#### Characteristics

The compact 8 mm Series 19 is especially suited for:

- Raised design
- PCB (with adaptor)

The low level switching element is laid out for low current applications.

#### **Functions**

The Series 19 incorporates the following functions:

- Indicator
- Pushbutton
- Illuminated pushbutton

#### Market segments

The EAO Series 19 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	
Raised design	
Indicator	4
Illuminated pushbutton	5
Accessories	7
Drawings	14
Technical data	15
Application guidelines	17
Index	18

# 19 Raised design

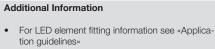
#### Indicator, IP 40

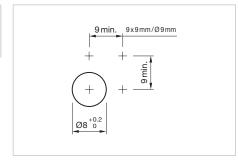


Product can differ from the current configuration.

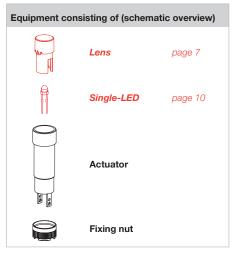
# 8 max.

Dimensions [mm]





Mounting cut-outs [mm]

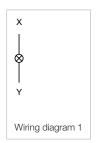


Each Part Number listed below includes all the black components shown in the 3D-drawing.

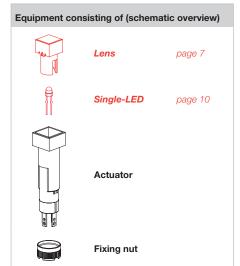
To obtain a complete unit, please select the red components from the pages shown.

Behind panel depth	Terminal	Part No.	Compo- nent layout	Wiring diagram	Weight
Indicator act	uator, Front dimension 9 x 9 mm	19-050.005	1	1	0.001 kg
33 mm	Solder 2.0 x 0.5mm	19-051.005	1	1	0.001 kg
Indicator act	uator, Front dimension Ø 9 mm		ı	ı	
25 mm	Solder 2.0 x 0.5mm	19-030.005	1	1	0.001 kg
33 mm	Solder 2.0 x 0.5mm	19-031.005			0.002 kg

The component layouts you will find from page 14

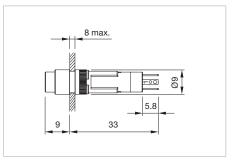


#### Illuminated pushbutton, IP 40



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

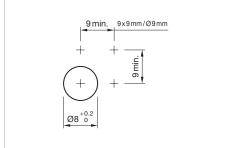
To obtain a complete unit, please select the red components from the pages shown.



Dimensions



Product can differ from the current configuration.



#### **Additional Information**

For LED element fitting information see «Application guidelines»

		Mounting cut-ou	uts [mm]						
Switching system	Contacts	Contact material	Switching action	Terminal	Part No.	Compo- nent layout	Wiring diagram	Weight	
Illur	ninated pushb	outton actuator, Front	t dimension 9 x 9 r	nm					
Low-level element	1 NC	Gold	В	Solder 2.0 x 0.5mm	19-452.035	2	1	0.002 kg	
			С	Solder 2.0 x 0.5mm	19-482.035	2	2	0.002 kg	
	1 NO	Gold	В	Solder 2.0 x 0.5mm	19-451.035	2	3	0.002 kg	
			С	Solder 2.0 x 0.5mm	19-481.035	2	4	0.002 kg	
Snap-action switching	1 NO	Gold	В	Solder 2.0 x 0.5mm	19-159.035	2	3	0.002 kg	
lement		Silver		С	Solder 2.0 x 0.5mm	19-289.035	2	4	0.002 k
				5	Silver	В	Solder 2.0 x 0.5mm	19-159.015	2
			С	Solder 2.0 x 0.5mm	19-289.015	2	4	0.002 kg	

С

В

С

В

С

Gold

Silver

Contacts: NC = Normally closed, NO = Normally open Switching action: B = Momentary, C = Maintain The component layouts you will find from page 14

