Characteristics

The compact 8 mm Series 18 is especially suited for:

- Flush design
- Raised design
- PCB (with adaptor)

Functions

The Series 18 incorporates the following functions:

- Indicator
- Pushbutton
- Illuminated pushbutton

Market segments

The EAO Series 18 is especially suited for applications in the segments:

- Audio and video
- Laboratory and measuring equipment

Please refer to the EAO website to obtain detailed information regarding this series **www.products.eao.com** Configure a product to your exact needs and request a quotation.



Overview	
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18 Flush design

Indicator, IP 40



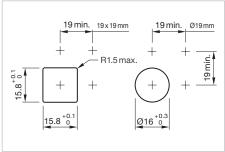
Product can differ from the current configuration.

4 max.

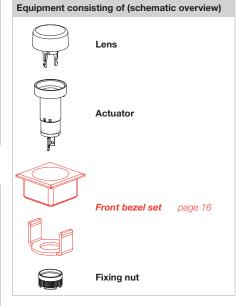
Dimensions [mm]

Additional Information

- For front dimensions 19 x 19 mm or Ø 19mm
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination
- The series resistance for LEDs need to be determined and integrated by customers.



Mounting cut-outs [mm]



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.

LED colour	Forward voltage typ.	Operating voltage	Operation	Lens	Terminal	Part No.	Compo- nent layout	Wiring	Weight
1	gri								
•	Indicator act	tuator							
red	Indicator act	customer-specific	10 mA	Plastic red translucent	Solder	18-080.0052L	1	1	0.002 kg
			10 mA	Plastic red translucent Plastic yellow translucent	Solder	18-080.0052L 18-080.0054L	1 1	1	
white	2.0 VDC @ 20 mA	customer-specific					1 1 1	1 1 1	0.002 kg
white	2.0 VDC @ 20 mA 3.0 VDC @ 20 mA	customer-specific	10 mA	Plastic yellow translucent	Solder	18-080.0054L	1 1 1	1 1 1 1 1	0.002 kg
white	2.0 VDC @ 20 mA 3.0 VDC @ 20 mA	customer-specific customer-specific customer-specific	10 mA 2 mA	Plastic yellow translucent Plastic green translucent	Solder Solder	18-080.0054L 18-080.0055L	1 1 1 1	1 1 1 1 1 1	0.002 kg 0.002 kg
red white green	2.0 VDC @ 20 mA 3.0 VDC @ 20 mA	customer-specific customer-specific customer-specific 12 VDC ±10 %	10 mA 2 mA 10 mA	Plastic yellow translucent Plastic green translucent Plastic red translucent	Solder Solder Solder	18-080.0054L 18-080.0055L 18-081.0052L	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	0.002 kg 0.002 kg 0.002 kg 0.002 kg 0.002 kg

LED colour	Forward voltage typ.	Operating voltage	Operation	Lens	Terminal	Part No.	Compo- nent layout	Wiring diagram	Weight
O B	Indicator act	tuator							
red	2.0 VDC @ 20 mA	customer-specific	10 mA	Plastic red translucent	Solder	18-060.0052L	1	1	0.002 kg
white	3.0 VDC @ 20 mA	customer-specific	10 mA	Plastic yellow translucent	Solder	18-060.0054L	1	1	0.002 kg
green	3.2 VDC @ 20 mA	customer-specific	2 mA	Plastic green translucent	Solder	18-060.0055L	1	1	0.002 kg
		12 VDC ±10 %	10 mA	Plastic red translucent	Solder	18-061.0052L	1	1	0.002 kg
			10 mA	Plastic yellow translucent	Solder	18-061.0054L	1	1	0.002 kg
			2 mA	Plastic green translucent	Solder	18-061.0055L	1	1	0.002 kg
		24 VDC ±10 %	10 mA	Plastic red translucent	Solder	18-062.0052L	1	1	0.002 kg
			10 mA	Plastic yellow translucent	Solder	18-062.0054L	1	1	0.002 kg
			2 mA	Plastic green translucent	Solder	18-062.0055L	1	1	0.002 kg

The component layouts you will find from page 20

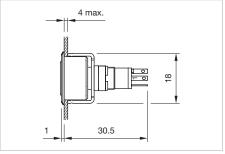


18 Flush design

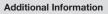
Pushbutton, IP 40



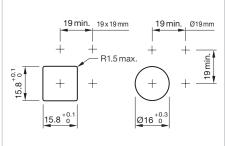
Product can differ from the current configuration.



