# Series 02

# Characteristics

The robust Series 02 is especially suited for:

Flush design

The rectangular construction (24 x 36 mm) provides large surfaces for illumination and labelling.

# Functions

The Series 02 incorporates the following functions:

- Indicator
- Pushbutton
- Illuminated pushbutton
- Keylock switch
- Buzzer

#### Market segments

The EAO Series 02 is especially suited for applications in the segments:

- Ship building
- Panel building

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	
Flush design	
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# 02 Flush design

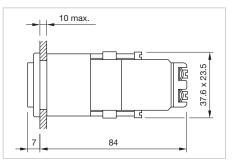
# Indicator, IP 40



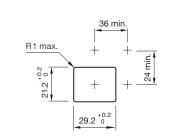
Product can differ from the current configuration.

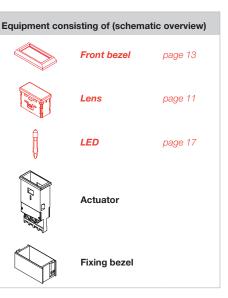
#### Additional Information

- For front dimension 24 x 36 mm
- For indicator 02-07x.00x can only filament lamps be used (no LEDs)
- For LED element fitting information see chapter
   «Application guidelines»
- Take note of heat generating



Dimensions [mm]



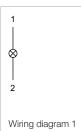


Each article number listed below includes all the black components shown in the 3D-drawing.

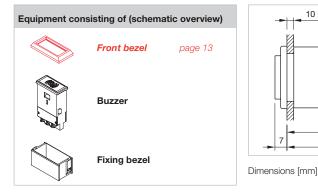
To obtain a complete unit, please select the red components from the pages shown.

Mounting cut-outs [mm]

Product attribute	Behind panel depth	Terminal	Part No.	Wiring diagram	Weight
Indicator actuator					
without serie resistor, for LED or filament lamp	60 mm	Screw	02-021.001	1	0.030 kg
Indicator actuator					
Indicator actuator           with built-in lamp series resistor, 240 VAC/DC to 48 V, 25 mA, for filament lamp	84 mm	Screw	02-070.001	1	0.045 kg
with built-in lamp series resistor, 240 VAC/DC to 48 V, 25 mA,	84 mm 84 mm	Screw	02-070.001 02-071.001	1	0.045 kg 0.045 kg
with built-in lamp series resistor, 240 VAC/DC to 48 V, 25 mA, for filament lamp with built-in lamp series resistor, 110 VAC/DC to 48 V, 25 mA,				1 1 1	



# Buzzer, IP 40



36 min.

min.

24

1

+

+

29.2<sup>+0.2</sup>



Product can differ from the current configuration.

### Additional Information

- For front dimension 24 x 36 mm
- Further information in chapter «Technical Data»

Each article 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.

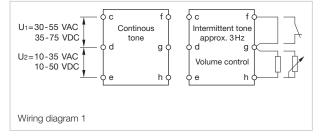


R1 max.

0.2

21.2





# 02 Flush design

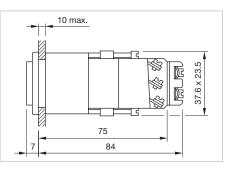
# Pushbutton, IP 40



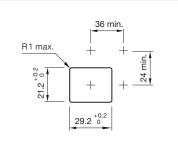
Product can differ from the current configuration.

#### Additional Information

For front dimension 24 x 36 mm •



Dimensions [mm]



Equipment consisting of (schematic overview) Front bezel page 13 page 11 Lens Actuator Fixing bezel

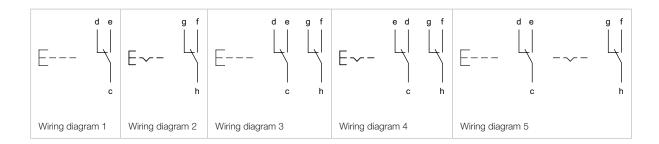
Each article number listed below includes all the black components shown in the 3D-drawing.

