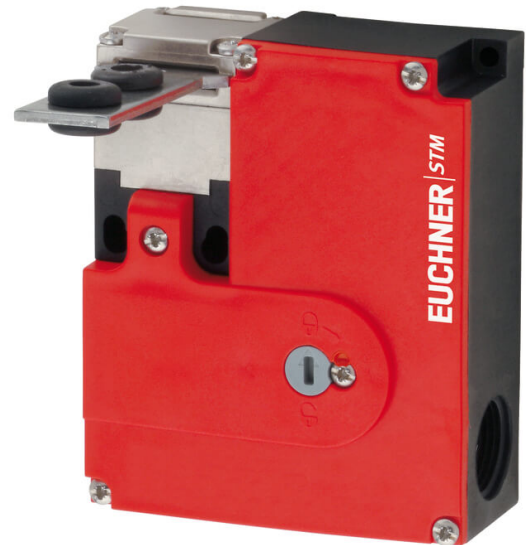


STM1A-222B024-MC2160 (ORDER NO. 098856)

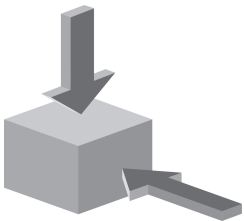
Safety switch STM

- ▶ Actuating head made of metal
- ▶ Auxiliary release on the front
- ▶ 1 LED green



Description

Approach direction



Figure

Horizontal and vertical

Can be adjusted in 90° steps

Solenoid operating voltage

- ▶ AC/DC 24 V +10%, -15%

Guard locking type

STM1 Closed-circuit current principle, guard locking by spring force. Release by applying voltage to the guard locking solenoid.

Switching element

ÜK For monitoring the guard locking (built-in solenoid) slow-action switching contact 1 NC (→)

SK For monitoring the door/actuator position

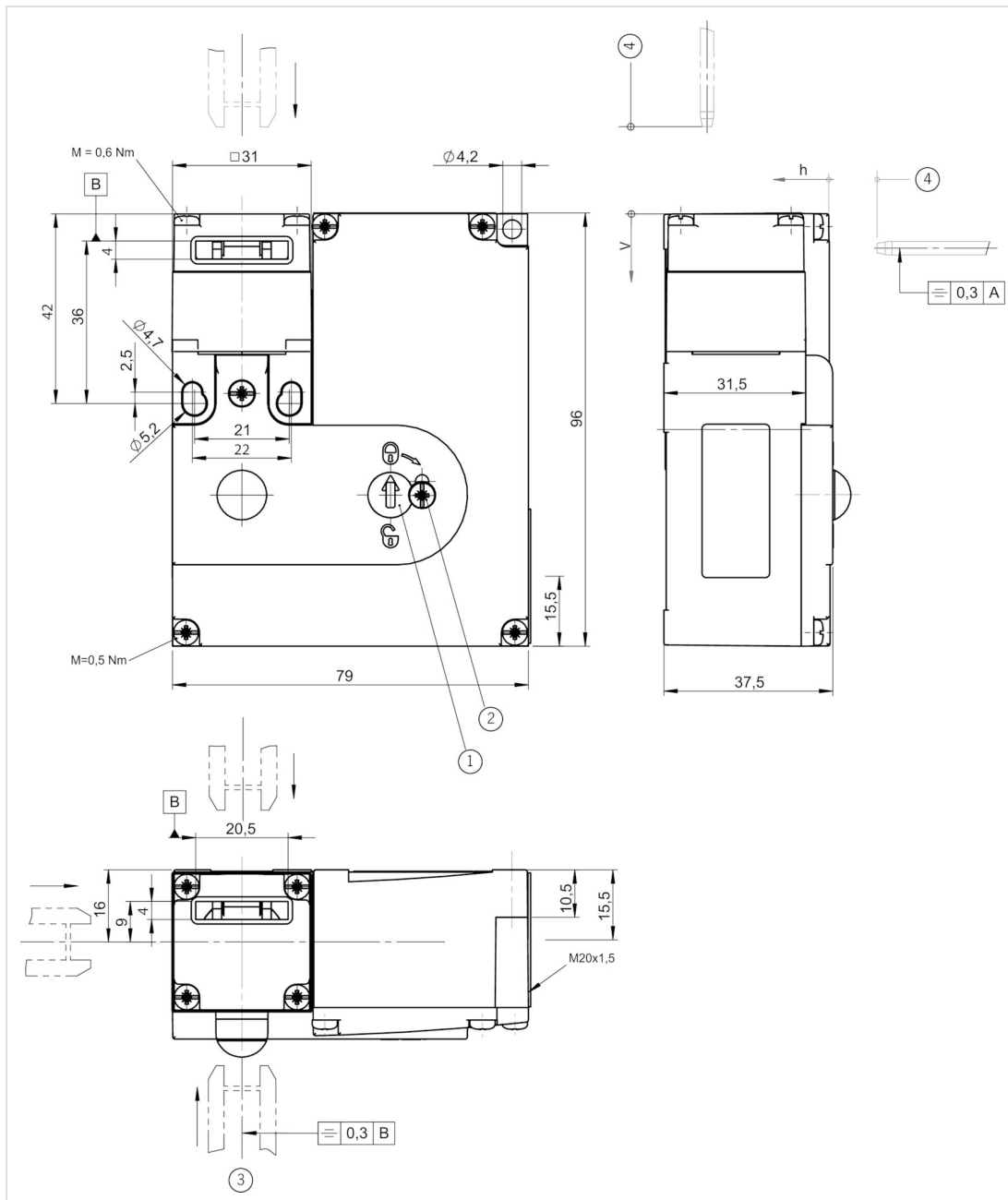
Combination available:

222 Slow-action switching contact 2 NC (→)

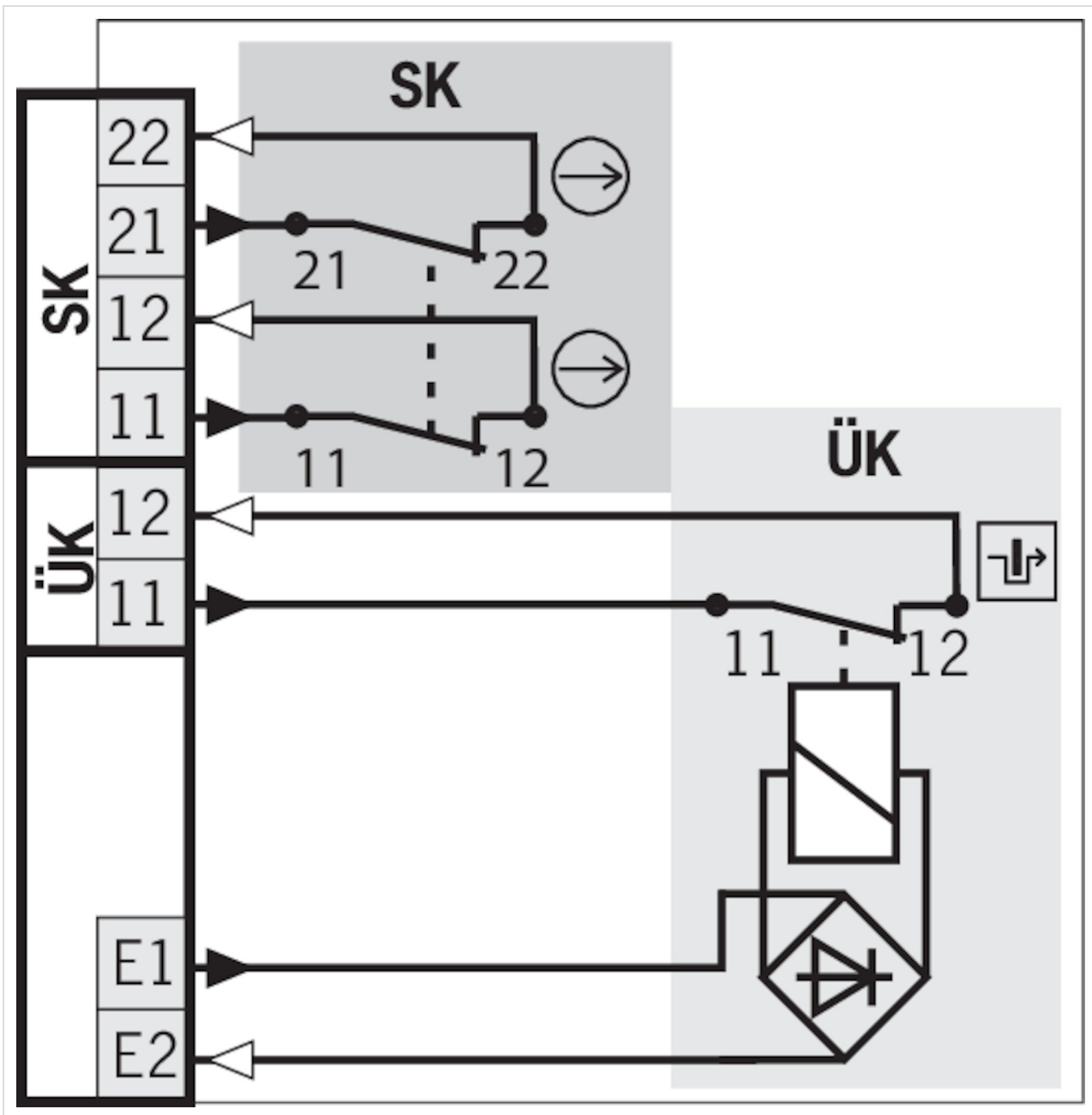
Auxiliary release

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.