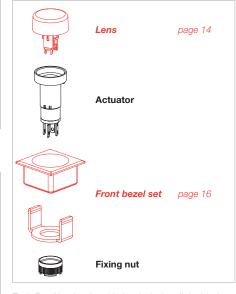
Dimensions [mm]



- For front dimensions 19 x 19 mm or Ø 19mm
- +/- terminals are not connected



Mounting cut-outs [mm]



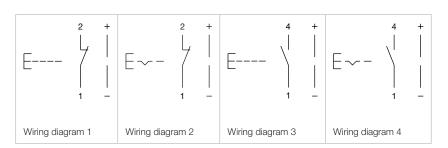
Equipment consisting of (schematic overview)

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

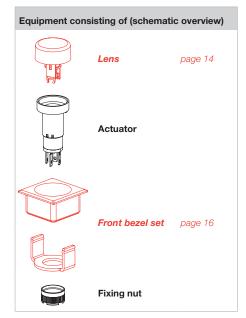
To obtain a complete unit, please select the red components from the pages shown.

Switching system	Contacts	Switching action	Terminal	Part No.	Compo- nent layout	Wiring diagram	Weight
	on actuator						
Snap-action switching element	1 NC	В	Solder	18-188.035	2	1	0.002 kg
		С	Solder	18-288.035	2	2	0.002 kg
	1 NO	В	Solder	18-187.035	2	3	0.002 kg
		С	Solder	18-287.035	2	4	0.002 kg
Pushbutto	on actuator						
Snap-action switching element	1 NC	В	Solder	18-168.035	2	1	0.002 kg
		С	Solder	18-268.035	2	2	0.002 kg
	1 NO	В	Solder	18-167.035	2	3	0.002 kg
		С	Solder	18-267.035	2	4	0.002 kg

Contacts: NC = Normally closed, NO = Normally open Switching action: B = Momentary, C = Maintain The component layouts you will find from page 20

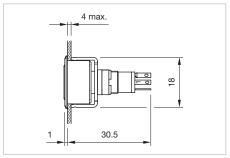


Illuminated pushbutton, IP 40



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

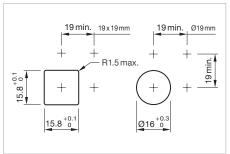
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]



Product can differ from the current configuration.



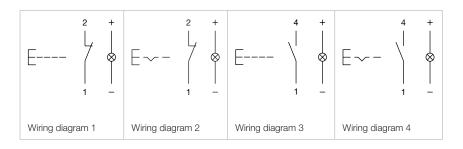
Mounting cut-outs [mm]

Additional Information

• For front dimensions 19 x 19 mm or Ø 19mm

Switching system	Contacts	Switching action	Terminal	Part No.	Compo- nent layout	Wiring diagram	Weight
Illumina	ated pushbutton actua						
Snap-action switching ele- ment	1 NC	В	Solder	18-188.035	2	1	0.002 kg
ment		С	Solder	18-288.035	2	2	0.002 kg
	1 NO	В	Solder	18-187.035	2	3	0.002 kg
		С	Solder	18-287.035	2 1 2 2	4	0.002 kg
Illumina	ated pushbutton actua		Solder	18-207.035		4	0.002 K
Snap-action switching ele-	1 NC	В	Solder	18-168.035	2	1	0.002 kg
ment		С	Solder	18-268.035	2	2	0.002 kg
	1 NO	В	Solder	18-167.035	2	3	0.002 kg
		С	Solder	18-267.035	2	4	0.002 kg

Contacts: NC = Normally closed, NO = Normally open Switching action: B = Momentary, C = Maintain The component layouts you will find from page 20



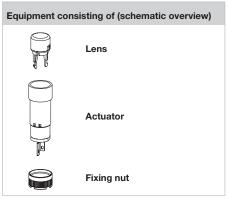
Indicator, IP 40



Product can differ from the current configuration.