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

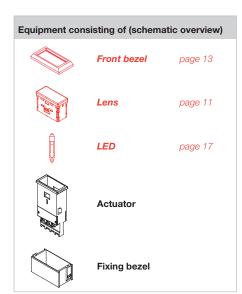
Mounting cut-outs [mm]

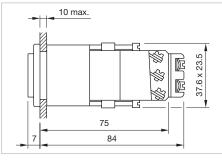
Contacts	Switching action	Terminal	Part No.	Wiring diagram	Weight
10	A	Screw	02-611.011	1	0.045 kg
10	A C	Screw Screw	02-611.011 02-613.011	1	0.045 kg 0.045 kg
10					-
	C	Screw	02-613.011	2	0.045 kg

Contacts: C = Changeover Switching action: B = Momentary, C = Maintain



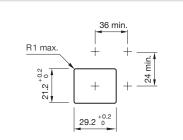
# Illuminated pushbutton, IP 40





Dimensions [mm] [mm]

Mounting cut-outs [mm]



Product can differ from the current configuration.

#### Additional Information

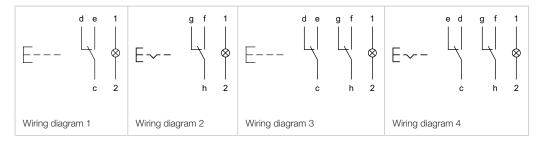
- For front dimension 24 x 36 mm •
- For LED element fitting information see chapter • «Application guidelines»

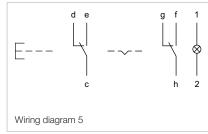
Each article number listed below includes all the black components shown in the 3D-drawing.

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

Contacts	Switching action	Terminal	Part No.	Wiring diagram	Gewicht
Illumin	nated pushbutton actuator				
Illumin 10	B	Screw	02-616.011	1	0.050 kg
		Screw Screw	02-616.011 02-618.011	1	0.050 kg 0.050 kg
1 C	В			1 2 3	
	B C	Screw	02-618.011		0.050 kg

Contacts: C = Changeover Switching action: B = Momentary, C = Maintain





# 02 Flush design

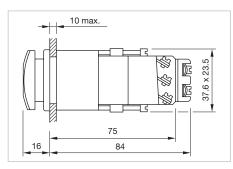
# Mushroom-head pushbutton, IP 40



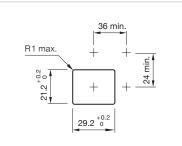
Product can differ from the current configuration.

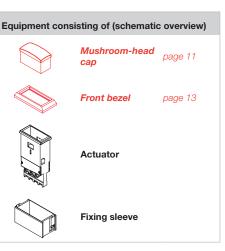
#### Additional Information

- For front dimension 24 x 36 mm
- Use only flush front bezel



Dimensions [mm]





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

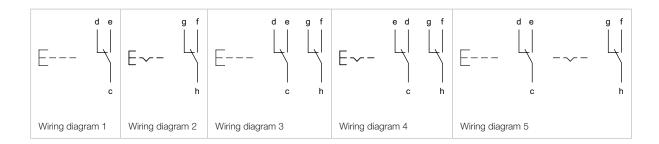
To obtain a complete unit, please select the red components from the pages shown.

Mounting cut-outs[mm]

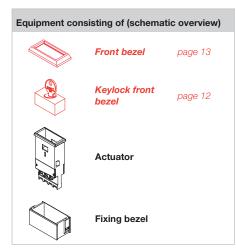
Contacts	Switching action	Terminal	Part No.	Wiring diagram	Weight
-					
Mushr	oom-head pushbutton actuator				
Mushr 1 C	room-head pushbutton actuator	Screw	02-611.011	1	0.045 kg
		Screw Screw	02-611.011 02-613.011	1	0.045 kg 0.045 kg
	В				
1 C	B C	Screw	02-613.011	2	0.045 kg

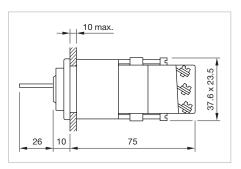
Contacts: C = Changeover

Switching action: B = Momentary, C = Maintain

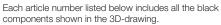


# Keylock switch 2 positions, IP 40

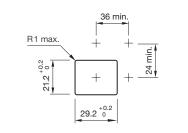




Dimensions [mm]



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



Mounting cut-outs [mm]



Product can differ from the current configuration.

