

ITEM 084270 TP3-4141A024M

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/DC 24 V +10%, -15%

Guard locking type

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

Switching element

4141 Slow-action switching contact 2 NC \rightarrow + 2 NC \rightarrow (door monitoring contacts)

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	Reinforced thermoplastic
Weight	Net 0,5 kg
Ambient temperature	-20 ... 55 °C
Degree of protection	IP67
Mechanical life	1 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	4
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}	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 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

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

Mechanical values and environment

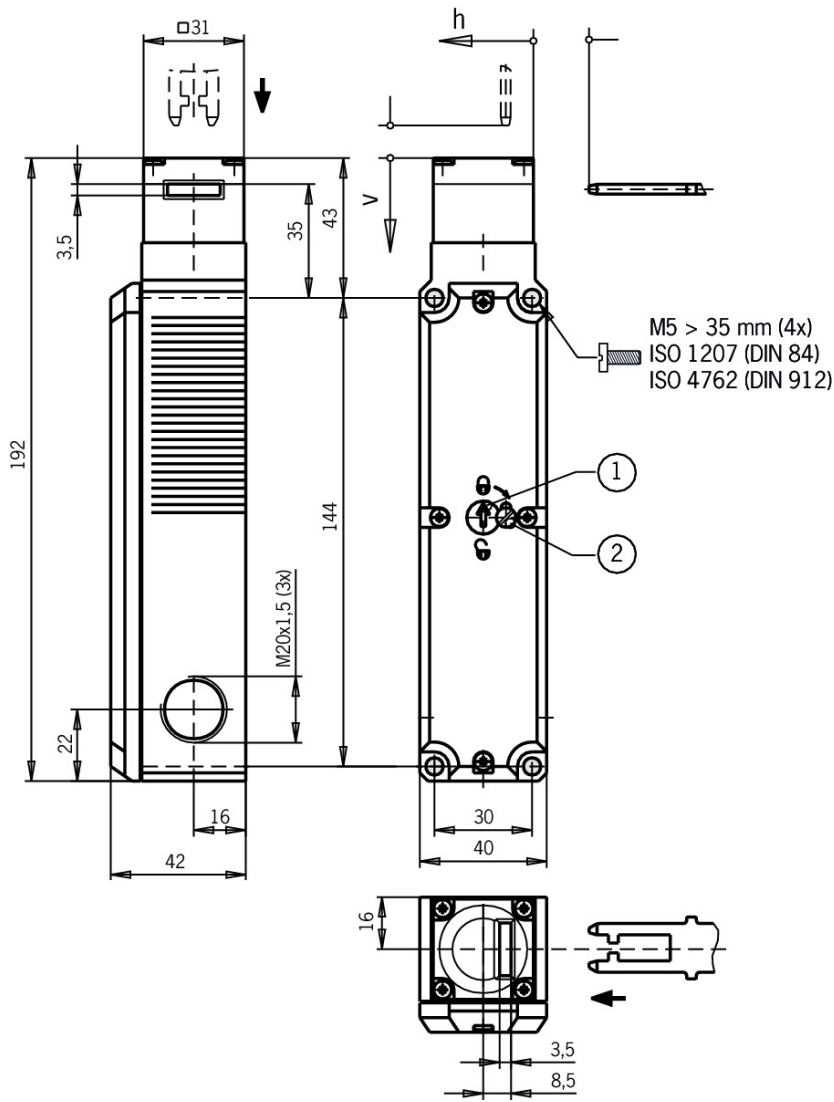
Overtravel A B C D E	2 mm
Overtravel K L M N	1,5 mm