1 NO

Snap-action switching

0.002 kg

0.002 kg

0.002 kg

0.002 kg

0.002 kg

19-471.035

19-139.035

19-279.035

19-139.015

19-279.015

Solder 2.0 x 0.5mm

2

2

2

2

2

4

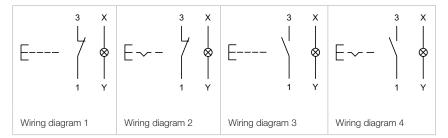
3

4

3

4

# 19 Raised design



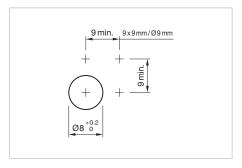
# Front

## Lens

Product attribute	Dimension	Lens	Part No.	Weight
Lens				
lluminative, holder translucent	7.3 x 7.3 mm	Plastic red transparent	19-951.2	0.001 kg
		Plastic yellow transparent	19-951.4	0.001 kg
		Plastic green transparent	19-951.5	0.001 kg
		Plastic blue transparent	19-951.6	0.001 kg
		Plastic white transparent	19-951.9	0.001 kg
uminative, not recommended for film insert,	7.3 x 7.3 mm	Plastic red transparent	19-952.2	0.001 kg
older transparent		Plastic yellow transparent	19-952.4	0.001 kg
		Plastic green transparent	19-952.5	0.001 kg
		Plastic blue transparent	19-952.6	0.001 kg
		Plastic colourless transparent	19-952.7	0.001 kg
on-illuminative	7.3 x 7.3 mm	Plastic black opaque	19-951.0	0.001 kg
		Plastic grey opaque	19-951.8	0.001 kg
Lens				
luminative, holder translucent	Ø 7.3 mm	Plastic red transparent Plastic yellow transparent	19-931.2 19-931.4	
uminative, holder translucent	Ø 7.3 mm	· ·		0.001 kg
uminative, holder translucent	Ø 7.3 mm	Plastic yellow transparent	19-931.4	0.001 kg 0.001 kg
uminative, holder translucent	Ø 7.3 mm	Plastic yellow transparent Plastic green transparent	19-931.4 19-931.5	0.001 kg 0.001 kg 0.001 kg
uminative, not recommended for film insert,	Ø 7.3 mm	Plastic yellow transparent Plastic green transparent Plastic blue transparent	19-931.4 19-931.5 19-931.6	0.001 kg 0.001 kg 0.001 kg 0.001 kg
uminative, not recommended for film insert,		Plastic yellow transparent Plastic green transparent Plastic blue transparent Plastic white transparent	19-931.4 19-931.5 19-931.6 19-931.9	0.001 kg 0.001 kg 0.001 kg 0.001 kg 0.001 kg
uminative, not recommended for film insert,		Plastic yellow transparent Plastic green transparent Plastic blue transparent Plastic white transparent Plastic red transparent	19-931.4 19-931.5 19-931.6 19-931.9 19-932.2	0.001 kg 0.001 kg 0.001 kg 0.001 kg 0.001 kg 0.001 kg
uminative, not recommended for film insert,		Plastic yellow transparent Plastic green transparent Plastic blue transparent Plastic white transparent Plastic red transparent Plastic yellow transparent	19-931.4 19-931.5 19-931.6 19-931.9 19-932.2 19-932.4	0.001 kg
uminative, not recommended for film insert,		Plastic yellow transparent Plastic green transparent Plastic blue transparent Plastic white transparent Plastic red transparent Plastic yellow transparent Plastic green transparent	19-931.4 19-931.5 19-931.6 19-931.9 19-932.2 19-932.4 19-932.5	0.001 kg
luminative, holder translucent  luminative, not recommended for film insert, holder transparent		Plastic yellow transparent Plastic green transparent Plastic blue transparent Plastic white transparent Plastic red transparent Plastic yellow transparent Plastic green transparent Plastic blue transparent	19-931.4 19-931.5 19-931.6 19-931.9 19-932.2 19-932.4 19-932.5 19-932.6	0.001 kg

# **19** Accessories

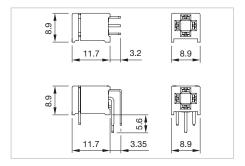
# Blind plug



Mounting cut-outs [mm]

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

# Rear side



Dimensions [mm]

# PCB plug-in base

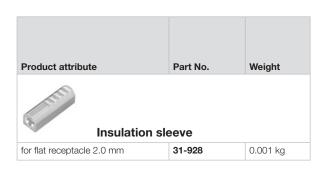
pins	PCB plug-in base	Terminal	Part No.	Compo- nent layout	Weight
axial		PCB	19-940	4	0.001 kg
	PCB plug-in base				
right-angled		PCB	19-941	3	0.001 kg

The component layouts you will find from page 14

# Flat receptacle

Product attribute	Part No.	Weight				
Flat receptacle						
2.0 x 0.5 mm plug-in terminal <b>31-945</b> 0.001 kg						