4 max.

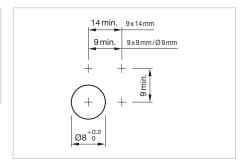
Dimensions [mm]



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

Additional Information

- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination
- The series resistance for LEDs need to be determined and integrated by customers.



Mounting cut-outs [mm]

TED colon. Terming Oberating All Colons Terming Oberation Oberatio	English Weight
--	----------------



Indicator actuator, Front dimension 9 x 9 mm

red	2.0 VDC @ 20 mA	customer-specific	10 mA	Plastic red translucent	Solder	18-050.0052L	1	1	0.002 kg
white	3.0 VDC @ 20 mA	customer-specific	10 mA	Plastic yellow translucent	Solder	18-050.0054L	1	1	0.002 kg
green	3.2 VDC @ 20 mA	customer-specific	2 mA	Plastic green translucent	Solder	18-050.0055L	1	1	0.002 kg
		12 VDC ±10 %	10 mA	Plastic red translucent	Solder	18-051.0052L	1	1	0.002 kg
			10 mA	Plastic yellow translucent	Solder	18-051.0054L	1	1	0.002 kg
			2 mA	Plastic green translucent	Solder	18-051.0055L	1	1	0.002 kg
		24 VDC ±10 %	10 mA	Plastic red translucent	Solder	18-052.0052L	1	1	0.002 kg
			10 mA	Plastic yellow translucent	Solder	18-052.0054L	1	1	0.002 kg
			2 mA	Plastic green translucent	Solder	18-052.0055L	1	1	0.002 kg



Indicator actuator, Front dimension 9 x 14 mm

red	2.0 VDC @ 20 mA	customer-specific	10 mA	Plastic red translucent	Solder	18-040.0052L	1	1	0.002 kg
white	3.0 VDC @ 20 mA	customer-specific	10 mA	Plastic yellow translucent	Solder	18-040.0054L	1	1	0.002 kg
green	3.2 VDC @ 20 mA	customer-specific	2 mA	Plastic green translucent	Solder	18-040.0055L	1	1	0.002 kg
		12 VDC ±10 %	10 mA	Plastic red translucent	Solder	18-041.0052L	1	1	0.002 kg
			10 mA	Plastic yellow translucent	Solder	18-041.0054L	1	1	0.002 kg
		24 VDC ±10 %	10 mA	Plastic red translucent	Solder	18-042.0052L	1	1	0.002 kg
			10 mA	Plastic yellow translucent	Solder	18-042.0054L	1	1	0.002 kg
			2 mA	Plastic green translucent	Solder	18-042.0055L	1	1	0.002 kg

LED colou	Forward voltage typ.	Operating voltage	Operation	Lens	Terminal	Part No.	Compo- nent layout	Wiring diagram	Weight
	Indicator act	tuator, Front dim	ension Ø 9 r	mm					
red	2.0 VDC @ 20 mA	customer-specific	10 mA	Plastic red translucent	Solder	18-030.0052L	1	1	0.002 kg
white	3.0 VDC @ 20 mA	customer-specific	10 mA	Plastic yellow translucent	Solder	18-030.0054L	1	1	0.002 kg
green	3.2 VDC @ 20 mA	customer-specific	2 mA	Plastic green translucent	Solder	18-030.0055L	1	1	0.002 kg
		12 VDC ±10 %	10 mA	Plastic red translucent	Solder	18-031.0052L	1	1	0.002 kg
			10 mA	Plastic yellow translucent	Solder	18-031.0054L	1	1	0.002 kg
			2 mA	Plastic green translucent	Solder	18-031.0055L	1	1	0.002 kg
		24 VDC ±10 %	10 mA	Plastic red translucent	Solder	18-032.0052L	1	1	0.002 kg
			10 mA	Plastic yellow translucent	Solder	18-032.0054L	1	1	0.002 kg
			2 mA	Plastic green translucent	Solder	18-032.0055L	1		0.002 kg