in combination with Actuator BETAETIGER-P-GNT

Mechanical values and environment

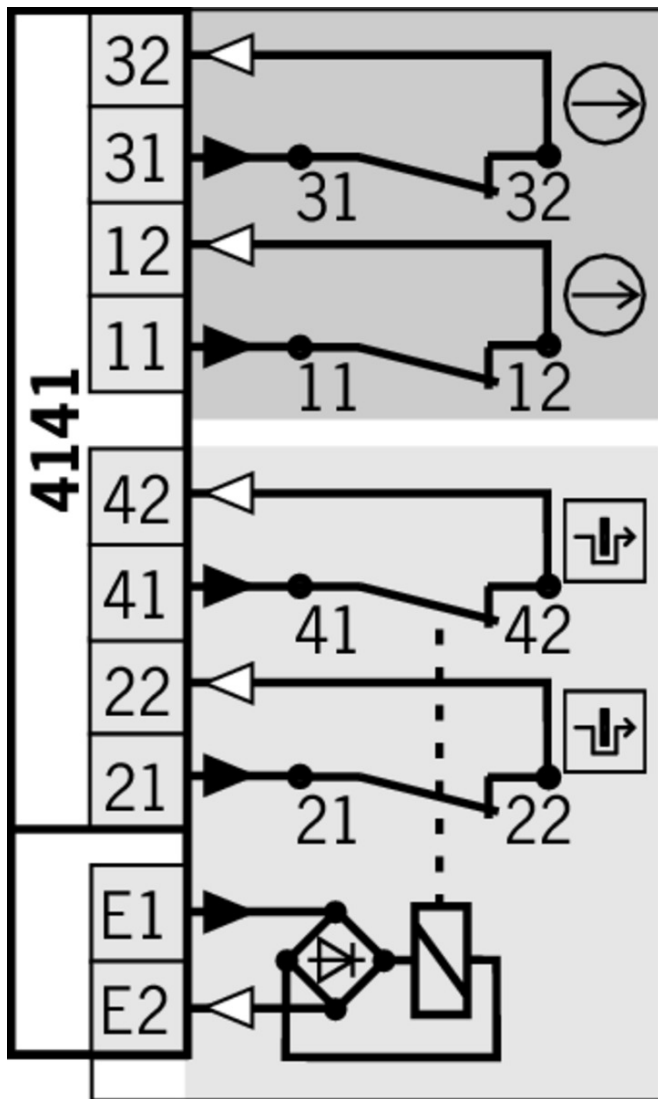
Overtravel A B C D E	7 mm
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Dimension drawing