#### Insulation sleeve

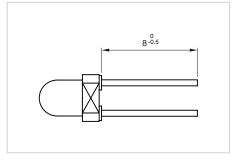


## Illumination

## Single-LED, T1 Bi-Pin

#### **Additional Information**

- For LED element fitting information see «Applica-tion guidelines, LED polarity»
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination



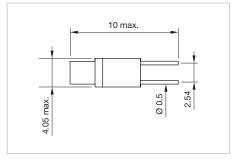
Dimensions [mm]

Pins	LED colour	Lumi. intensity	Dom. wavelength	Forward voltage typ.	Part No.	Weight
Single-LED						
Siligie-LLD						
Single-LED max. length: 8 mm	red	450 mcd	635 nm	2.0 VDC @ 20 mA	10-2601.3172K	0.001 kg
	red yellow	450 mcd	635 nm 587 nm	2.0 VDC @ 20 mA 2.1 VDC @ 20 mA	10-2601.3172K 10-2601.3174K	0.001 kg 0.001 kg
		1	1 1 1 1			J
	yellow	450 mcd	587 nm	2.1 VDC @ 20 mA	10-2601.3174K	0.001 kg

# Single-LED, T1 Bi-Pin

### **Additional Information**

- For LED element fitting information see «Application guidelines»
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination



Dimensions [mm]

Pins	LED-colour	Lumi. intensity	Dom. wavelength	Operating voltage	Operation current	Part No.	Weight
Single	e-LED						
Single Led T1 Bi-Pin,	red	45 mcd	625 nm	28 VAC/DC +10 %	5 mA/9mA ±15 %	10-2613.1072	0.001 kg
max. length: 5 mm					E A/O A 4E O/		
	yellow	270 mcd	580 nm	28 VAC/DC +10 %	5 mA/9mA ±15 %	10-2613.1074	0.001 kg

# Filament lamp, T1 Bi-Pin

pins	Operating voltage	Operation current	Part No.	Weight
Filament lamp				
max. length: 5 mm	6 VAC/DC	70 mA	10-1606.1309	0.001 kg
	12 VAC/DC	25 mA	10-1609.1199	0.001 kg
	24 VAC/DC	20 mA	10-1612.1179	0.001 kg

# **19** Accessories

# Mounting

# Fixing nut

Dimension	Part No.	Weight
Fixing nut		
Ø 9/M8 x 13 mm	19-991	0.001 kg

# **Dressing tool**

#### Additional Information

For aligning buttons

Part No.		Weight	
D.	ressing tool		
19-906		0.011 kg	

## Lens remover

Part No.		Weight
	Lens remover	
19-910		0.002 kg

#### Lamp remover

#### **Additional Information**

▲ Caution: A switching process might be released when replacing the lamp



# Mounting tool

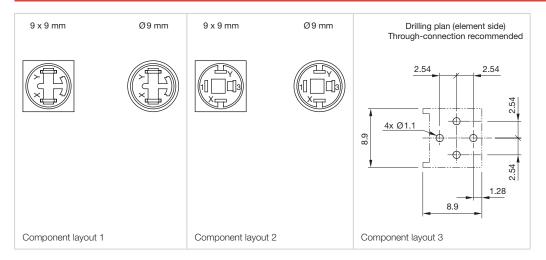
#### **Additional Information**

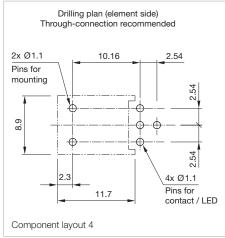
• For fixing nut long Part No. 19-991

Part No.	Weight
Mounting tool	
19-905	0.011 kg

# 19 Drawings

## **Drawings**





#### Actuator with snap-action switching element

#### **Switching system**

Single-break, snap-action switching system. 1 normally open contact

#### Material

#### **Material of contact**

Gold plated Silver, Silver plated

#### **Switch housing**

Polyetherimide (PEI), self-extinguishing

#### **Actuator housing**

Polyphenyleneoxide (PPO), self-extinguishing, colour black

#### **Mechanical characteristics**

#### **Terminals**

Universal terminal:

Max. wire diameter 2 x 0.8 mm

Max. wire cross-section of stranded cable 1 x 0.75 mm<sup>2</sup>

Plug-in terminal: 2.0 x 0.5 mm

For these terminals we can also supply a plug-in base which, when soldered on to the board, enables the switch to be plugged in.

