

ITEM 096938 STA3A-2131A024M

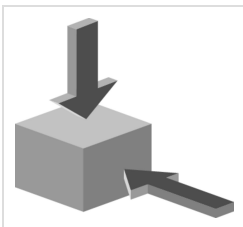
Description	Technical data	Accessories	Downloads
-------------	----------------	-------------	-----------



Features

- › 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	Alloy - die-cast
Weight	Net 0,6 kg
Ambient temperature	-20 ... 80 °C
Degree of protection	IP67
Mechanical life	1×10^6
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 M20 x 1.5
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 230V
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	250 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

Reliability values according to EN ISO 13849-1

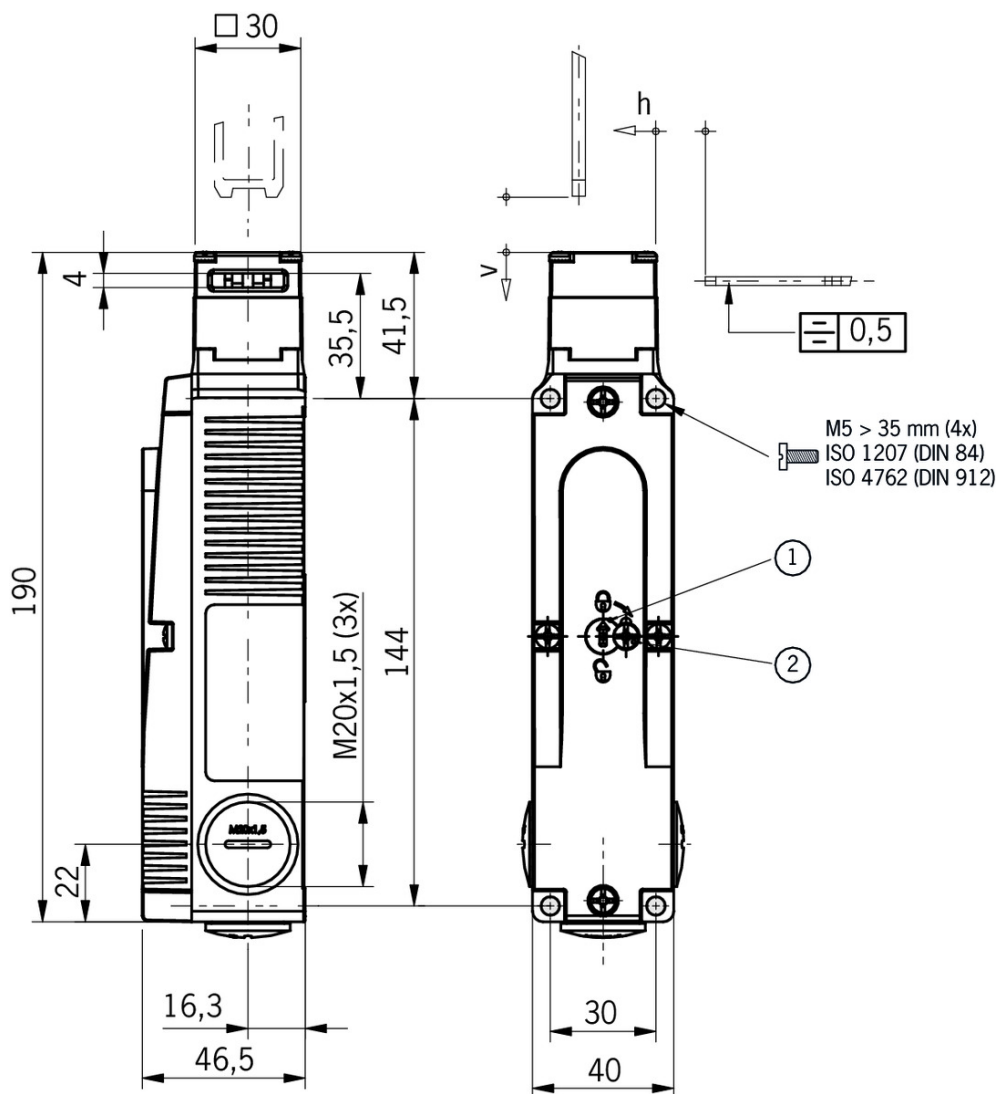
	Control of the guard locking
Category	Depending on external control of guard locking
Performance Level	Depending on external control of guard locking
PFH _D	Depending on external control of guard locking
	Monitoring of guard locking and the safety guard position
B10 _D	11,5 x 10 ⁶

