTP/TP/STP



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

**103110** ENTRIEGELUNG RUECKSTELLEND TP/STP

#### Handle for wire front release



099795 AY-HDL-099795

Features

> Suitable for all wire front releases

## 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)



## **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)



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

Features

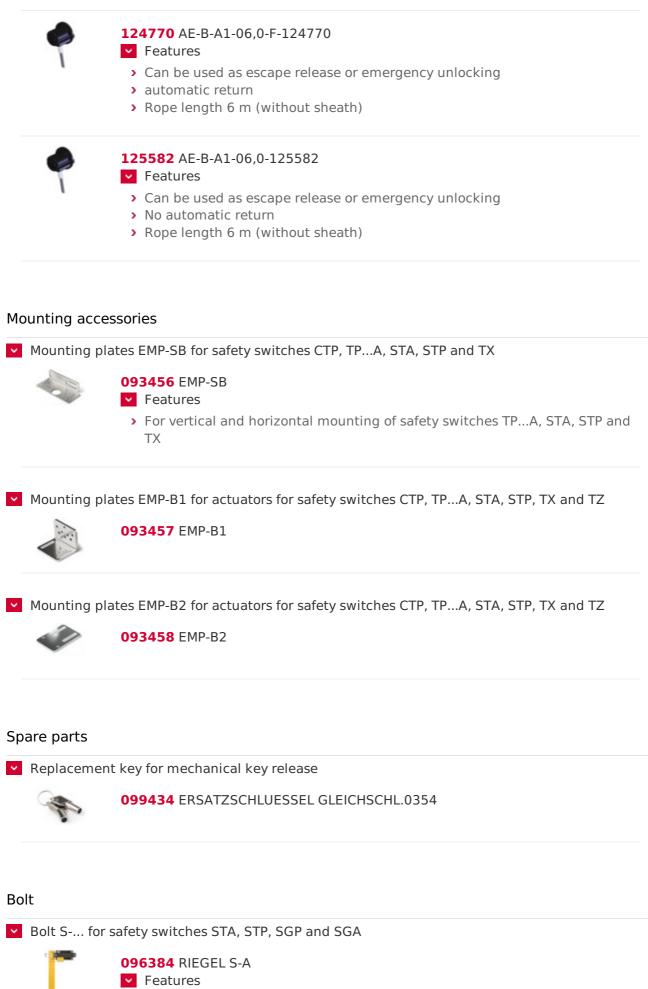
- > Can be used as escape release or emergency unlocking
- > automatic return
- > Sheath length 3 m (rope length 6 m)



#### 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 right

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



## 096385 RIEGEL S-C

- Features
  - > Steel bolt
  - > For doors hinged on the left
  - > 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

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

#### 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...AS1

	Doc. no.	Version	Language	Download
Betriebsanleitung Sicherheitsschalter STPAS1	097810	04-07/15		🔁 0.9 MB
Operating Instructions Safety Switches STPAS1	097810	04-07/15		📩 0.9 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 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		🔁 0.5 MB

## CAD data

CAD data for this item on TraceParts