The component layouts you will find from page 20



18 Raised design

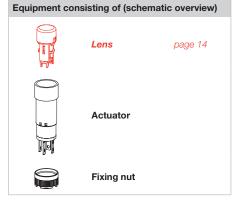
Pushbutton, IP 40



Product can differ from the current configuration.

4 max.

Dimensions [mm]

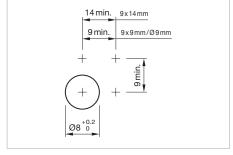


Each Part Number listed below includes all the black components shown in the 3D-drawing.

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

Additional Information

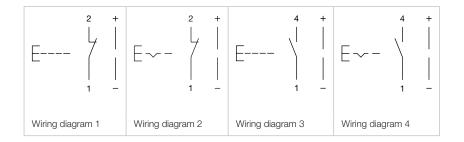
• +/- terminals are not connected



Mounting cut-outs [mm]

Switching system	Contacts	Switching action	Terminal	Part No.	Compo- nent layout	Wiring	Weight
Pushbutto	on actuator, Fror	nt dimension 9 x 9 mm					
Snap-action switching element	1 NC	В	Solder	18-158.035	2	2 2	0.002 kg
		С	Solder	18-258.035	2	2	0.002 kg
	1 NO	В	Solder	18-157.035	2	3	0.002 kg
		С	Solder	18-257.035	2	4	0.002 kg
Pushbutto	on actuator, Fror	nt dimension 9 x 14 mm					
			Solder	19,149,025	2	1	0.002 kg
	on actuator, Fron	В	Solder	18-148.035 18-248.035	2	1 2	_
Pushbutto Snap-action switching element	1 NC	ВС	Solder	18-248.035	2	2	0.002 kg 0.002 kg
		В		10 11000			_
Snap-action switching element	1 NO	В С В	Solder Solder	18-248.035 18-147.035	2	2	0.002 kg
Snap-action switching element Pushbutto	1 NO	B C B C	Solder Solder	18-248.035 18-147.035	2	2	0.002 kg 0.002 kg 0.002 kg
Snap-action switching element Pushbutto	1 NC 1 NO on actuator, Fror	B C B C	Solder Solder Solder	18-248.035 18-147.035 18-247.035	2 2 2	2 3 4	0.002 kg
Snap-action switching element	1 NC 1 NO on actuator, Fror	B C B C	Solder Solder Solder Solder	18-248.035 18-147.035 18-247.035	2 2 2	2 3 4	0.002 kg 0.002 kg 0.002 kg

Contacts: NC = Normally closed, NO = Normally open Switching action: <math>B = Momentary, C = Maintain The component layouts you will find from page 20

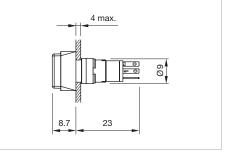


18 Raised design

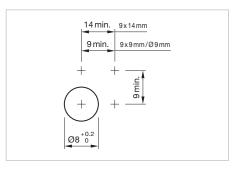
Illuminated pushbutton, IP 40



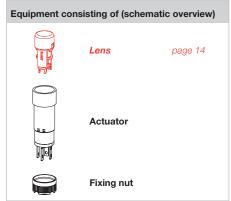
Product can differ from the current configuration.



Dimensions [mm]



Mounting cut-outs [mm]



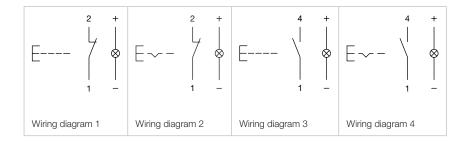
Each Part Number listed below includes all the black components shown in the 3D-drawing.

