

ITEM 082280 NP1-648AS-M

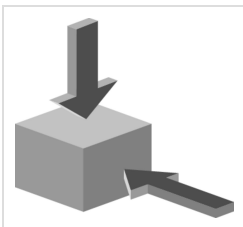
Description	Technical data	Accessories	Downloads
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Features

- › Mounting to DIN EN 50047
- › Cable entry M20 x 1.5

Approach direction



- › Figure
Horizontal and vertical
Can be adjusted in 90° steps

Switching element

648 Slow-action switching contact 2 NC ⊕ + 1 NO

Approvals



Mechanical values and environment

Housing material	Reinforced thermoplastic
Weight	
Net	0,5 kg
Ambient temperature	-20 ... 80 °C
Degree of protection	IP67
Mechanical life	1×10^6
Contact material	Silver alloy, gold flashed
Switching principle	Slow-action switching contact
Mounting method	Mounting according to EN50047
Installation position	Any
Number of door position positively driven contacts	2
Number of door position NO contacts	1
Connection	
	1 x M20 x 1.5
Approach speed	
max.	20 m/min
Actuation frequency	7000 1/h
Retention force	2 N
Extraction force	15 N
Actuating force	5 N
Insertion depth	
Horizontal	28 mm
Vertical	29,5 mm

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
Short circuit protection according to IEC 60269-1	
(Fuse)	4A gG
Rated insulation voltage U_i	400 V
Rated impulse withstand voltage U_{imp}	2,5 kV
Switching voltage	
Min. at 10mA	24 V
Switching current	

	Min. at 24V	30 mA
Connection cross-section		0,34 ... 1,5 mm ²

Reliability values acc. to EN ISO 13849-1

	Monitoring of the safety guard position
B10 _D	3 x 10 ⁶

in combination with Actuator BETAETIGER-P-GT

Mechanical values and environment

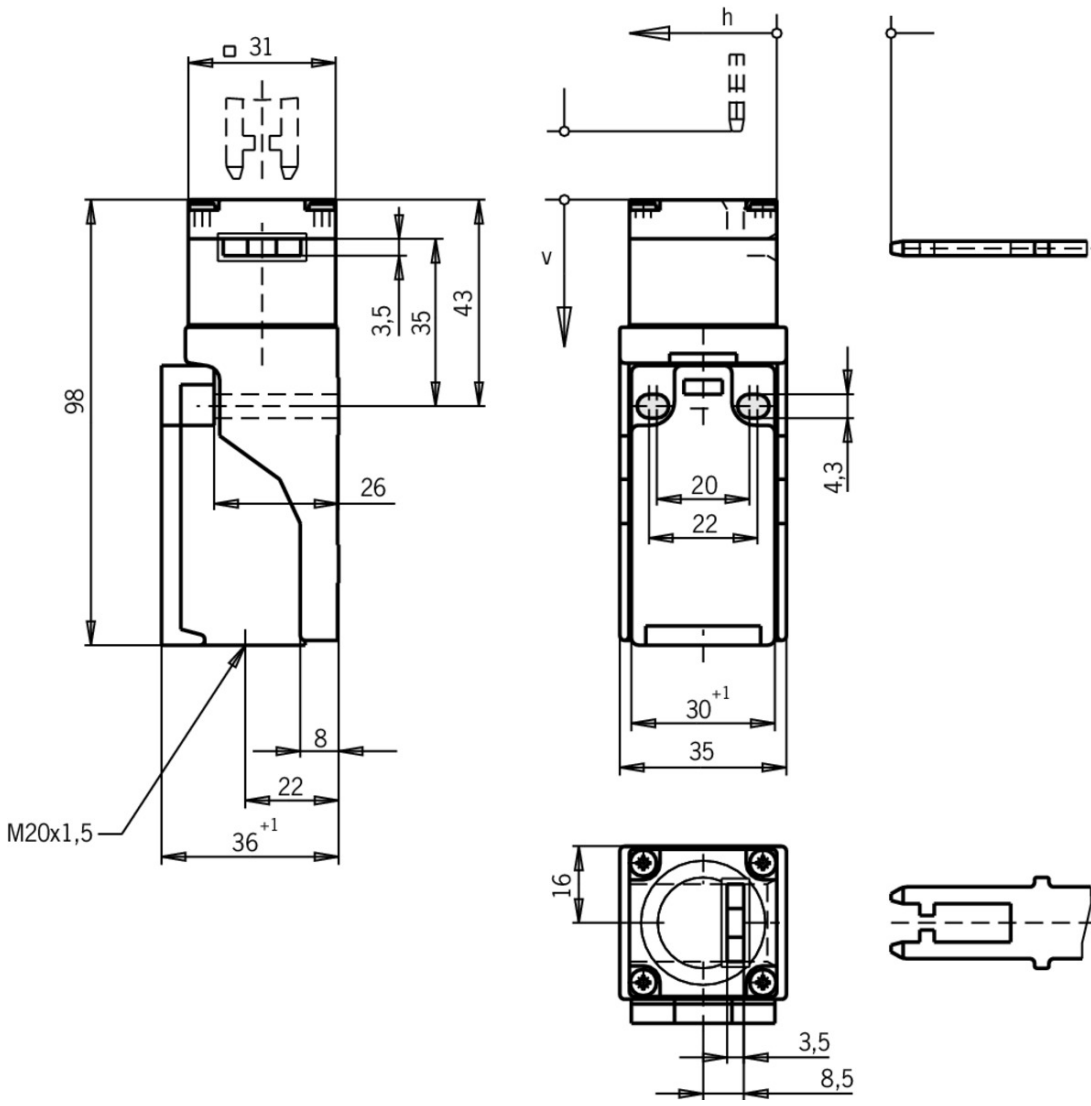
Overtravel A B C D E	Horizontal	2 mm
Overtravel K L M N	Vertical	1,5 mm

