

ITEM 087447 TP4-537A110SR6

Description	Technical data	Accessories	Downloads
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Features

- › Auxiliary release on the front
- › With door monitoring contact
- › Increased horizontal overtravel

Approach direction



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

Solenoid operating voltage

- › AC 110V +10%, -15%

Guard locking types

- TP3** Closed-circuit current principle, guard locking by spring force. Release by applying voltage to the guard locking solenoid.
- TP4** Open-circuit current principle, guard locking by applying voltage to the guard locking solenoid. Release by spring force.

Switching element

537 Slow-action switching contact 1 NC \ominus + 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

Ambient temperature	-20 ... 55 °C
Mechanical life	1 x 10 ⁶
Number of door position positively driven contacts	1
Number of NC contacts	1
Actuation frequency	1200 1/h
Locking force F _{max}	1300 N
Locking force F _{Zh}	1000 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 DC-13
Rated insulation voltage U _i	250 V
Rated impulse withstand voltage U _{imp}	2,5 kV
Power consumption	10 W
Solenoid duty cycle	100 %

in combination with Actuator BETAETIGER-P-GT

Mechanical values and environment

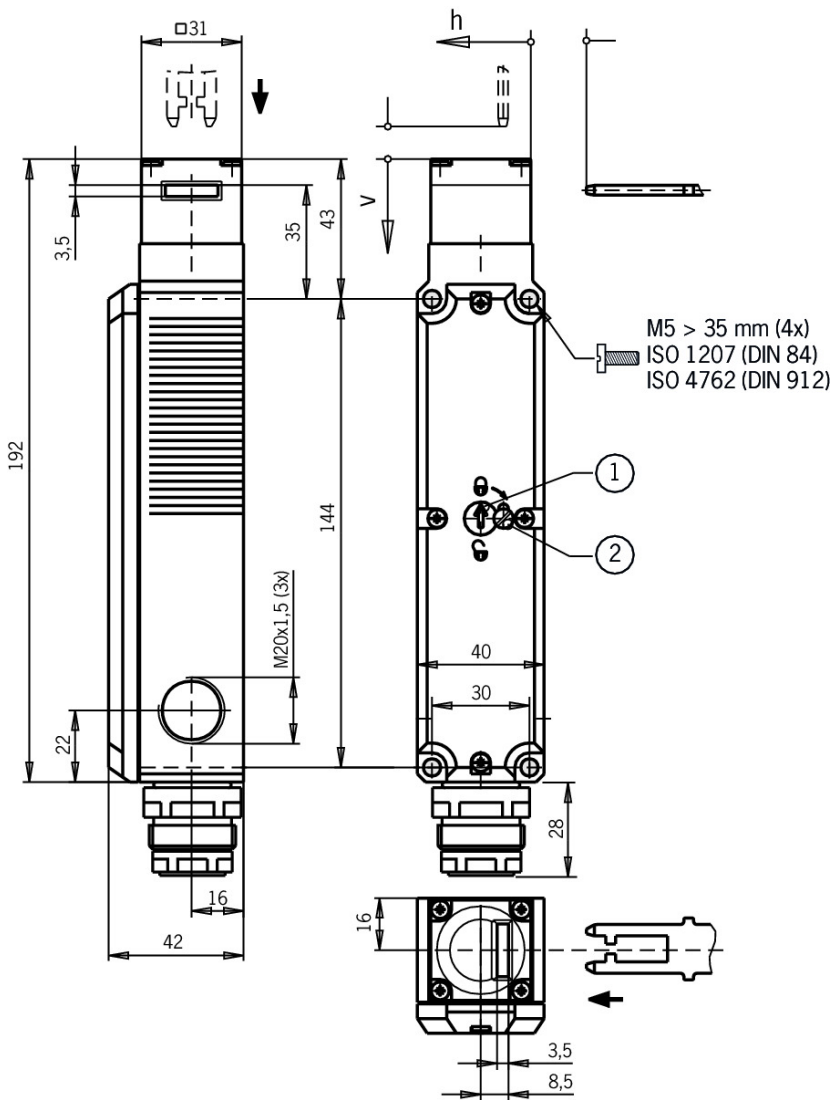
Overtravel A B C D E	2 mm
Overtravel K L M N	1,5 mm

