

ITEM 096204 TP6-4120A024SR11

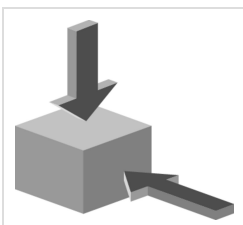
Description	Technical data	Accessories	Downloads
-------------	----------------	-------------	-----------



Features

- › Auxiliary shutdown feature on the front
- › With door unlock request contact
- › Increased horizontal overtravel
- › Plug connectors

Approach direction



- › Figure
Horizontal and vertical
Can be adjusted in 90° steps
Increased overtravel for horizontal approach direction

Solenoid operating voltage

- › AC/DC 24 V +10%, -15%

Guard locking type

TP6 Open-circuit current principle, guard locking by applying voltage to the guard locking solenoid. Release by spring force.

Switching element

4120 Slow-action switching contact 1 NC \ominus (door unlock request contact) + 1 NC \ominus + 1 NO (solenoid monitoring contact)

Auxiliary shutdown feature

When actuated, positively driven NC contacts 21-22 are opened. The safety guard remains locked. The auxiliary shutdown feature must be sealed to prevent tampering (for example with sealing lacquer).

Door unlock request contact

When the actuator is in the locked state positively driven NC contact 21-22 is opened by pulling the safety guard (6 mm actuator stroke) as a result of which a signal is forwarded to the controlling PLC. Depending on the control concept, the safety guard can be unlocked automatically - when machine components which were still running have stopped.

Approvals



Mechanical values and environment

Housing material	Reinforced thermoplastic
Weight	Net 0,5 kg
Ambient temperature	-20 ... 55 °C
Degree of protection	IP65
Mechanical life	0,5 x 10 ⁶
Contact material	Silver alloy, gold flashed
Switching principle	Slow-action switching contact
Installation position	Any
Number of door position positively driven contacts	2
Number of NO contacts	1
Connection	1 x Plug connector SR11
Approach speed	max. 20 m/min

Actuation frequency	1200 1/h
Locking force F_{max}	800 N
Locking force F_{Zh}	600 N
Retention force	10 N
Extraction force	20 N
Actuating force	10 N

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}	1,5 kV
Switching voltage	Min. at 10mA 12 V
Switching current	Min. at 24V 1 mA
Power consumption	8 W
Solenoid duty cycle	100 %