#### **Tightening torque**

for fixing nut max. 20 Ncm

#### **Actuating force**

1.6N

#### **Actuating travel**

2.8 mm ±0.2 mm

#### **Mechanical lifetime**

2 million operations

#### **Electrical characteristics**

#### Switch rating

Silver plated:

Max. 50 VAC, 0.8 A/72 VDC, 0.7 A

Min. 20 V, 10 mA

Gold plated:

Max. 50 VAC, 100 mA/72 VDC, 70 mA

Min. 100 μV, 50 μA

#### **Electric strength**

 $2500\,\text{VAC},\,50\,\text{Hz},\,1$  min. between all terminals and earth, as per IEC 60512-2-11

#### **Environmental conditions**

#### Storage temperature

-40°C...+85°C

#### Service temperature

without illumination -25°C...+65°C with incandescent lamp -25°C...+45°C

with LED -25°C ... +65°C

for indicators and illuminated pushbuttons mounted as a block, make sure the heat can escape freely

#### **Protection degree**

IP 40 front side, as per IEC 60529

#### **Actuator with low level switching element**

#### **Switching system**

This low-level switching system was designed for switching low powers in electronic circuits. The switching system assures reliable switching of loads.

Single-break momentary contact, as normally open or normally closed with 4 independent points of contact.

Special features are the long life, extremely short rebound time and stable contact resistance.

1 normally open or 1 normally closed contact.

**Terminals** 

Universal terminal:

Max. wire diameter 2 x 0.8 mm

**Mechanical characteristics** 

Max. wire cross-section of stranded cable 1 x  $0.75\,\text{mm}^2$ 

Plug-in terminal: 2.0 x 0.5 mm

For these terminals we can also supply a plug-in base which, when soldered on to the board, enables the switch to be plugged in.

#### **Tightening torque**

for fixing nut max. 20 Ncm

#### **Actuating force**

 $1.8N \pm 0.3N$ 

#### **Material**

#### **Material of contact**

Gold plated

#### **Actuator housing**

Polyphenyleneoxide (PPO), self-extinguishing, colour black

# 19 Technical data

#### **Actuating travel**

2.8 mm ±0.2 mm

#### Rebound time

Typ. < 100 µs

#### **Mechanical lifetime**

5 million operations

#### **Electrical characteristics**

#### **Contact resistance**

 $\leq$  50 m $\Omega$  starting value (initial) as per IEC 60512-2-2b

#### Switch rating

 $10\,\mu\text{A},\,100\,\mu\text{V}$  to  $100\,\text{mA}$  at  $42\,\text{VAC/VDC}$ 

#### **Electric strength**

2500 VAC, 50 Hz, 1 min. between all terminals and earth, as per IEC 60512-2-11

EAO reserves the right to alter specifications without further notice.

#### **Environmental conditions**

#### Storage temperature

-40°C...+85°C

#### Service temperature

without illumination -25 °C ... +65 °C with incandescent lamp -25 °C ... +45 °C with LED -25 °C ... +65 °C for indicators and illuminated pushbuttons mounted as a block, make sure the heat can escape freely

#### **Protection degree**

IP 40 front side, as per IEC 60529

#### **Shock resistance**

(Single impacts, semi-sinusoidal) 15 g for 11 ms, as per IEC 60512-4-3, IEC 60068-2-27

#### **Suppressor circuits**

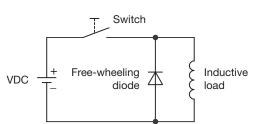
When switching inductive loads such as relays, DC motors, and DC solenoids, it is always important to absorb surges (e.g. with a diode) to protect the contacts. When these inductive loads are switched off, a counter emf can severely damage switch contacts and greatly shorten lifetime.

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.

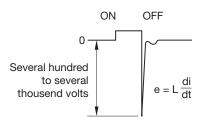
The free-wheeling diode should be chosen so that the reverse breakdown voltage is greater than the voltage driving the inductive load. The DC blocking voltage (VR) of the free-wheeling diode can be found in the datasheet of a diode. The forward current should be equal or greater than the maximum current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

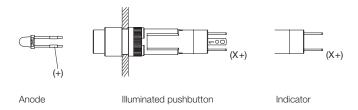


Counter EMF over load without free-wheeling diode Fig. 2



# **LED** polarity

When fitting the LED elements the polarity has to correspond with the respective terminal, (x+) goes to +.