in combination with Actuator BETAETIGER-P-GNT

Mechanical values and environment

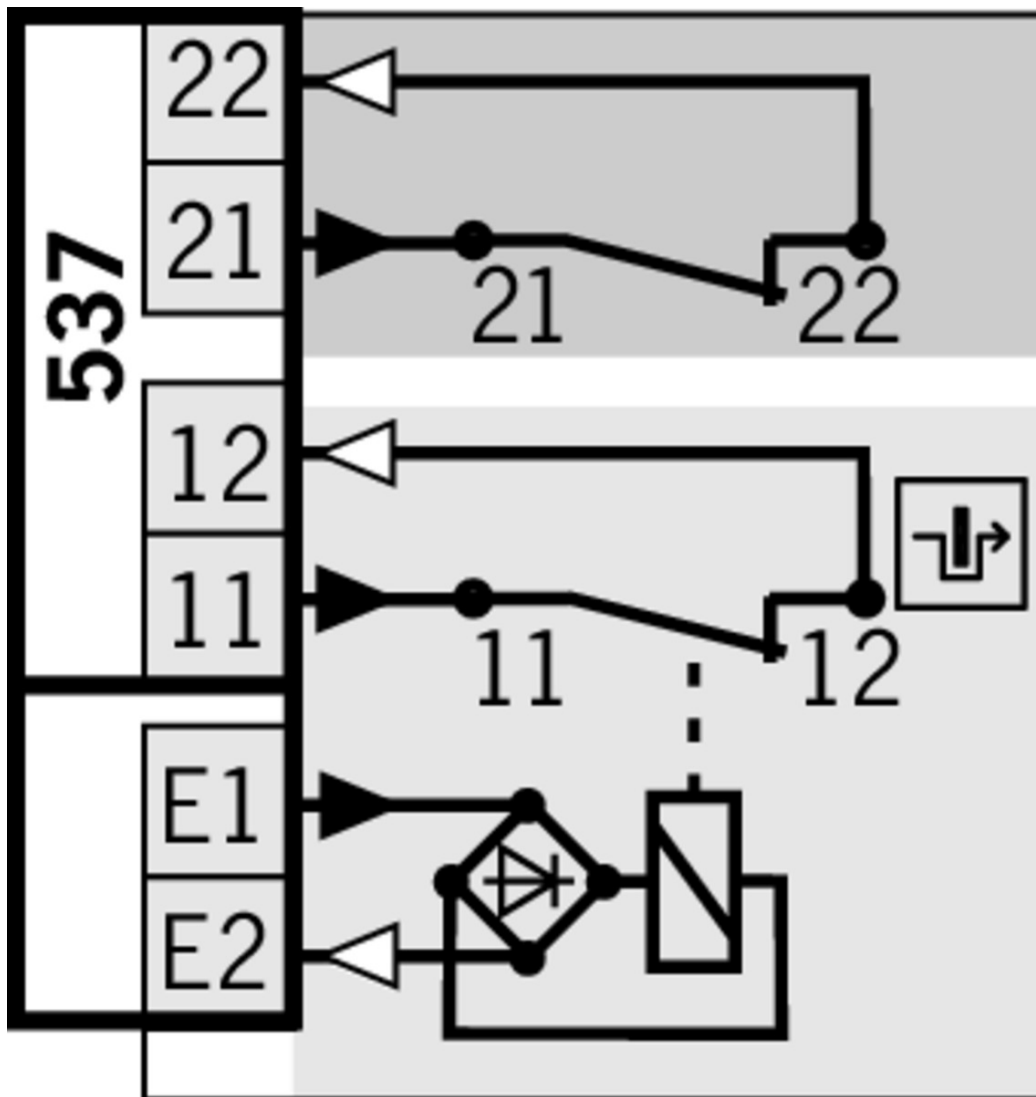
Overtravel A B C D E	7 mm
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Dimension drawing