Reliability values acc. to EN ISO 13849-1

	Monitoring of guard locking and the safety guard position
B10 _D	3×10^6

in combination with Actuator BETAETIGER-P-GT

Mechanical values and environment

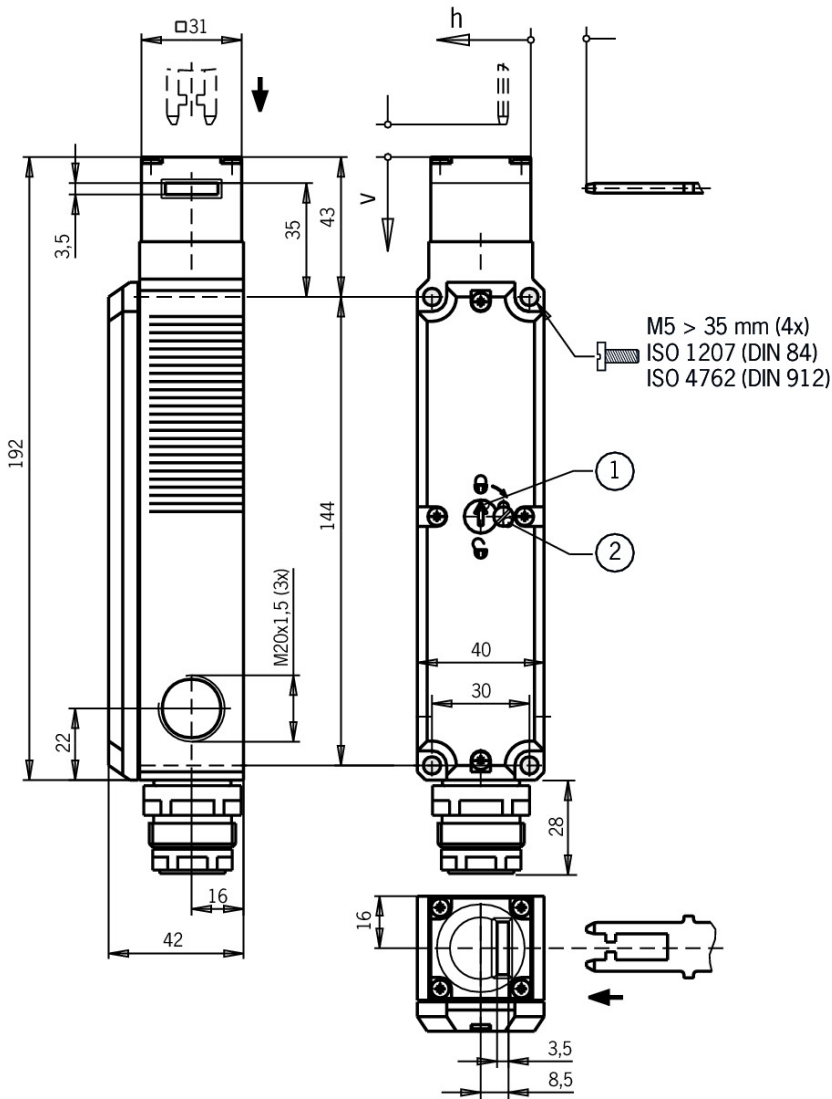
Overtravel A B C D E	2 mm
Overtravel K L M N	1,5 mm

in combination with Actuator BETAETIGER-P-GNT

Mechanical values and environment

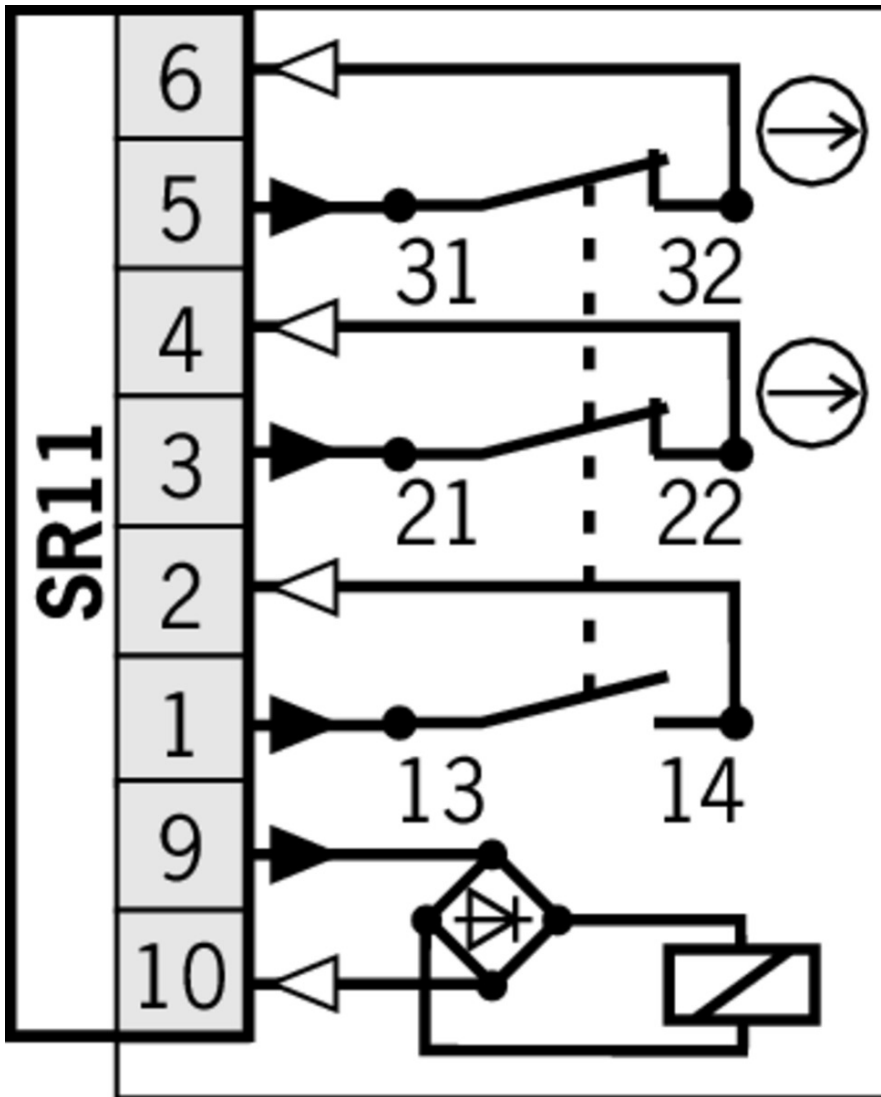
Overtravel A B C D E	7 mm
----------------------	------