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

Switching system	Contacts	Switching action	Terminal	Part No.	Compo- nent layout	Wiring	Weight
		tor, Front dimension 9		, 4.7.16			Trongine
Snap-action switching ele-	1 NC	В	Solder	18-158.035	2	1	0.002 kg
ment		С	Solder	18-258.035	2	2	0.002 kg
	1 NO	В	Solder	18-157.035	2	3	0.002 kg
		С	Solder	18-257.035	2	4	0.002 kg
Illumina	ated pushbutton actua	tor, Front dimension 9	x 14 mm				
Illumina	ated pushbutton actua	tor, Front dimension 9	x 14 mm				
Snap-action switching ele-	ated pushbutton actua	tor, Front dimension 9	x 14 mm Solder	18-148.035	2	1	0.002 kg
Snap-action switching ele-	-			18-148.035 18-248.035	2 2	1 2	0.002 kg
Illumina Snap-action switching element	-	В	Solder				
Snap-action switching ele-	1 NC	ВС	Solder Solder	18-248.035	2	2	0.002 kg
Snap-action switching element	1 NC 1 NO ated pushbutton actua	B C B C	Solder Solder Solder Solder	18-248.035 18-147.035 18-247.035	2 2 2	2	0.002 kg 0.002 kg 0.002 kg
Snap-action switching element	1 NC	B C B C Tor, Front dimension Ø	Solder Solder Solder Solder 9 mm Solder	18-248.035 18-147.035 18-247.035	2 2 2	2 3 4	0.002 kg 0.002 kg 0.002 kg
Snap-action switching element Illumina Snap-action switching ele-	1 NC 1 NO ated pushbutton actua	B C B C	Solder Solder Solder Solder	18-248.035 18-147.035 18-247.035	2 2 2	2 3 4	0.002 kg 0.002 kg 0.002 kg

Contacts: NC = Normally closed, NO = Normally open Switching action: <math>B = Momentary, C = Maintain The component layouts you will find from page 20

Raised design 18



Front

Lens without LED flush design

Dimension	Lens	Part No.	Weight
Lens	without LED flush design		
13.8 x 13.8 mm	Plastic black opaque	18-982.0	0.001 kg
	Plastic red translucent	18-982.2	0.001 kg
	Plastic yellow translucent	18-982.4	0.001 kg
	Plastic green translucent	18-982.5	0.001 kg
	Plastic grey opaque	18-982.8	0.001 kg
	Plastic white translucent	18-982.9	0.001 kg
Lens Ø 13.8 mm	without LED flush design Plastic black opaque	18-962.0	0.001 kg
	Plastic red translucent	18-962.2	0.001 kg
	Plastic yellow translucent	18-962.4	0.001 kg
	Plastic green translucent	18-962.5	0.001 kg
	Plastic grey opaque	18-962.8	0.001 kg
			5

Lens with LED flush design

Additional Information

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

Dimension	Lens	Part No.	Weight
Lens 13.8 x 13.8 mm	with LED flush design	18-981.2L	0.001 kg
10.0 X 10.0 11111	Plastic yellow translucent	18-981.4L	0.001 kg
	Plastic green translucent	18-981.5L	0.001 kg
Lens	with LED flush design		
Ø 13.8 mm	Plastic red translucent	18-961.2L	0.001 kg
	Plastic yellow translucent	18-961.4L	0.001 kg
	Plastic green translucent	18-961.5L	0.001 kg