#### Recommended LED series resistors for optimum illumination

Resistor size 0207.1 %

	LED red	LED yellow	LED green	LED white	LED blue
6 VDC	390R	390R	1K5	390R	390R
12 VDC	1K	1K	4K7	1K	1K
24 VDC	2K2	2K2	10K	2K2	2K2

# 19 Index

# Index from Part No.

# Part No. Page

10-1606.1309 11 10-1609.1199 11
10-1609 1199 11
10 1000.1100
10-1612.1179 11
10-2601.3172K 10
10-2601.3174K 10
10-2603.3175K 10
10-2603.3176K 10
10-2603.3178K 10
10-2613.1072 10
10-2613.1074 10
10-2613.1075 10
11-906 13
19-030.005 4
19-031.005 4
19-050.005 4
19-051.005 4
19-139.015 5
19-139.035 5
19-159.015 5
19-159.035 5
19-279.015 5
19-279.035 5
19-289.015 5
19-289.035 5
19-431.035 5
19-432.035 5
19-451.035 5
19-452.035 5
19-471.035 5
19-472.035 5
19-481.035 5
19-482.035 5
19-905 13
19-906 12
19-910 12
19-931.0 7
19-931.0 7
19-931.2 7
19-931.2
19-931.2
19-931.2
19-931.2       7         19-931.4       7         19-931.5       7         19-931.6       7
19-931.2       7         19-931.4       7         19-931.5       7         19-931.6       7         19-931.8       7
19-931.2       7         19-931.4       7         19-931.5       7         19-931.6       7
19-931.2     7       19-931.4     7       19-931.5     7       19-931.6     7       19-931.8     7       19-931.9     7
19-931.2       7         19-931.4       7         19-931.5       7         19-931.6       7         19-931.8       7         19-931.9       7         19-932.2       7
19-931.2     7       19-931.4     7       19-931.5     7       19-931.6     7       19-931.8     7       19-931.9     7
19-931.2     7       19-931.4     7       19-931.5     7       19-931.6     7       19-931.8     7       19-931.9     7       19-932.2     7       19-932.4     7
19-931.2     7       19-931.4     7       19-931.5     7       19-931.6     7       19-931.8     7       19-931.9     7       19-932.2     7       19-932.4     7       19-932.5     7
19-931.2     7       19-931.4     7       19-931.5     7       19-931.6     7       19-931.9     7       19-932.2     7       19-932.4     7       19-932.6     7
19-931.2     7       19-931.4     7       19-931.5     7       19-931.6     7       19-931.9     7       19-932.2     7       19-932.4     7       19-932.6     7
19-931.2     7       19-931.4     7       19-931.5     7       19-931.6     7       19-931.8     7       19-932.2     7       19-932.4     7       19-932.5     7       19-932.6     7       19-932.7     7
19-931.2     7       19-931.4     7       19-931.5     7       19-931.6     7       19-931.8     7       19-931.9     7       19-932.2     7       19-932.4     7       19-932.5     7       19-932.6     7       19-932.7     7       19-940     9
19-931.2     7       19-931.4     7       19-931.5     7       19-931.6     7       19-931.8     7       19-931.9     7       19-932.2     7       19-932.4     7       19-932.5     7       19-932.6     7       19-932.7     7       19-940     9
19-931.2     7       19-931.4     7       19-931.5     7       19-931.6     7       19-931.8     7       19-932.2     7       19-932.4     7       19-932.5     7       19-932.6     7       19-932.7     7       19-940     9       19-941     9
19-931.2     7       19-931.4     7       19-931.5     7       19-931.6     7       19-931.8     7       19-931.9     7       19-932.2     7       19-932.4     7       19-932.5     7       19-932.6     7       19-932.7     7       19-940     9       19-941     9       19-948.0     8
19-931.2     7       19-931.4     7       19-931.5     7       19-931.6     7       19-931.8     7       19-931.9     7       19-932.2     7       19-932.4     7       19-932.5     7       19-932.6     7       19-932.7     7       19-940     9       19-941     9       19-948.0     8
19-931.2     7       19-931.4     7       19-931.5     7       19-931.6     7       19-931.8     7       19-931.9     7       19-932.2     7       19-932.4     7       19-932.5     7       19-932.6     7       19-932.7     7       19-940     9       19-941     9       19-948.0     8       19-949.0     8
19-931.2     7       19-931.4     7       19-931.5     7       19-931.6     7       19-931.8     7       19-931.9     7       19-932.2     7       19-932.5     7       19-932.6     7       19-932.7     7       19-940     9       19-941     9       19-948.0     8       19-949.0     8       19-951.0     7
19-931.2     7       19-931.4     7       19-931.5     7       19-931.6     7       19-931.8     7       19-931.9     7       19-932.2     7       19-932.5     7       19-932.6     7       19-932.7     7       19-940     9       19-941     9       19-948.0     8       19-949.0     8       19-951.0     7
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