Dimension drawing



Legende

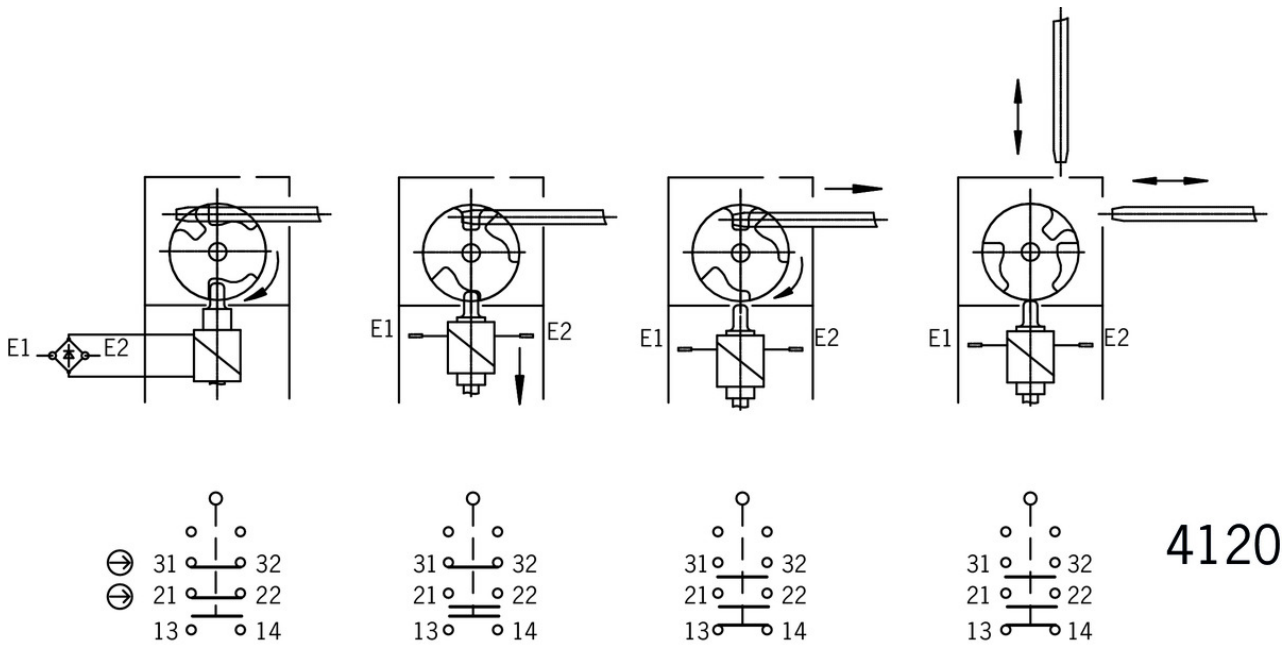
- 1 Auxiliary release
- 2 Locking screw



Legende

- Solenoid monitoring
- Door unlock request contact

Switching functions



Bolt

- ✓ Bolt BTC-T/GP... without escape release for safety switches GP and TP



106301 BTC-T/GP-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

- ✓ Bolt 0 NP/TP for safety switches NP, GP and TP



073535 RIEGEL 0 NP/TP OHNE RASTUNG

✓ Features

- › Steel bolt
- › For doors hinged on the left or right
- › Can be locked in open position with padlocks
- › Actuator included

