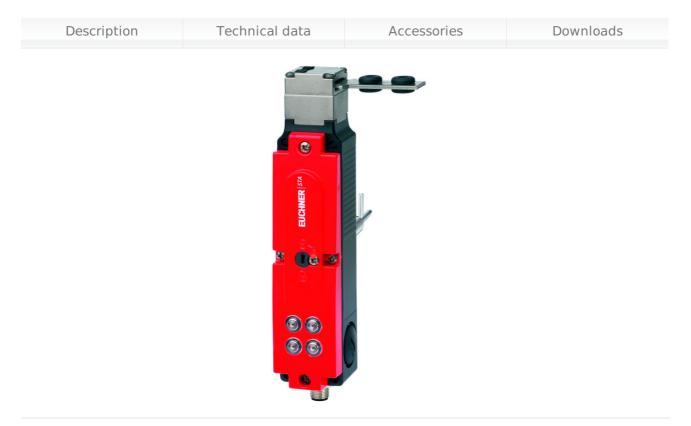


# ITEM 119732 STA3A-4141A024SEM4AS1C1993



#### Features

- Escape release on the rear
- Auxiliary release on the front

#### **Guard locking type**

**STA3** 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.

## 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.

## Escape release (C1993, long actuator shaft)

This is used for manual release of guard locking from within the danger area without tools. With identification of On/Off position.

### Approvals

# EHC

## Mechanical values and environment

Housing material	Alloy - die-cast
Weight	
Net	0,6 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 <sup>[2]</sup>
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>	3000 N
Locking force F <sub>Zh</sub>	2300 N
Retention force	20 N
Extraction force	30 N
Actuating force	35 N
Insertion depth	24,5 mm

# **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>	$11,5 \times 10^{6}$

# in combination withActuator BETAETIGER-S-GT-SN

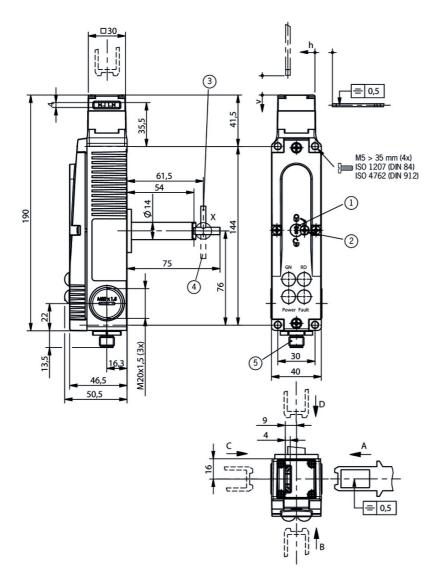
# Mechanical values and environment

Overtravel

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

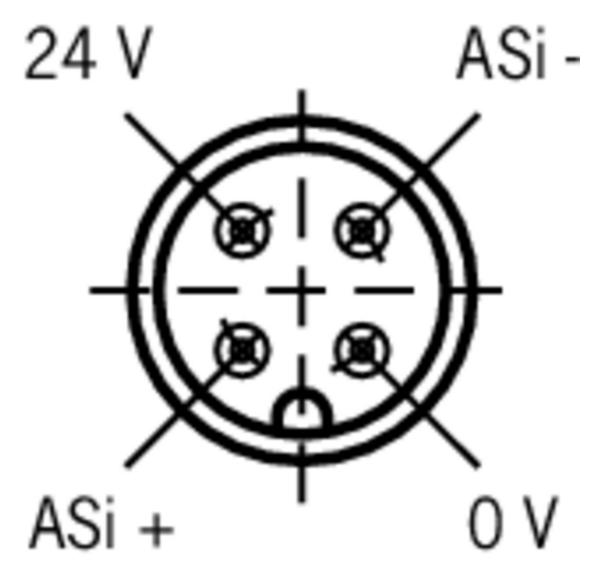
# **Dimension drawing**



# Legende

- 1 Auxiliary release
- 2 Locking screw
- 3 Escape release, basic position
- 4 Escape release, unlocked position
- 5 Plug connector not aligned

**Connector assignment** 



# Legende

View of connection side

### Actuator

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



095740 BETAETIGER-S-WQT-SN



> Two safety screws included

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



095739 BETAETIGER-S-GT-LN ✓ Features

> Two safety screws included

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



## 095741 BETAETIGER-S-WQT-LN

- FeaturesTwo safety screws included
- Actuators with rubber bushings

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

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 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



Features

> Two safety screws included

> Actuators with rubber bushings

#### Bolt

Bolt BTC-ST/G... with escape release for safety switches STA, STP, SGP and SGA



#### 106285 BTC-ST/G-S-TH-01-F

- FeaturesAluminum bolt
  - > For doors hinged on the left or right
  - > Lever for escape release from the danger area
  - > Pushbutton in open position
  - > Can be locked in open position with padlocks
- Actuator included

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



# Features

- > Steel bolt
- > Lever for escape release from the danger area
- > For doors hinged on the left
- > Detent knob in open position
- > Can be locked in open position with padlocks
- > Actuator included



#### Features

- > Steel bolt
- > Lever for escape release from the danger area
- > For doors hinged on the right
- > Detent knob in open position
- > Can be locked in open position with padlocks
- Actuator included

#### 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



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



093458 EMP-B2

## Function expansion

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



093157 EINFUEHRTRICHTER-S

### Emergency unlocking for safety switches STA



099876 NOTENTSPERRUNG STA

## Lockout bar STA/STP/SGA/SGP/STM



105701 SPERREINSATZ STP/STA

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

Handle for escape release for safety switches TP/STP/STA



105329 FE-GRIFF

#### 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



## **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)



#### 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)



#### 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)

### 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

Betriebsanleitung Sicherheitsschalter STA...AS1

## Instructions

	Doc. no.	Version	Language	Download
Betriebsanleitung Sicherheitsschalter STAAS1 Operating Instructions Safety Switches STAAS1	099108	04-08/15		🔁 1.6 MB
Инструкция по эксплуатации предохранительных выключателей STAAS1	099108	04-08/15	-	🔁 0.4 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		<mark>™</mark> 0.5 MB