Lens without LED raised design

Dimension	Lens	Part No.	Weight
Lens	without LED raised design		
7.5 x 7.5 mm	Plastic black opaque	18-952.0	0.001 kg
	Plastic red translucent	18-952.2	0.001 kg
	Plastic yellow translucent	18-952.4	0.001 kg
	Plastic green translucent	18-952.5	0.001 kg
	Plastic grey opaque	18-952.8	0.001 kg
	Plastic white translucent	18-952.9	0.001 kg
7.5 x 12.5 mm	Plastic black opaque	18-942.0	0.001 kg
Lens	without LED raised design		
7.5 x 12.5 mm	Plastic black opaque	18-942.0	0.001 kg
	Plastic red translucent	18-942.2	0.001 kg
	Plastic yellow translucent	18-942.4	0.001 kg
	Plastic green translucent	18-942.5	0.001 kg
	Plastic grey opaque	18-942.8	0.001 kg
	Plastic white translucent	18-942.9	0.001 kg
Lens			
	without LED raised design		
Ø 7.5 mm	Plastic black opaque	18-932.0	0.001 kg
		18-932.0 18-932.2	0.001 kg 0.001 kg
	Plastic black opaque		
	Plastic black opaque Plastic red translucent	18-932.2	0.001 kg
	Plastic black opaque Plastic red translucent Plastic yellow translucent	18-932.2 18-932.4	0.001 kg 0.001 kg

18 Accessories

Lens with LED raised design

Additional Information

- Without built-in series resistor, typical forward voltage 2.2 VDC @ 20 mA
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination

.				
.				
D: .				
Dimension		Lens	Part No.	Weight
	Lens with LED raised design	T		
7.5 x 7.5 mm		Plastic red translucent	18-951.2L	0.001 kg
		Plastic yellow translucent	18-951.4L	0.001 kg
		Plastic green translucent	18-951.5L	0.001 kg
7.5 x 12.5 mm	Lens with LED raised design	Plastic red translucent	18-941.2L	0.001 kg
		Plastic yellow translucent	18-941.4L	0.001 kg
		Plastic green translucent	18-941.5L	0.001 kg
	Lens with LED raised design			
		DI 11 1 1	10 001 01	0.0041
Ø 7.5 mm		Plastic red translucent	18-931.2L	0.001 kg
Ø 7.5 mm		Plastic red translucent Plastic yellow translucent	18-931.2L 18-931.4L	0.001 kg
	Lens with LED raised design		10.004.01	0.004

Front bezel set

Product attribute	Mounting cut-out	Front bezel	Part No.	Weight
Front	t bezel set, flush design, F	ront dimension 19 x 19	mm	
for square lens	15.8 x 15.8 mm	Plastic black	18-920.1	0.006 kg
Front	t bezel set, flush design, F	ront dimension 19 x 19	mm	
for round lens	15.8 x 15.8 mm	Plastic black	18-920.2	0.006 kg
	hard out flush doors. F	ront dimension Ø 10 mr	m	
Front	t bezel set, flush design, F	iont dimension & 19 ini	••	

Blind plug

Additional Information

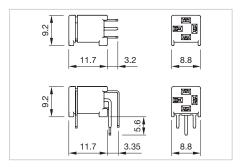
The dimensions of the mounting cut-outs are shown in the product details

Dimension Blind plug	Mounting cut-out	Material	Colour	Part No.	Weight
9 x 9 mm	Ø 8 mm	Plastic	black	19-948.0	0.001 kg
Blind plug					
Ø 9 mm	Ø 8 mm	Plastic	black	19-949.0	0.001 kg

18 Accessories

Rear side

PCB plug-in base



Dimensions [mm]

pins	PCB plug-in base	Terminal	Part No.	Compo- nent layout	Weight
axial		PCB	18-945	3	0.001 kg
	PCB plug-in base				
right-angled		PCB	18-946	4	0.001 kg

The component layouts you will find from page 20

Mounting

Lens remover

Part No.	Weight
Lens remover	
18-910	0.002 kg

Mounting tool

Additional Information

• For fixing nut long Part No. 19-991

Part No.		Weight
	Mounting tool	
19-905		0.011 kg

18 Drawings

Drawings

9 x 9 mm 19 x 19 mm



9 x 14 mm



9 x 9 mm 19 x 19 mm





9 x 14 mm



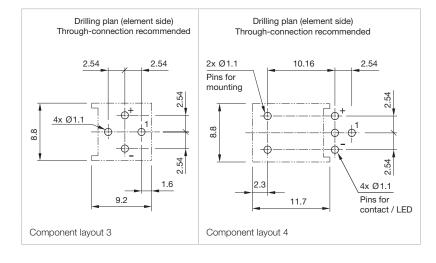
Ø9 mm Ø19 x 19 mm



X contact-nr. 2 = NO 4 = NC

Component layout 1

Component layout 2



Actuator with snap-action switching element

Switching system

The snap-action switching system was designed for switching low powers in electronic circuits.