- ✓ Bolt TP/GP... for safety switches GP and TP



084430 RIEGEL TP-A

✓ Features

- › Steel bolt
- › For doors hinged on the right
- › Can be locked in open position with padlocks
- › Actuator included



084432 RIEGEL TP-C

▼ Features

- › Steel bolt
 - › For doors hinged on the left
 - › Can be locked in open position with padlocks
 - › Actuator included
-

▼ Bolt TP-GFK for safety switches TP and GP



096616 RIEGEL TP-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 1 NP/TP for safety switches NP, GP and TP



073536 RIEGEL 1 NP/TP 1X RASTUNG ZU

▼ Features

- › Steel bolt
 - › For doors hinged on the left or right
 - › Can be locked in open position with padlocks
 - › Actuator included
 - › Detent mechanism closed position
-

Function expansion

▼ Handle for wire front release



099795 AY-HDL-099795

▼ Features

- › Suitable for all wire front releases
-

▼ Lock for auxiliary release for safety switches CTP/TP/STP



109212 SCHLOSS TP GLEICHSCHLIESSEND C2293

▼ Features

- › Identical locking
 - › Key can be removed only in “locked” position
-



086236 SCHLOSS TP GLEICHSCHLIESSEND

▼ Features

- › Identical locking
 - › Key removable in “unlocked” and “locked” positions
-



084177 SCHLOSS TP VERSCHIEDENSCHLIESSEND

▼ Features

- › Lock unique locking

- › Key removable in “unlocked” and “locked” positions

❑ Wire front release



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)



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)



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)



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)



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)



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)

❑ Release with automatic reset for safety switches CTP/TP/STP

103110 ENTRIEGELUNG RUECKSTELLEND TP/STP



Emergency unlocking for safety switches CTP/TP/STP



099877 NOTENTSPERRUNG TP/STP



Latch spring for increased retention force

076501 RASTFEDER NP/TP



Lockout bar NP/GP/TP



096105 SPERREINSATZ TP

Features

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



Built-in LED



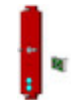
095510 EINBAULEUCHTE LED-F M20X1,5



087423 EINBAULEUCHTE LED M20X1,5



LED set



093752 TP LED SET

Features

- › LED set



Insertion funnel for safety switches NP..A/GP/TP..A



086237 EINFUEHRTRICHTER-P



Handle for escape release for safety switches TP/STP/STA



105329 FE-GRIFF

Actuator



Bent actuator for safety switches NP/GP/TP



059227 BETAETIGER-P-W

Features

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



070038 BETAETIGER-P-WT

✓ Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator
- › Actuators with rubber bushings

✓ Actuators for safety switches NP/GP/TP, increased overtravel



074570 BETAETIGER-P-GN

✓ Features

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



074576 BETAETIGER-P-GNT

✓ Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator
- › Actuators with rubber bushings

✓ Actuators for safety switches NP/GP/TP



059226 BETAETIGER-P-G

✓ Features

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



070046 BETAETIGER-P-GT

✓ Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator
- › Actuators with rubber bushings

✓ Hinged actuator top/bottom for safety switches NP/GP/TP, increased overtravel



074572 RADIUSBETAETIGER-P-OUN

✓ Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator
- › For doors hinged at top and bottom

✓ Hinged actuator top/bottom for safety switches NP/GP/TP



070050 RADIUSBETAETIGER-P-OU

✓ Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator
- › For doors hinged at top and bottom

▼ Hinged actuator left/right for safety switches NP/GP/TP



059440 RADIUSBETAETIGER-P-LR

▼ Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator
- › For doors hinged on right and left

▼ Bent actuator for safety switches NP/GP/TP, increased overtravel



074577 BETAETIGER-P-WNT

▼ Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator
- › Actuators with rubber bushings



074571 BETAETIGER-P-WN

▼ Features

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

▼ Hinged actuator left/right for safety switches NP/GP/TP, increased overtravel



074573 RADIUSBETAETIGER-P-LRN

▼ Features

- › Actuators made of stainless steel
- › Two stainless safety screws per actuator
- › For doors hinged on right and left