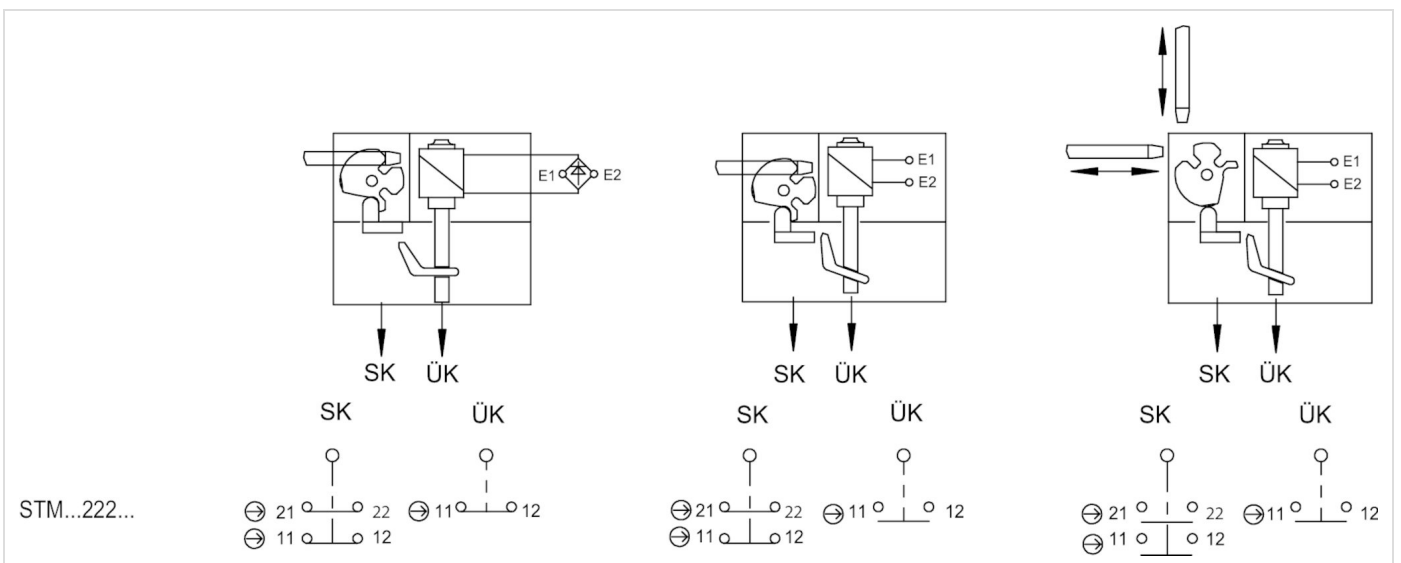
Dimension drawing



- 1 Auxiliary release
- 2 Locking screw
- 3 Actuator S standard
- 4 Insertion depth



Switching functions



Technical data

Approvals



Mechanical values and environment

Housing material	Housing	Reinforced thermoplastic
Weight	Net	0,4 kg
Ambient temperature		-20 ... 55 °C
Degree of protection		IP67
Mechanical life		2 x 10 ⁶
Contact material		Silver alloy, gold flashed
Switching principle		Slow-action switching contact
Installation orientation		Any
Number of door position positively driven contacts		2
Number of guard lock monitoring positively driven contacts		1
Connection	1 x	M20 x 1.5
Approach speed		max.20 m/min
Actuation frequency		max.1200 1/h
Guard locking principle		Closed-circuit current principle
Locking force F_{max}		2000 N
Locking force F_{Zh}		1500 N
Retention force		20 N
Extraction force		30 N
Actuating force		35 N
Insertion depth		24,5 mm

Electrical connection ratings

Thermal rated current I_{th}		4 A
Utilization category acc. 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		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
Connection rating		6 W
Solenoid duty cycle		100 %
Connection cross-section		0,34 ... 1,5 mm ²

Reliability values according to EN ISO 13849-1

	Monitoring of guard locking and the safety guard position
B10 _D	2 x 10 ⁶
	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

In combination with Actuator BETAETIGER-S-GT-SN

Mechanical values and environment

Overtravel	5 mm
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Accessories

Actuator

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



095741
BETAETIGER-S-WQT-LN

- ▶ Two safety screws included
- ▶ Actuator with rubber bush

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



095739
BETAETIGER-S-GT-LN

- ▶ Two safety screws included
- ▶ Actuator with rubber bush

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



095740
BETAETIGER-S-WQT-SN

- ▶ Two safety screws included



115073
BETAETIGER-S-W-SN-C2115

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

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



097861
BETAETIGER-S-G-SN-C2115

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

095738

- ▶ Two safety screws included



BETAETIGER-S-GT-SN

- ▶ Actuator with rubber bush

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



096844
RADIUSBETAETIGER-S-LR-LN

- ▶ Actuators made of stainless steel
- ▶ Two stainless safety screws per actuator
- ▶ For doors hinged on the right or left

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



096697
RADIUSBETAETIGER-S-OU-LN

- ▶ Actuators made of stainless steel
- ▶ Two stainless safety screws per actuator
- ▶ 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

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

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



095315
RADIUSBETAETIGER-S-OU-SN

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

Connection material

Cable glands M20x1.5, cable Ø 6-12 mm



086233
EKPM20/06 086233

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

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

Contacts

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