

ITEM 103339 TP3-4141A024RC18EXT1

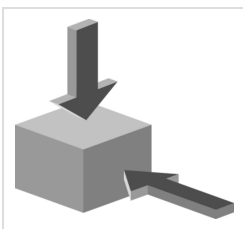
Description	Technical data	Accessories	Downloads
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Features

- › Auxiliary release on the front
- › Pushbutton and cover for indicators
- › With door monitoring contact
- › Increased horizontal overtravel
- › Plug connector

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%

Cover for indicators

A cover for indicators (1 LED, green) is available for the following voltage ranges:

› DC 24 V +10%, -15%

Pushbutton

› Black push button

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 ⊕ + 2 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	Reinforced thermoplastic
Weight	
	Net 0,5 kg
Ambient temperature	-20 ... 55 °C
Degree of protection	IP54
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	2
Number of guard lock monitoring positively driven contacts	2

Connection	1 x	Built-in connector RC18 (18-pin)
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 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 %
Connection cross-section		0,34 ... 1,5 mm ²

Miscellaneous

Additional feature		
	1 x cover for indicators	Green [1]
	1 x push button	Black [2]

Reliability values acc. 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

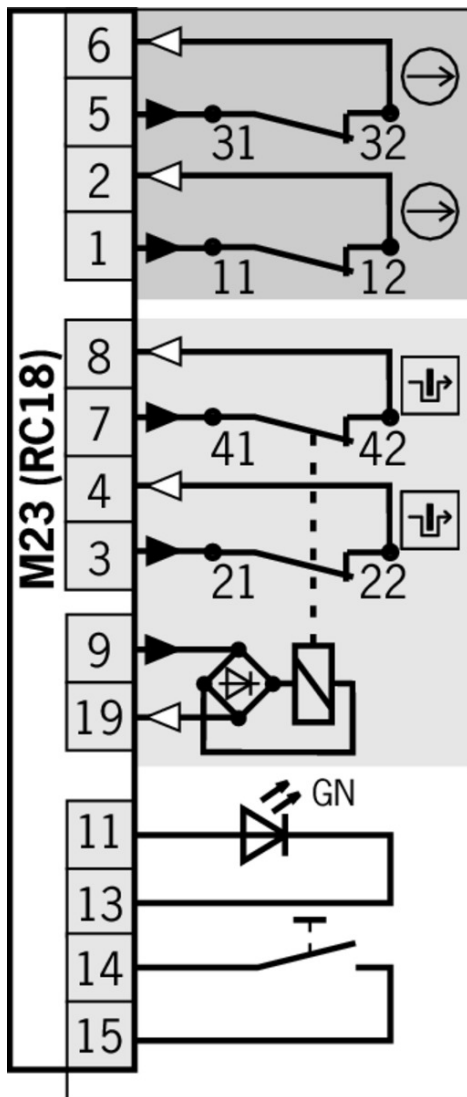
Overtravel A B C D E	7 mm
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[1] 24V DC



[2] 24V (breaking capacity max. 250mW)

Dimension drawing

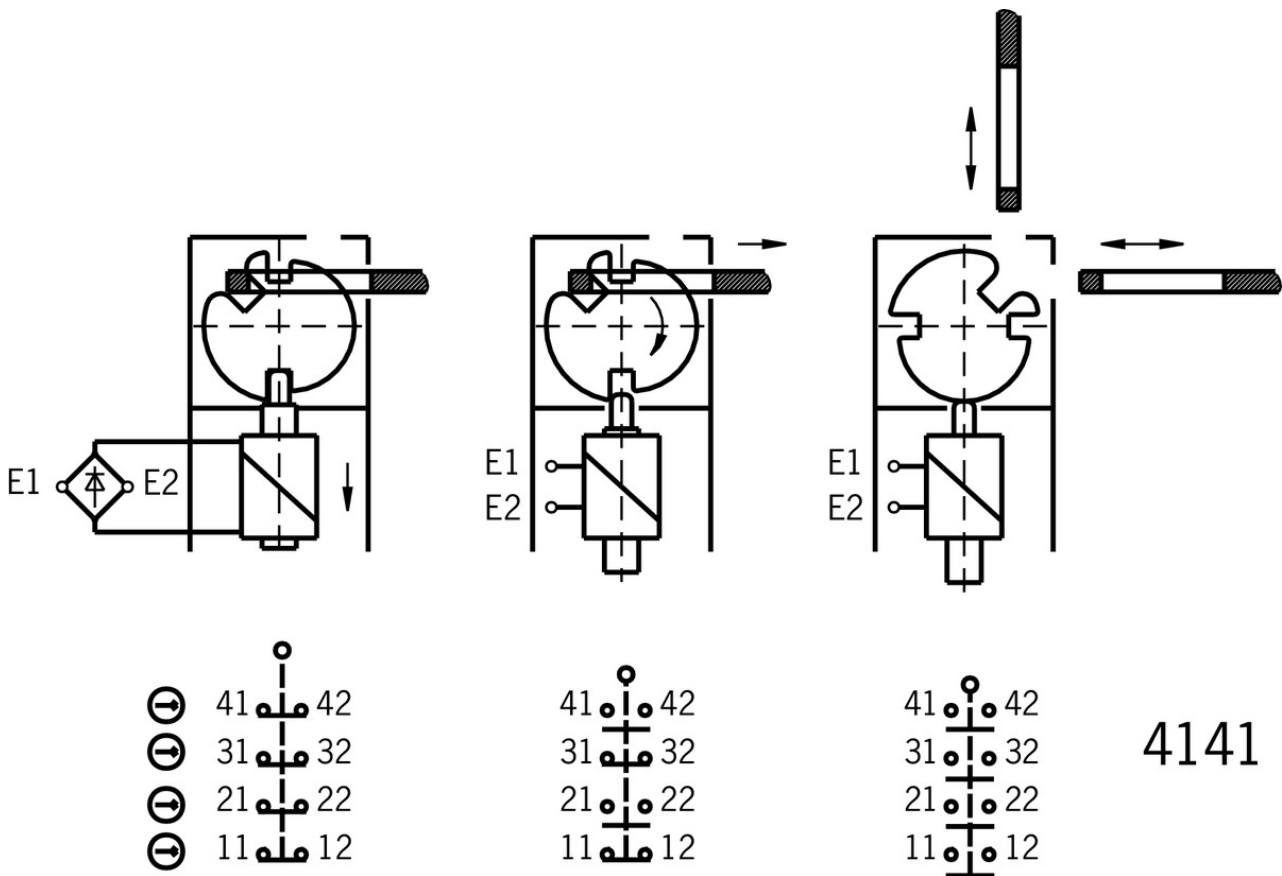
4141 EXT1



Legende

-  Solenoid monitoring
-  Door monitoring

Switching functions



Actuator

- 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

- 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
-

▼ 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
-

▼ 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
-

▼ 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

Function expansion

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



086237 EINFUEHRTRICHTER-P

- ▼ LED set



093752 TP LED SET

▼ Features

- › LED set

- ▼ Built-in LED



087423 EINBAULEUCHTE LED M20X1,5



095510 EINBAULEUCHTE LED-F M20X1,5

- ▼ 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

- ✔ 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)

- ✔ Handle for wire front release



099795 AY-HDL-099795

- ✔ Features
 - › Suitable for all wire front releases

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

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

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 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	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				