Mounting accessories

▼ 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

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



093457 EMP-B1

▼ Safety screws M5 x 25

073457 M5X25/V100

▼ Features

- › Safety screws M5 x 25
 - › Packaging unit 100 pieces
-

▼ Safety screws for actuators, M5 x 10

073455 M5X10-NIRO/V100 NZ/TZ

▼ Features

- › Safety screws M5 x 10
 - › Packaging unit 100 pieces
-

▼ Safety screws for safety switches M4 x 14, large head

086232 M4X14-NIRO/V100

▼ Features

- › Safety screws M4 x 14 (large head)
 - › Packaging unit 100 pieces
-

▼ Switch bracket for bolt NP/TP



073539 SCHALTERAUFNAHME TP

▼ Features

- › Switch bracket made of steel
 - › For doors hinged on the left or right
-

▼ 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
-

Connection material

▼ Plug connector SR11 for safety switches NZ and TZ

070859 SR11EF

▼ Features

- › Crimp contacts
 - › Cable optional
 - › Coding shells
-

054773 SR11WF

▼ Features

- › Crimp contacts

- › 90° angled optional
- › Cable optional
- › Coding shells

091296 SR11AM2-M20

☑ Features

- › Crimp contacts
- › Cable optional
- › Coding shells

☑ Connection cable with plug connector SR11, 5m



077629 C-M26F12-12X1,00PU05,0-MA-077629

☑ Features

- › Female plug SR11, 11-pin + PE
- › Straight plug connector
- › PUR cable
- › Cable length 5 m
- › With flying lead

☑ Connection cable with plug connector SR11, 10m



077630 C-M26F12-12X1,00PU10,0-MA-077630

☑ Features

- › Female plug SR11, 11-pin + PE
- › Straight plug connector
- › PUR cable
- › Cable length 10 m
- › With flying lead

☑ Connection cable with plug connector SR11, 15m



077631 C-M26F12-12X1,00PU15,0-MA-077631

☑ Features

- › Female plug SR11, 11-pin + PE
- › Straight plug connector
- › PUR cable
- › Cable length 15 m
- › With flying lead

☑ Connection cable with plug connector SR11, 20m



096632 C-M26F12-12X1,0PU20,0-MA-096632

☑ Features

- › Female plug SR11, 11-pin + PE
- › Straight plug connector
- › PUR cable
- › Cable length 20 m
- › With flying lead

☑ Connection cable with plug connector SR11, 25m



094749 C-M26F12-12X1,0PU25,0-MA-094749

Features

- › Female plug SR11, 11-pin + PE
- › Straight plug connector
- › PUR cable
- › Cable length 25 m
- › With flying lead

Instructions

▼ Návod k použití Bezpečnostní spínač TP...

	Doc. no.	Version	Language	Download
Betriebsanleitung Sicherheitsschalter TP...	2084123	15-12/17		5.7 MB
Manual de instrucciones Interruptores de seguridad TP...				
Mode d'emploi pour les interrupteurs de sécurité TP...				
Operating Instructions Safety Switches TP...				
Návod k použití Bezpečnostní spínač TP...	2084123	15-12/17		1.5 MB
Driftsvejledning for sikkerhedsafbryder TP...	2084123	15-12/17		1.5 MB
Manual de instruções Chave de segurança TP...	2084123	15-12/17		1.5 MB
Istruzioni di impiego dei finecorsa di sicurezza TP...	2084123	15-12/17		1.5 MB

Catalogs


















▼ Bezpečnostní spínače s plastovým pouzdem 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 pouzdem	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

Declaration of conformity

▼ EU prohlášení o shodě

Doc. no. Version Language Download

EU-Konformitätserklärung	2077153	25-02/17		 0.3 MB
Declaración UE de conformidad				
Déclaration UE de conformité				
Dichiarazione di conformità				
EU declaration of conformity				
EU prohlášení o shodě	2077153	25-02/17		 0.5 MB
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				

CAD data

CAD data for this item on TraceParts