Legende

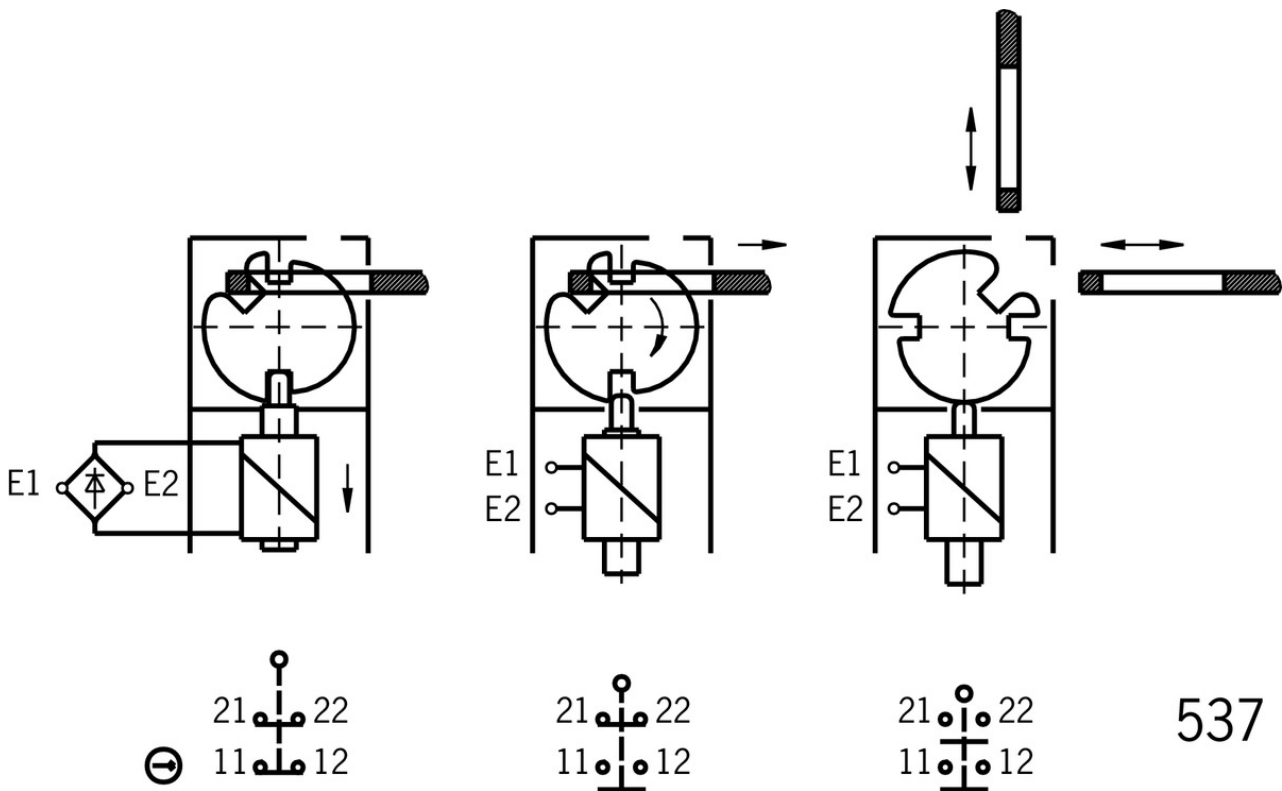
- 1 Auxiliary release
- 2 Locking screw



Legende

- Solenoid monitoring
- Door monitoring

Switching functions



537

Actuator

- ✓ 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

- ✓ 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

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

074576 BETAETIGER-P-GNT



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



074570 BETAETIGER-P-GN

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

✓ Bent actuator for safety switches NP/GP/TP



070038 BETAETIGER-P-WT

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



059227 BETAETIGER-P-W

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

✓ Actuators for safety switches NP/GP/TP



070046 BETAETIGER-P-GT

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



059226 BETAETIGER-P-G

- ✓ 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
-

✓ 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 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

