

ITEM 115584 STA3A-2131A024MF-EX

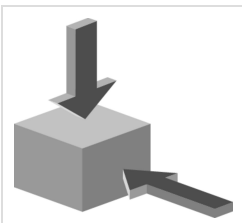
| Description | Technical data | Accessories | Downloads |
|-------------|----------------|-------------|-----------|
|-------------|----------------|-------------|-----------|



Features

- › ATEX version
- › Suitable for usage in zone 2 and 22 (gases and dusts)
- › Auxiliary release on the front
- › With door monitoring contact

Approach direction



- › Figure
Horizontal and vertical
Can be adjusted in 90° steps

Solenoid operating voltage

- › AC/DC 24 V +10%, -15%

Guard locking type

STA3 Closed-circuit current principle, guard locking by spring force. Release by applying voltage to the guard locking solenoid.

Switching element

2131 Slow-action switching contact 2 NC \oplus + 1 NO + 1 NC (door monitoring contact)

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

| | |
|--|----------------------------------|
| Housing material | Die-cast alloy |
| Weight | Net 0,6 kg |
| Ambient temperature | -20 ... 75 °C |
| Degree of protection | IP67 |
| Mechanical life | 1 x 10 ⁶ |
| Contact material | Silver alloy, gold flashed |
| Switching principle | Slow-action switching contact |
| Installation position | Any |
| Number of door position NC contacts | 1 |
| Number of guard lock monitoring positively driven contacts | 2 |
| Number of guard lock monitoring NO contacts | 1 |
| Connection | 3 x Cable gland M20 x 1.5 |
| Clamping range for cable | 6,5 ... 12 mm |
| Approach speed | max. 20 m/min |
| Actuation frequency | 1200 1/h |
| Guard locking principle | Closed-circuit current principle |
| Locking force F _{max} | 3000 N |
| Locking force F _{Zh} | 2300 N |
| Retention force | 20 N |
| Extraction force | 30 N |

| | |
|-----------------|-------------|
| Actuating force | 35 N |
| Insertion depth | min.24,5 mm |

Electrical connection ratings

| | |
|---|------------------------------|
| Rated thermal current I_{th} | 4 A |
| Utilization category according to EN 60947-5-1 | AC-15 4A 50V DC-13 4A 24V |
| Solenoid operating voltage | AC/DC 24 V -15% ... +10% |
| Short circuit protection according to IEC 60269-1 | (Fuse) 4A gG |
| Rated insulation voltage U_i | 50 V |
| Rated impulse withstand voltage U_{imp} | 2,5 kV |
| Switching voltage | Min. at 10mA 12 V |
| Switching current | Min. at 24V 1 mA |
| Power consumption | 8 W |
| Solenoid duty cycle | 100 % |
| Connection cross-section | 0,34 ... 1,5 mm ² |

Miscellaneous

| | |
|----------------------|---|
| Explosion protection | incl. cable gland II3G Ex nR IIB T4 Gc X /II3D Ex tc IIIC T110°C Dc X |
|----------------------|---|

