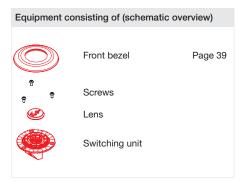
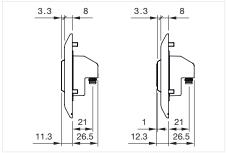
Single side pushbutton 56 Universal



Each Part Number listed below includes all the black components shown in the 3D-drawing.

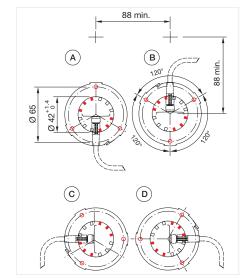
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]



The preview is based on a sample product. This can differ from your current configuration.



Mounting cut-outs [mm]

- A = Cable exit bottom
- B = Cable exit top
- C = Cable exit left
- D = Cable exit right

Additional information

- Laser engraving on lens possible
- 14 standard symbols
- ISO 7000 symbols on request
- Other symbols available on request (minimum order quantity 50 pcs.)
- Standard device plug M8×1, 6-pole
- User-friendly, large Ø 33 mm actuating surface
- Highly visible LED illumination green/red
- Operating voltage 10-30 VDC
- Scope of delivery without cable
- Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at www.eao.com/downloads



Switching unit, without lens, without front bezel

Housing colour	Housing material	Part No.	Wiring diagram	Com- ponent layout
□ Black	Plastic	56-1520.0000	441	106

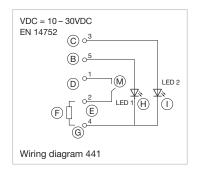
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56 Front mounting

Lens aluminium	Artikel-No.	
□ without symbol	56-4.00001	

□ with symbol, black, laser engraved	00	Ġ.	(4)	(3)	(1)	SOS
	☐ Part No. 56-6.00001	□ Part No. 56-6.00002	□ Part No. 56-6.00003	□ Part No. 56-6.00004	□ Part No. 56-6.00005	□ Part No. 56-6.00006
	i	0	Power	Power	Start	STOP
	☐ Part No. 56-6.00007	□ Part No. 56-6.00008	□ Part No. 56-6.00009	□ Part No. 56-6.00010	□ Part No. 56-6.00011	□ Part No. 56-6.00012
		LIFT				
	☐ Part No. 56-6.00013	☐ Part No. 56-6.00014				
□ with symbol plastic, black raised						
	□ Part No. 56-1.00001	□ Part No. 56-2.00001	□ Part No. 56-3.00001			

Wiring diagrams



Legend

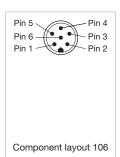
B = VDC illumination green

D = VDC illumination red
D = VDC
E = Switch (not potential-free)
F = Load (max. 250 mA)
G = 0 V

H = Illumination green
I = Illumination red

M = High Side Switch

Component layouts



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Pin Assignment Front View M8 male A-Coding 6 Pin according to EN 61076-2-104

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Pushbutton 56 Universal

Single side pushbutton with M8×1 connector, 6-pin

Switching system

The Series 56 Universal pushbutton is equipped with an electronic high side switch, is short circuit proof and overload protected. In case of over current the switch opens automatically (protection against destruction). The pushbutton is not potential-free.

Material

Lens

Aluminium, Symbol Plastic

Plastic

Front bezel

Switch housing

Plastic

Mechanical characteristics

Terminals Device plug M8×1, 6-pin (according to EN 61076-2-104)

For locking the cable plug connection, the

thread ring "hand-tight" (approx. 0.5 Nm) tightened.

Suitable for screw locking (cable side),

Snap-in locking (cable side) with reduced IP protection class.

Cable recommendation 6-pole with coupling socket M8×1 straight

(according to EN 61076-2-104)

Fixing screws

Single side pushbutton for front mounting M4 × 8 mm

Tightening torque

Screws for one-sided button for

front mounting 0.8...1 Nm

Key (mounting and dismantling)

Inside 6-kt Width across flats 2.5 mm

Actuating force max. 15 N

Actuating travel

~0.5 mm

Mechanical life

>5 million switching cycles

Electrical characteristics

Standby, 6 lighting points green

6 lighting points red

Illumination

Optical switching indicator (wiring diagram according to EN 14752)

Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the

Operating voltage 24 VDC

Tolerance range -30 % ... +25 %

Current consumption < 50 mA

Devices correspond

illumination.

EN 50155 EN 14752

EN 45545

EN 61373

EMV

EN 61000-6-2

EN 61000-6-3

EN 50121-3-2

ESD according to EN 61000-4-2 ±20 kV

Regulation No. EMV 06 (radio compatibility of Deutsche Bahn)

Operating voltage 10-30 VDC

Switching current max. 250 mA

min. 10 µA

Quiescent current

<10 µA @ 24 VDC

Note: Only pin 1 (VDC) and pin 4 (0 V) connected

Electric strength 4000 VAC, 50 Hz, 1 minute, between all terminals and

mounting plate/front element

Ambient conditions

Storage temperature -45°C...+90°C

Operating temperature -45°C...+85°C

Protection degree

IP66, IP67 front side

IP65 rear side with device plug M8×1 straight, 6-pin with snap-in locking (cable side)

IP67 rear side with device plug M8×1 straight, 6-pin with screw locking (cable side)

Impact resistance

IK07

Climate resistance

Damp heat, cyclic

48 hours, +25 °C/97 %, +55 °C/93 % relative humidity, according to EN IEC 60068-2-30

Damp heat, state 56 days, +40°C/93% relative humidity, according to EN IEC 60068-2-78

Rapid change of temperature 5 cycles, -45°C...+90°C, according to EN IEC 60068-2-14

Shock resistance

Semi-sinusoidal

500 m/s², pulse width 11 ms, 6 shocks/axis, according to DIN EN 60068-2-27

Vibration strength

(sinusoidal)

max. 100 m/s 2 from 10 Hz ... 500 Hz, according to

EN IEC 60068-2-6

Broad band noise according to EN 61373 class 1B 7.9 m/s² 5 h per axis, according to EN IEC 60068-2-6

Approvals

Conformities

CE 2014/30/EU (EMC) 1300/2014/EU (TSI PRM) 2011/65/EU (RoHS)