Bolt

▼ 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-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

▼ 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 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
-

Function expansion

- ✔ Lockout bar NP/GP/TP



- 096105** SPERREINSATZ TP
 - ✔ Features
 - › Prevents unintentional closing of the door
 - › Can be secured with padlocks
-

- ✔ Latch spring for increased retention force

076501 RASTFEDER NP/TP

- ✔ Lock for auxiliary release for safety switches CTP/TP/STP



- 084177** SCHLOSS TP VERSCHIEDENSCHLIESSEND
 - ✔ Features
 - › Lock unique locking
 - › Key removable in “unlocked” and “locked” positions
-



- 086236** SCHLOSS TP GLEICHSCHLIESSEND
 - ✔ Features
 - › Identical locking
 - › Key removable in “unlocked” and “locked” positions
-



- 109212** SCHLOSS TP GLEICHSCHLIESSEND C2293
 - ✔ Features
 - › Identical locking
 - › Key can be removed only in “locked” position
-

- ✔ Emergency unlocking for safety switches CTP/TP/STP

099877 NOTENTSPERRUNG TP/STP



Built-in LED



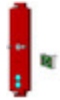
087423 EINBAULEUCHTE LED M20X1,5



095510 EINBAULEUCHTE LED-F M20X1,5



LED set



093752 TP LED SET

Features

› LED set



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



086237 EINFUEHRTRICHTER-P



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



103110 ENTRIEGELUNG RUECKSTELLEND TP/STP



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)



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)



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)



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)

✔ Handle for wire front release



099795 AY-HDL-099795

✔ Features

- › Suitable for all wire front releases

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



105329 FE-GRIFF

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



093457 EMP-B1

✔ 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

▼ 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 SR6**013176** SR6EF**▼** Features

- › Crimp contacts
 - › Coding shells
-

024999 SR6WFPG11R**▼** Features



- › Socket crimp contacts
 - › 6-pin+PE
 - › Contact carrier can be adjusted in 7 outlet directions
-

013178 SR6K

▼ Features

- › Coding for plug connector SR6
 - › Coding shells
-

087180 SR6AM2-M20

▼ Features

- › Crimp contacts
 - › Male socket
-

▼ Connection cable with plug connector SR6, 5m



077632 C-M26F07-07X1,0PU05,0-MA-077632

▼ Features

- › Female plug SR6, 6-pin + PE
 - › Straight plug connector
 - › PUR cable
 - › Cable length 5 m
 - › With flying lead
-

▼ Connection cable with plug connector SR6, 10m



077633 C-M26F07-07X1,0PU10,0-MA-077633

▼ Features

- › Female plug SR6, 6-pin + PE
 - › Straight plug connector
 - › PUR cable
 - › Cable length 10 m
 - › With flying lead
-

▼ Connection cable with plug connector SR6, 15m



077634 C-M26F07-07X1,0PU15,0-MA-077634

▼ Features

- › Female plug SR6, 6-pin + PE
 - › Straight plug connector
 - › PUR cable
 - › Cable length 15 m
 - › With flying lead
-

▼ Connection cable with plug connector SR6, 20m



098128 C-M26F07-07X1,0PU20,0-MA-098128













▼ Features

- › Female plug SR6, 6-pin + PE
- › Straight plug connector
- › PUR cable

- › Cable length 20 m
- › With flying lead













Instructions

▼ Návod k použití Bezpečnostní spínač TP...

	Doc. no.	Version	Language	Download
Betriebsanleitung Sicherheitsschalter TP... Manual de instrucciones Interruptores de seguridad TP... Mode d'emploi pour les interrupteurs de sécurité TP... Operating Instructions Safety Switches TP...	2084123	15-12/17	   	 5.7 MB
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 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

Declaration of conformity

▼ EU prohlášení o shodě

	Doc. no.	Version	Language	Download
EU-Konformitätserklärung Declaración UE de conformidad Déclaration UE de conformité Dichiarazione di conformità EU declaration of conformity	2077153	25-02/17	    	 0.3 MB

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