Reliability values acc. to EN ISO 13849-1

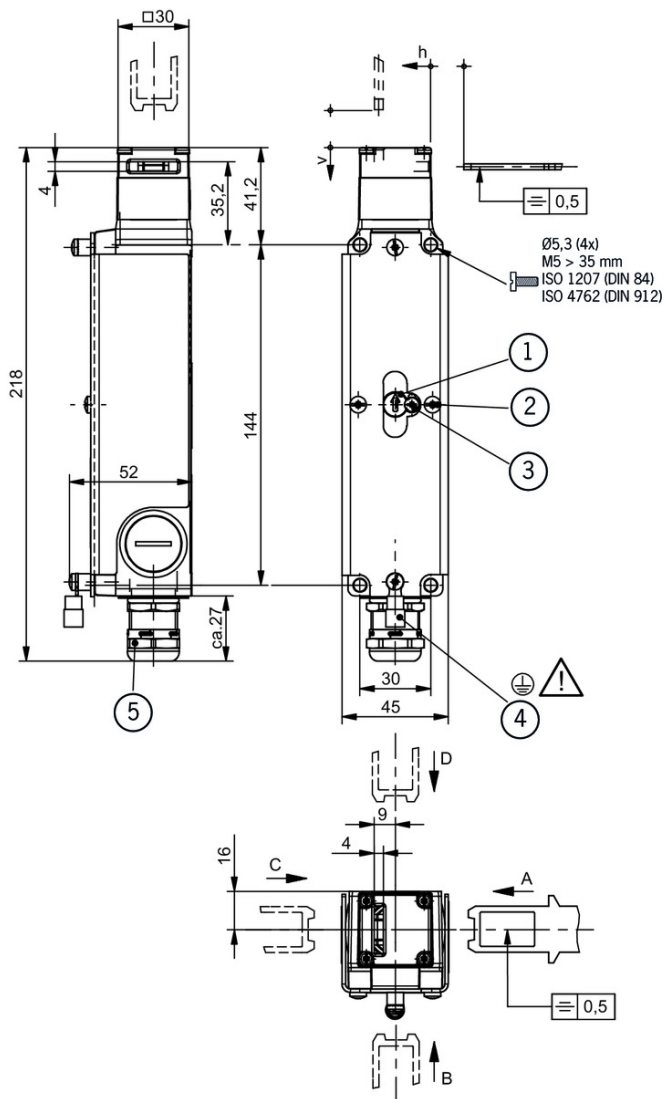
| | Control of the guard locking |
|-------------------|---|
| Category | Depending on external control of guard locking |
| Performance Level | Depending on external control of guard locking |
| PFH _D | Depending on external control of guard locking |
| | Monitoring of guard locking and the safety guard position |
| B10 _D | 11,5 x 10 ⁶ |

in combination with Actuator BETAETIGER-S-G-SN-C2115

Mechanical values and environment

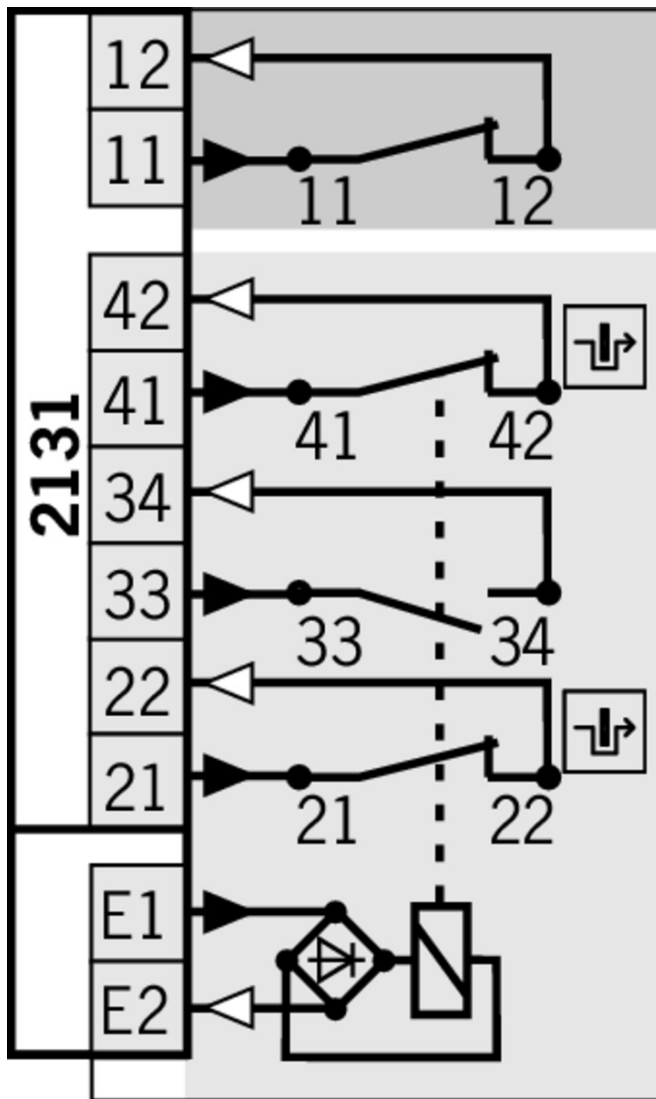
| | |
|------------|------|
| Overtravel | 5 mm |
|------------|------|

