

### ITEM 098993 STA3A-4141A024SEM4AS1

Description Technical data Accessories Downloads



### **Features**

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 ÜK

Evaluation is performed via a safety monitor.

### **AS-Interface outputs**

### **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**



#### **Mechanical values and environment**

Alloy - die-cast
*
0,6 kg
-20 55 °C
IP67
$1 \times 10^{6}$
Silver alloy, gold flashed
Slow-action switching contact
Any
1 D0,D1 <sup>[1]</sup>
1 D2,D3 <sup>[2]</sup>
Plug connector M12 [3]
20 m/min
1200 1/h
Closed-circuit current principle
3000 N
2300 N
20 N

Extraction force	30 N
Actuating force	35 N
Insertion depth	24,5 mm

### **Electrical connection ratings**

22,5 30 V 31,6 V
max.45 mA
24 V -15% +10%
300 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 <sub>D</sub>	$11,5 \times 10^6$
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### in combination with Actuator BETAETIGER-S-GT-SN

### **Mechanical values and environment**

Overtravel	5 mm
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[1] 1 = Door closed

[2] 1 = Locked

[3] <sub>4-pin</sub>

[4] See positively driven NC contact

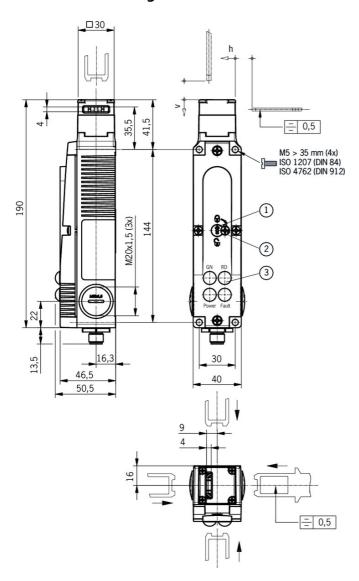
[5] 1 = Solenoid energized

[6, 7] 1 = LED on

[8] ASI voltage is present

[9] Offline phase or address 0

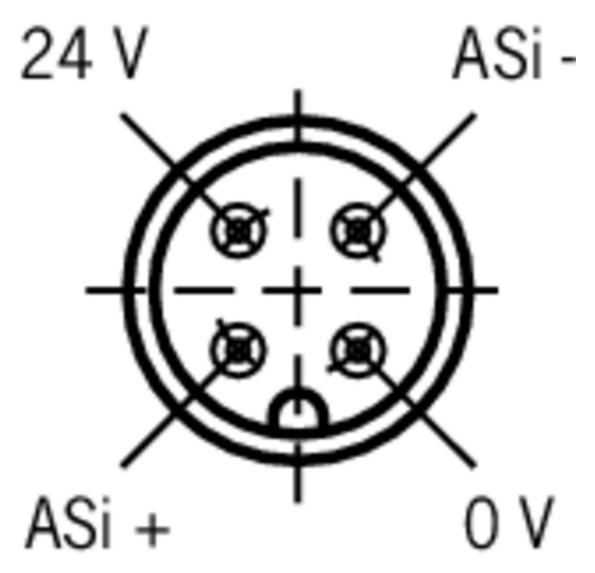
# **Dimension drawing**



# 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
- 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
- ➡ 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
- 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

### Mounting accessories

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



**093457** EMP-B1

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



**093458** EMP-B2

### Bolt

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



### **096384** RIEGEL S-A

- Features
  - > 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 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

### **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

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)



- 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

### Instructions

■ Betriebsanleitung Sicherheitsschalter STA...AS1

	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		<b>™</b> 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 Declaraţia de conformitate UE EÚ vyhlásenie o zhode	2077153	25-02/17		₹ 0.5 MB

# **CAD** data

CAD data for this item on TraceParts