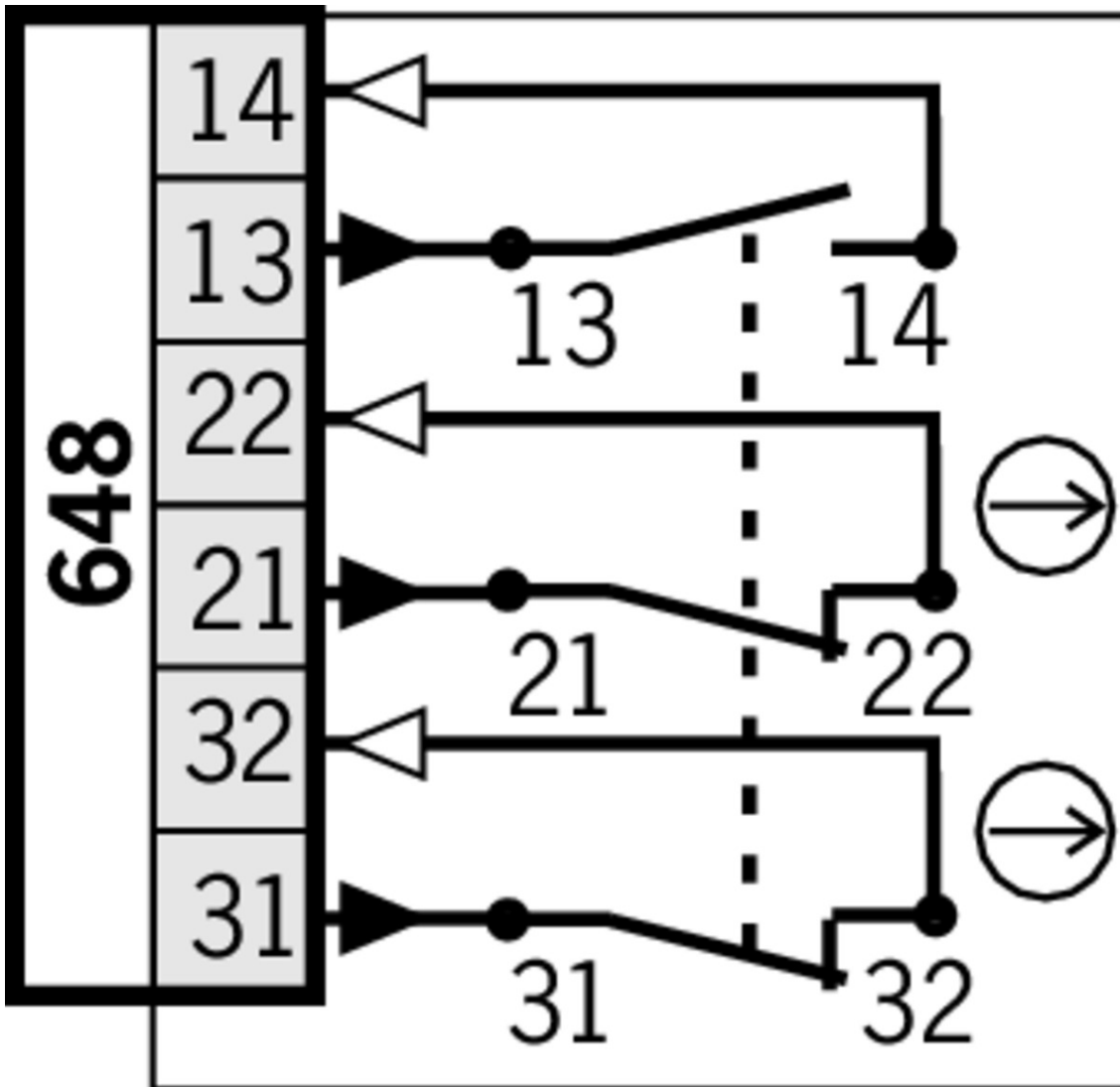
in combination with Actuator BETAETIGER-P-GNT

Mechanical values and environment

Overtravel A B C D E	Horizontal	7 mm
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Dimension drawing





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 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

Mounting accessories

- ▼ Mounting plates EMP-SC for safety switches NM, NP...AS and NZ



085753 EMP-SC

- ▼ Features

- › For vertical and horizontal mounting of safety switches NM, NP...AS and NZ
-

- ▼ 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



073538 SCHALTERAUFNAHME NP

- ▼ Features

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

Function expansion

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



086237 EINFUEHRTRICHTER-P

- ▼ Adapter NP-K

074578 ADAPTER NP-K



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

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



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 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
-

▼ 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
-

▼ 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, 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

Connection material

▼ Cable glands M20x1.5



086233 EKPM20/06 086233

Instructions

▼ Betriebsanleitung Sicherheitsschalter NP...

	Doc. no.	Version	Language	Download
Betriebsanleitung Sicherheitsschalter NP...	083684	07-10/15		2.0 MB
Manual de instrucciones Interruptores de seguridad NP...				
Mode d'emploi Interrupteur de sécurité NP...				
Istruzioni di impiego Finecorsa di sicurezza NP...				
Operating Instructions Safety Switch NP...				

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