Dimension drawing



Legende

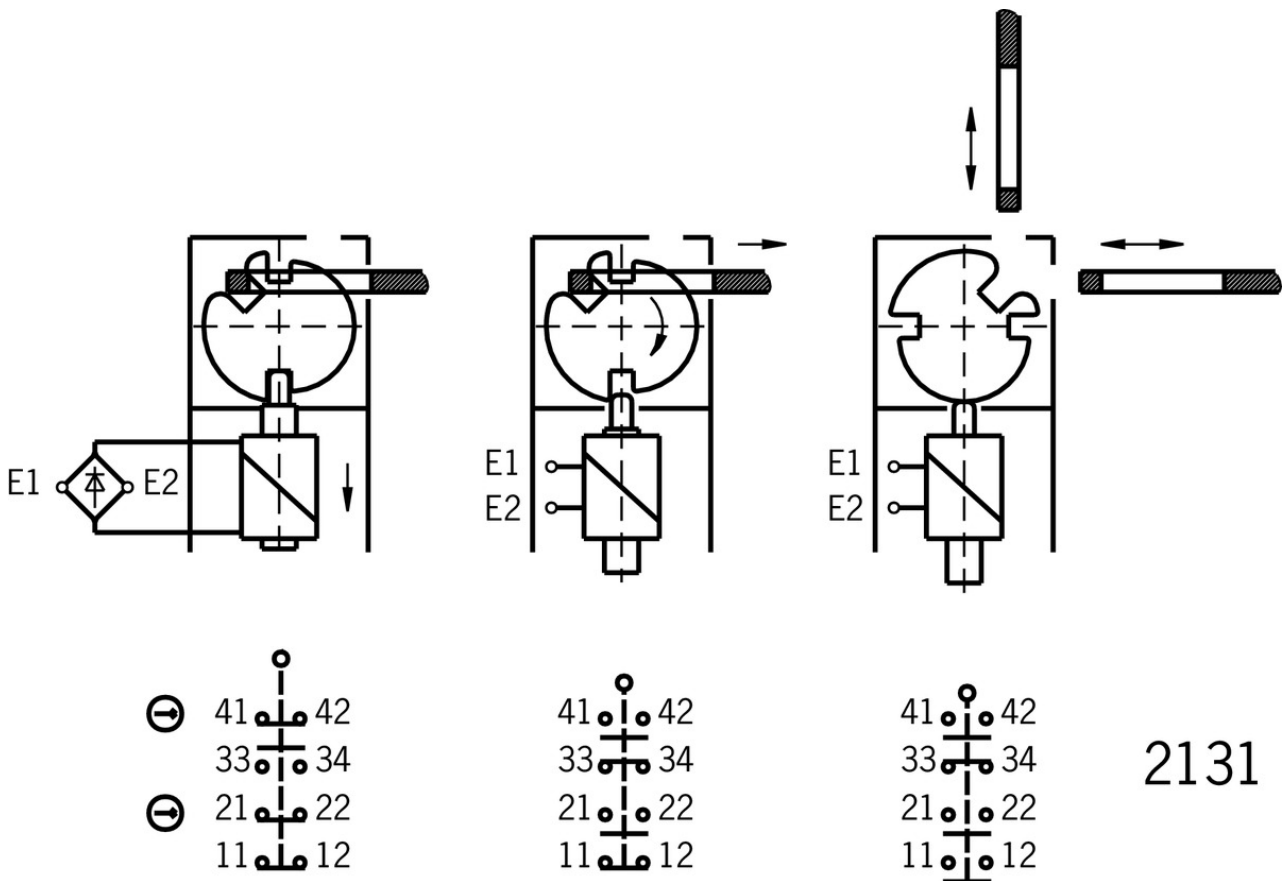
- 1 Auxiliary release
- 2 Cover screw (4x M = 1.5 Nm)
- 3 Locking screw
- 4 Ground switch via cable lug to prevent electrostatic charging, cable cross-section 4...6 mm²
- 5 Cable gland included clamping range Ø6.5 - 12 mm



Legende

- Solenoid monitoring
- Door monitoring

Switching functions



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

- 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, bent, for safety switches SGA/SGP/STA/STP/STM



115073 BETAETIGER-S-W-SN-C2115

▼ Features

- › Two stainless safety screws per actuator
- › Minimum door radius 300 mm

-
- ▼ Actuator for safety switch SGA-EX/STA-EX



158407 BETAETIGER-S-WQ-SN-C2498

▼ Features

- › Two safety screws included
- › Minimum door radius 300 mm

Function expansion

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



093157 EINFUEHRTRICHTER-S

-
- ▼ Lockout bar STA/STP/SGA/SGP/STM



105701 SPERREINSATZ STP/STA

▼ Features

- › Prevents unintentional closing of the door
 - › Can be secured with padlocks
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Instructions

