

STA3A-2131A024MF-EX (ORDER NO. 115584)

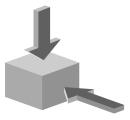
Safety switch STA with door monitoring contact, ATEX

- ▶ ATEX version
- ▶ Suitable for use in zones 2 and 22 (gases and dusts)
- ▶ Auxiliary release on the front
- ▶ With door monitoring contact



Description

Approach direction



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.

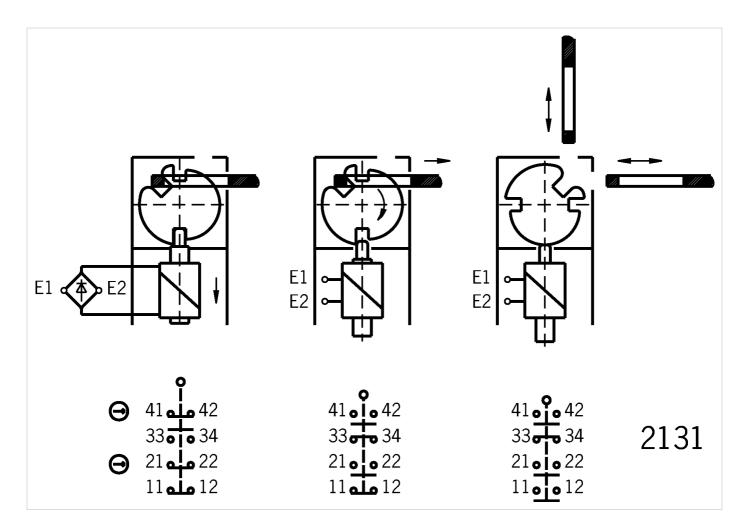
Switching element

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

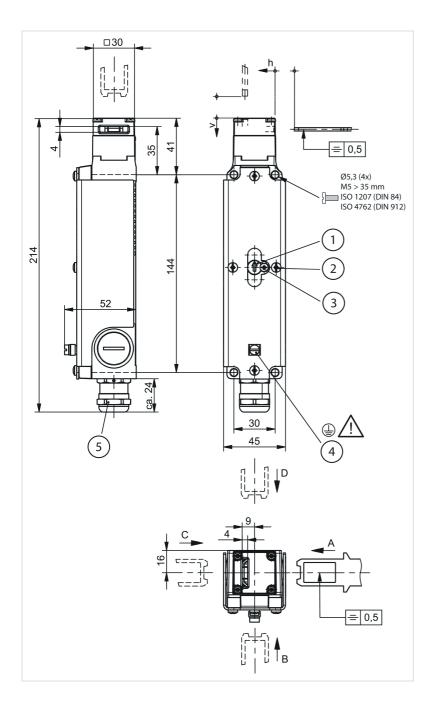
Auxiliary release

This 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.

Function drawings

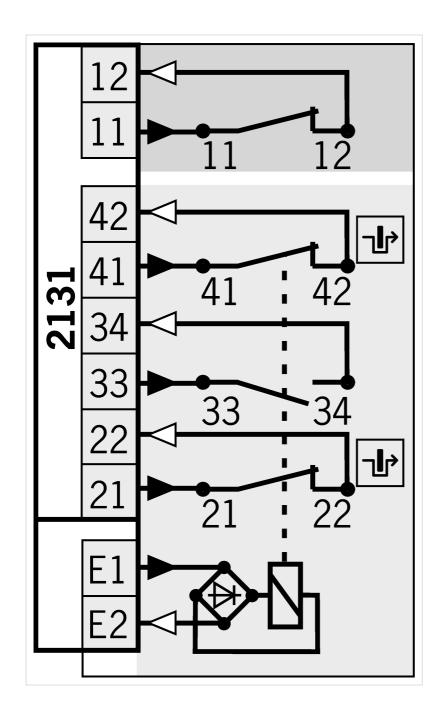


Dimension drawings



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

Connection examples







Technical data

<u>Approvals</u>





Electrical connection ratings

Connection cross-section	0.34 1.5 mm²
Power consumption	8 W
Rated impulse withstand voltage U _{imp}	2.5 kV
Rated insulation voltage U _i	50 V
Short circuit protection according to IEC 60269-1	4A gG
Solenoid duty cycle	100 %
Solenoid operating voltage	
	24 V -15% +10%
Switching current	
min. at 24 V	1 mA
Switching voltage	
min. at 10 mA	12 V
thermal rated current I _{th}	4 A
Utilization category	
DC-13	4A 24V
AC-15	4A 50V
Mechanical values and environment	
Actuating force	35 N
Actuation frequency	max. 1200 1/h
Ambient temperature	-20 +75 °C
Approach direction	A
Approach speed	max. 20 m/min
Clamping range for cable	6.5 12 mm
Connection	
3 x	Cable gland M20 x 1.5
Degree of protection	IP67
Extraction force	30 N
Guard locking principle	Closed-circuit current principle
Insertion depth	24.5 mm
Installation orientation	any
Locking force F _{max}	3000 N
Locking force F _{Zh}	2300 N
Material	
Housing	Die-cast alloy
Contact	Silver alloy, gold flashed
Mechanical life	1 x 10 ⁶
Number of door position NC contacts	1
Number of guard lock monitoring NO contacts	1
Number of guard lock monitoring positively driven contacts	2
Retention force	20 N
Switching principle	Slow-action switching contact

Control of guard locking

Category	Depending on external control of guard locking
Performance Level	Depending on external control of guard locking
PFHd	Depending on external control of guard locking
	Monitoring of guard locking and the guard position
B10d	11.5 x 10 ⁶

Miscellaneous

Explosion protection

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

In combination with actuator ACTUATOR-S-G-SN-C2115

Overtravel 5 mm

Accessories

Actuator



097861BETAETIGER-S-G-SN-C2115

- ► Two safety screws included
- Physically compatible with TP actuator P-G

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



115073BETAETIGER-S-W-SN-C2115

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

Bent actuator S for safety switch SGA-EX/STA-EX



158407BETAETIGER-S-WQ-SN-C2498

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

Hinged actuator L, left/right, for safety switch SGA/SGP/STA/STP/STM for insertion funnel



096844RADIUSBETAETIGER-S-LR-LN

- Actuator made of stainless steel
- ► Two stainless-steel safety screws per actuator
- \blacktriangleright For doors hinged on the right and left

Hinged actuator L, top/bottom, for safety switch SGA/SGP/STA/STP/STM for insertion funnel



096697RADIUSBETAETIGER-S-OU-LN

- Actuator made of stainless steel
- ► Two stainless-steel safety screws per actuator
- ▶ For top-hinged and bottom-hinged doors

Hinged actuator S, left/right, for safety switch SGA/SGP/STA/STP/STM



096838 RADIUSBETAETIGER-S-LR-SN

- Actuator made of stainless steel
- ▶ Two safety screws included
- For doors hinged on the right and left

Hinged actuator S, top/bottom, for safety switch SGA/SGP/STA/STP/STM



095315RADIUSBETAETIGER-S-OU-SN

- ▶ Actuator made of stainless steel
- Two safety screws included
- ▶ For top-hinged and bottom-hinged doors



093157 EINFUEHRTRICHTER-S

Lockout bar STA/STP/SGA/SGP/STM



105701 SPERREINSATZ STP/STA

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

Metal bolt

Bolt BTM-UNIP-S... for safety switches TP, STP, STA, CTP and CTA



159951BTM-UNIP-S-TH-00-X-159951

- ▶ Steel bolt
- ▶ For doors hinged on the left or right
- Can be locked in open position with padlocks
- Actuator not included

Contacts

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