Single-break snap-action contact.

Material

Lens

Polymethylacrylate (PMMA), Polycarbonate (PC)

Material of contact

Gold contact on nickel plating

Actuator housing

Polyamide, colour black

Mechanical characteristics

Terminals

The terminals can be used as soldering terminals.

Max. wire diameter: 2 x 0.5 mm²

Max. wire cross-section of stranded cable 1 x 0.75 mm²

Wire cross-section of terminal 1.6 x 0.4 mm

Tightening torque

for fixing nut max. 20 Ncm

Actuating force

1.4N

Actuating travel

2.2mm ±0.2mm

Rebound time

≤ 2.5 ms

Mechanical lifetime

Momentary action 2 million cycles of operation Maintained action 1 million cycles of operation, as per IEC 60512-5-9a

EAO reserves the right to alter specifications without further notice.

Electrical characteristics

Illumination

Operating voltage LED: 12 VDC ± 10 %

24 VDC ± 10 %

customer-specific *)

*) The series resistance for LEDs need to be determined and integrated by customers.

Operating current: red typ. 10 mA

yellow typ. 10 mA green typ. 2 mA white typ. 10 mA blue typ. 10 mA

Contact resistance

 \leq 100 m Ω starting value (initial), as per IEC 60512-2-2b

Electrical life

 $\geq 500\,000$ cycles of operation at 30 VDC, 100 mA, according to IEC 61058-1

Switch rating

min. 10 µA at 100 µV

max. 100 mA at 42 VAC/VDC

Electric strength

 $500\,\text{VAC}$, $50\,\text{Hz}$, 1 min. between all terminals and earth, as per IEC 60512-2-11

Environmental conditions

Storage temperature

-40°C...+80°C

Service temperature

-25°C...+65°C

Protection degree

IP 40 front side, as per IEC 60529

Shock resistance

(Single impacts, semi-sinusodial) 50 g for 11 ms, as per IEC 60068-2-27

Vibration resistance

(sinusoidal) 10 g at $10-2000\,\mathrm{Hz}$, amplitude $0.75\,\mathrm{mm}$, as per IEC 60512-4-4

18 Application guidelines

Suppressor circuits

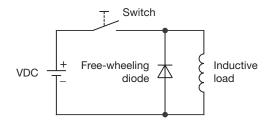
When switching inductive loads such as relays, DC motors, and DC solenoids, it is always important to absorb surges (e.g. with a diode) to protect the contacts. When these inductive loads are switched off, a counter emf can severely damage switch contacts and greatly shorten lifetime.

Fig. 1 shows an inductive load with a free-wheeling diode connected in parallel. This free-wheeling diode provides a path for the inductor current to flow when the current is interrupted by the switch. Without this free-wheeling diode, the voltage across the coil will be limited only by dielectric breakdown voltages of the circuit or parasitic elements of the coil. This voltage can be kilovolts in amplitude even when nominal circuit voltages are low (e.g. 12VDC) see Fig. 2.

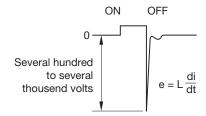
The free-wheeling diode should be chosen so that the reverse breakdown voltage is greater than the voltage driving the inductive load. The DC blocking voltage (VR) of the free-wheeling diode can be found in the datasheet of a diode. The forward current should be equal or greater than the maximum current flowing through the load.

To get an efficient protection, the free-wheeling diode must be connected as close as possible to the inductive load!

Switching with inductive load Fig. 1



Counter EMF over load without free-wheeling diode Fig. 2



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