in combination with Actuator BETAETIGER-S-GT-SN

Mechanical values and environment

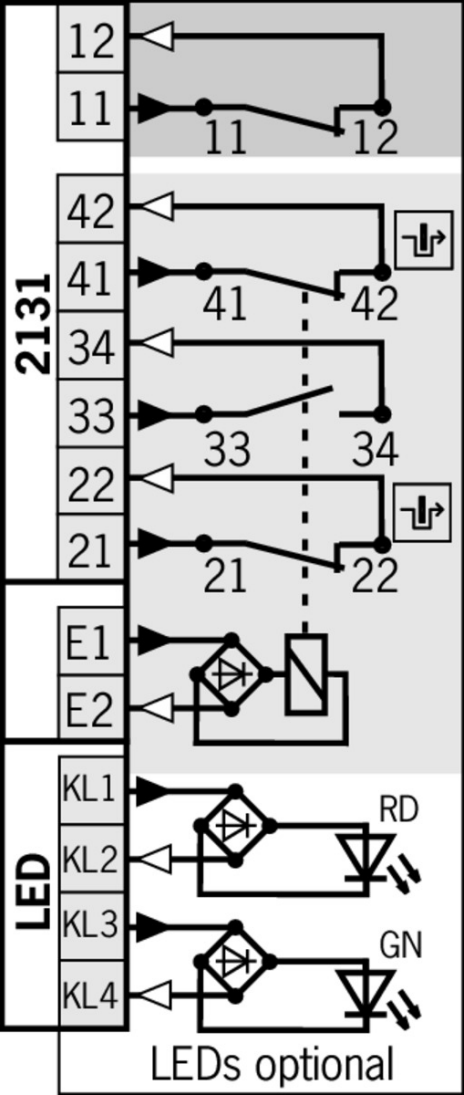
Overtravel	5 mm
------------	------

Dimension drawing



Legende

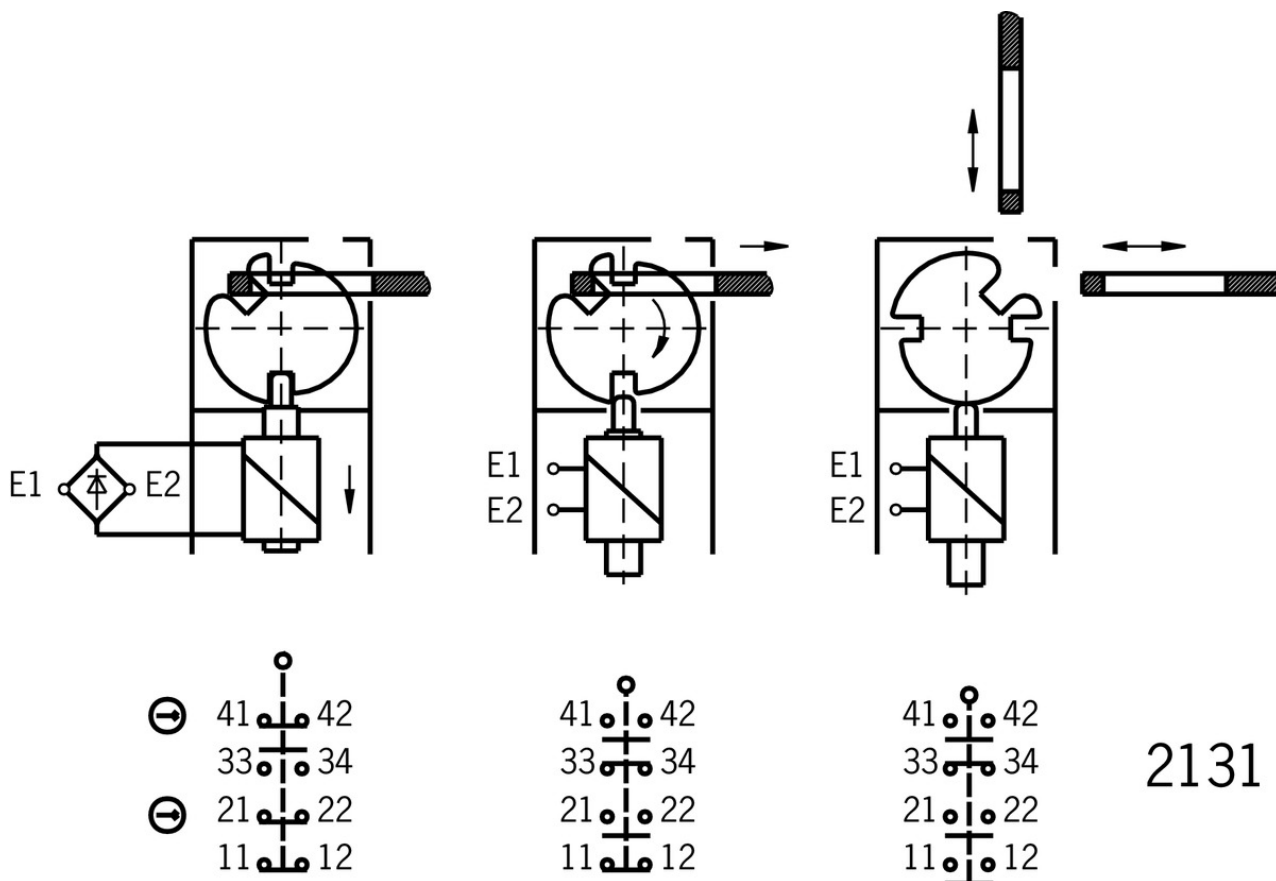
- 1 Auxiliary release
- 2 Locking screw



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



095738 BETAETIGER-S-GT-SN

Features

- › Two safety screws included
- › Actuators with rubber bushings

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

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

▼ 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

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



095740 BETAETIGER-S-WQ-SN

▼ Features

- › Two safety screws included

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



095741 BETAETIGER-S-WQ-LN

▼ Features

- › Two safety screws included
- › Actuators with rubber bushings

Function expansion

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



093157 EINFUEHRTRICHTER-S

▼ Built-in LED



087423 EINBAULEUCHTE LED M20X1,5



095510 EINBAULEUCHTE LED-F M20X1,5

▼ 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
- › 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)



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)

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



093458 EMP-B2

- ✓ 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

- ✓ Switch bracket TP/STP GFK



096613 SCHALTERAUFNAHME TP/STP GFK

✓ Features

- › Switch bracket made of fiber glass reinforced plastic
- › For left or right hinged doors

▼ 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 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

▼ Cable glands M20x1.5



086233 EKPM20/06 086233

Instructions

▼ Operating Instructions STA... Safety Switch