Manual de instrucciones del interruptor de seguridad STA...EX













| | Doc. no. | Version | Language | Download |
|---|----------|----------|--|--|
| Betriebsanleitung Sicherheitsschalter STA...EX Operating Instructions Safety Switch STA...EX | 2115582 | 05-02/18 |   |  2.2 MB |
| Mode d'emploi pour les interrupteurs de sécurité STA...EX | 2115582 | 05-02/18 |  |  1.2 MB |
| Manual de instrucciones del interruptor de seguridad STA...EX | 2115582 | 05-02/18 |  |  1.2 MB |
| Istruzioni di impiego dei finecorsa di sicurezza STA...EX | 2115582 | 05-02/18 |  |  1.2 MB |
| Manual de instruções Chave de segurança STA...EX | 2115582 | 05-02/18 |  |  1.2 MB |
| 使用说明书 安全开关 STA...EX | 2115582 | 05-02/18 |  |  1.6 MB |

Catalogs

ATEX - Sicherheitsschalter für explosionsgefährdete Bereiche ATEX - Safety switches for potentially explosive atmospheres ATEX - Interrupteurs de sécurité pour atmosphères explosibles ATEX - Interruptores de seguridad para uso en atmósferas potencialmente explosivas

| | Doc. no. | Version | Language | Download |
|--|----------|----------|---|--|
| ATEX - Sicherheitsschalter für explosionsgefährdete Bereiche | 136804 | 03-04/17 |  |  1.5 MB |
| ATEX - Interrupteurs de sécurité pour atmosphères explosibles | 136806 | 03-04/17 |  |  1.5 MB |
| ATEX - Interruptores de seguridad para uso en atmósferas potencialmente explosivas | 136807 | 03-04/17 |  |  1.5 MB |
| ATEX - Safety switches for potentially explosive atmospheres | 136805 | 03-04/17 |  |  1.0 MB |

Bezpečnostní spínače s plastovým pouzdrém Sicherheitsschalter mit Kunststoffgehäuse Safety Switches with Plastic Housing Interruptores de seguridad con carcasa plástica Interrupteurs de sécurité avec boîtier plastique 塑料壳体的安全开关

| | Doc. no. | Version | Language | Download |
|--|----------|----------|---|--|
| Sicherheitsschalter mit Kunststoffgehäuse | 096955 | 11-03/18 |  |  6.6 MB |
| Interrupteurs de sécurité avec boîtier plastique | 100677 | 11-03/18 |  |  6.6 MB |
| Interruptores de seguridad con carcasa plástica | 104855 | 11-03/18 |  |  6.6 MB |
| Bezpečnostní spínače s plastovým pouzdrém | 121649 | 11-03/18 |  |  6.6 MB |
| Safety Switches with Plastic Housing | 096956 | 11-03/18 |  |  6.6 MB |
| 塑料壳体的安全开关 | 116243 | 11-03/18 |  |  6.2 MB |







Sicherheitsschalter mit Metallgehäuse Safety Switches with Metal Housing Bezpečnostní spínače s kovovým pouzdrém Interrupteurs de sécurité avec boîtier métallique 金属壳体的安全开关 Interruptores de seguridad con carcasa metálica

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| | | | | |
|---|--------|----------|---|---|
| Sicherheitsschalter mit Metallgehäuse | 100319 | 11-03/18 |  |  7.9 MB |
| Interrupteurs de sécurité avec boîtier métallique | 100676 | 11-03/18 |  |  7.9 MB |
| Interruptores de seguridad con carcasa metálica | 104856 | 11-03/18 |  |  14.0 MB |
| Safety Switches with Metal Housing | 100369 | 11-03/18 |  |  7.9 MB |
| Bezpečnostní spínače s kovovým pouzdem | 121650 | 11-03/18 |  |  7.9 MB |
| 金属壳体 的安全开关 | 102453 | 11-03/18 |  |  8.2 MB |

Declaration of conformity

EU-Konformitätserklärung

| | Doc. no. | Version | Language | Download |
|-------------------------------|----------|----------|---|--|
| EU-Konformitätserklärung | 2093482 | 13-06/16 |  |  0.3 MB |
| Declaración UE de conformidad | | |  | |
| Déclaration UE de conformité | | |  | |
| Dichiarazione di conformità | | |  | |
| EU declaration of conformity | | |  | |