Legende

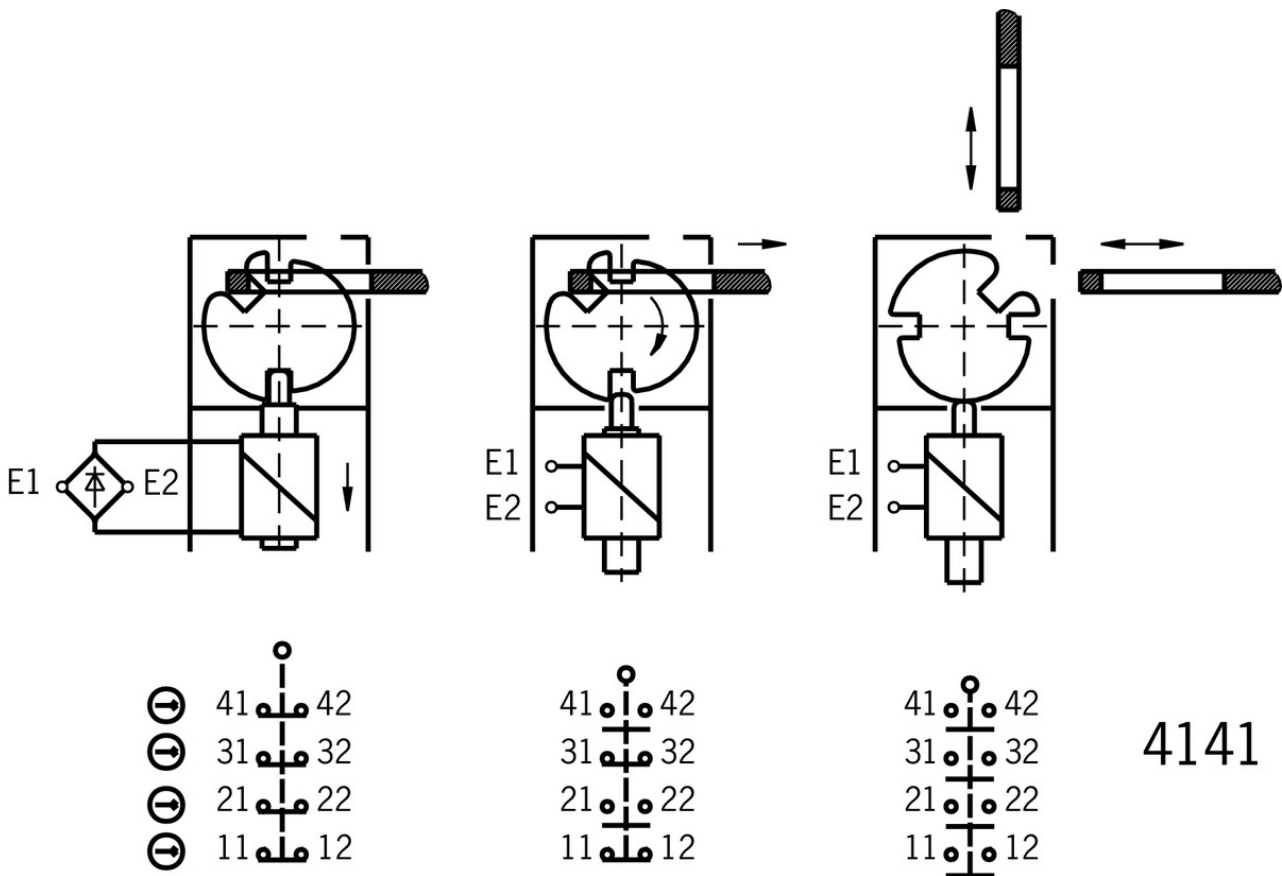
- 1 Auxiliary release
- 2 Locking screw



Legende

-  Solenoid monitoring
-  Door monitoring

Switching functions



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
-

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



074571 BETAETIGER-P-WN

▼ Features

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



074577 BETAETIGER-P-WNT

▼ Features

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

▼ 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 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
-

▼ 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, 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
-

Bolt

▼ Bolt TP/GP... for safety switches GP and TP



084432 RIEGEL TP-C

▼ Features

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



084430 RIEGEL TP-A

▼ Features

- › Steel bolt
 - › For doors hinged on the 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 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-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 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

▼ 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

▼ 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)

✓ Built-in LED



087423 EINBAULEUCHTE LED M20X1,5



095510 EINBAULEUCHTE LED-F M20X1,5

- ▼ Latch spring for increased retention force

076501 RASTFEDER NP/TP

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



086237 EINFUEHRTRICHTER-P

- ▼ LED set



093752 TP LED SET

- ▼ Features

- › LED set
-

- ▼ Lockout bar NP/GP/TP



096105 SPERREINSATZ TP

- ▼ Features

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

- ▼ 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-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

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



093458 EMP-B2

- ▼ 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










- ▼ Cable glands M20x1.5



086233 EKPM20/06 086233

Instructions

Operating Instructions Safety Switches TP...

	Doc. no.	Version	Language	Download
Betriebsanleitung Sicherheitsschalter TP... Operating Instructions Safety Switches TP... Manual de instrucciones Interruptores de seguridad TP... Mode d'emploi pour les interrupteurs de sécurité TP... Istruzioni di impiego dei finecorsa di sicurezza TP...	084123	14-12/14	    	 7.1 MB
Návod k použití Bezpečnostní spínač TP...	084123	14-12/14		 2.1 MB
Driftsvejledning for sikkerhedsafbryder TP...	084123	14-12/14		 1.5 MB
Instruções de operação das chaves de segurança TP...	084123	14-12/14		 1.5 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

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