Doc. no.	Version	Language	Download
----------	---------	----------	----------

Betriebsanleitung Sicherheitsschalter STA... Operating Instructions STA... Safety Switch Manual de instrucciones del interruptor de seguridad STA... Mode d'emploi pour les interrupteurs de sécurité STA... Istruzioni d'impiego dei finecorsa di sicurezza STA...	096775	07-11/14	    	 7.0 MB
---	--------	----------	--	---

Catalogs

▼ Safety Switches with Plastic Housing

	Doc. no.	Version	Language	Download
Sicherheitsschalter mit Kunststoffgehäuse	096955	10-10/12		 18.8 MB
Safety Switches with Plastic Housing	096956	10-10/12		 18.7 MB
Interrupteurs de sécurité avec boîtier plastique	100677	10-10/12		 19.2 MB
Interruptores de seguridad con carcasa plástica	104855	10-10/12		 18.7 MB
Bezpečnostní spínače s plastovým pouzdem	121649	10-10/12		 6.8 MB

▼ Safety Switches with Metal Housing

	Doc. no.	Version	Language	Download
Sicherheitsschalter mit Metallgehäuse	100319	10-02/14		 13.9 MB
Safety Switches with Metal Housing	100369	10-02/14		 13.9 MB
Interrupteurs de sécurité avec boîtier métallique	100676	10-02/14		 13.8 MB
Interruptores de seguridad con carcasa metálica	104856	10-02/14		 13.7 MB

▼ Bezpečnostní spínače s kovovým pouzdem

	Doc. no.	Version	Language	Download
Bezpečnostní spínače s kovovým pouzdem	121650	09-01/13		 7.9 MB

Declaration of conformity

▼ EU declaration of conformity

	Doc. no.	Version	Language	Download
EU-Konformitätserklärung EU declaration of conformity Declaración UE de conformidad Déclaration UE de conformité Dichiarazione di conformità	2077153	25-02/17	    	 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 Declarația de conformitate UE EÚ vyhlásenie o zhode	2077153	25-02/17	         	 0.5 MB

CAD data

CAD data for this item on TraceParts