#### Additional Information

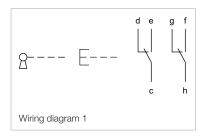
- For front dimension 24 x 36 mm
- Front plastic grey
- Keylock number YB1
- After turning the key 90° clockwise, the switch can be operated
- In the unlocked switch positions always perform a momentary action
- Two keys are supplied with each key lock switch



Switching positions (A = Rest, B = Momentary)

Product attribute	Contacts	Switching angle	Key remove	Terminal	Part No.	Wiring diagram	Gewicht
Schlüsselschalter-Vor	satz 2 Stellung	en					
A = lockable, actuated	2 C	B = 90°	A	Screw	02-690.011	1	0.055 kg
A = lockable, non-actuated or actuated	2 C	B = 90°	А	Screw	02-692.011	1	0.055 kg
A = lockable, non-actuated	2 C	B = 90°	А	Screw	02-691.011	1	0.055 kg

Contacts: C = Changeover



# 02 Flush design

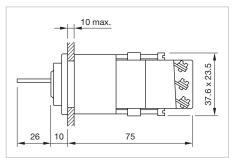
# Keylock switch 2 positions, IP 40



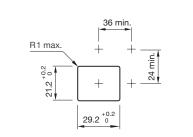
Product can differ from the current configuration.

#### Additional Information

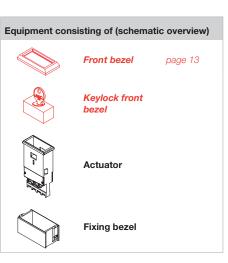
- For front dimension 24 x 36 mm
- Front plastic grey
- Keylock number YB1
- After turning the key 90° clockwise, the switch can be operated
- In the unlocked switch positions always perform a momentary action
- Two keys are supplied with each key lock switch



Dimensions [mm]



Mounting cut-outs [mm]



Each article number listed below includes all the black components shown in the 3D-drawing.

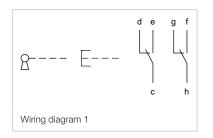
To obtain a complete unit, please select the red components from the pages shown.

	В
A	$\bigcirc$

Switching positions (A = Rest, B = Momentary)

Product attribute	Contacts	Switching angle	Key remove	Terminal	Part No.	Wiring diagram	Gewicht
Schlüsselschalter-Vorsatz	z 2 Stellung	en					
A = lockable, non-actuated, B = lockable, key not removable	2 C	B = 90°	A	Screw	02-695.011	1	0.055 kg
A = lockable, non-actuated or actuated; can be used with protective cover Part No. 22-925	2 C	B = 90°	A	Screw	02-198.011	1	0.055 kg

Contacts: C = Changeover



# Front

# Lens

# Additional Information

Material plastic

Product attribute	Dimension	Lens	Part No.	Weight
Lens				
illuminative, not suitable for film insert, ripped	17.5 x 25.4 mm	smoked translucent	02-901.1	0.004 kg
		red translucent	02-901.2	0.004 kg
		orange translucent	02-901.3	0.004 kg
		yellow translucent	02-901.4	0.004 kg
		green translucent	02-901.5	0.004 kg
		blue translucent	02-901.6	0.004 kg
		colourless transparent	02-901.7	0.004 kg
		white translucent	02-901.9	0.004 kg
lluminative, use holder for film insert	17.5 x 25.4 mm	red translucent	02-902.2	0.004 kg
		green translucent	02-902.5	0.004 kg
		colourless transparent	02-902.7	0.004 kg
non-illuminative	17.5 x 25.4 mm	black opaque	02-901.0	0.004 kg

# Keylock front bezel

# Additional Information

- Keylock number YB1
- Further lock numbers see «Technical data»

Product attribute	Dimension	Material	Colour	Part No.	Weight
	Dimonoion	matorial	Colour	i di titoi	mongine
and the second					
Keylock front k	bezel				
Keylock front b	<b>Dezel</b> 17.5 x 25.5 mm	Plastic	grey	02-980.1	0.002 kg

# 02 Accessories

# Holder

# Additional Information

• For lens with film insert

Material	Colour	Optics	Part No. We	eight
Holder				
	red	translucent	<b>02-908.2</b> 0.0	001 kg
Plastic Holder	red orange	translucent translucent		001 kg 001 kg
			<b>02-908.3</b> 0.0	-
	orange	translucent	02-908.3 0.0 02-908.4 0.0	001 kg
	orange yellow	translucent translucent	02-908.3         0.0           02-908.4         0.0           02-908.5         0.0	001 kg
	orange yellow green	translucent translucent translucent	02-908.3         0.0           02-908.4         0.0           02-908.5         0.0           02-908.6         0.0	001 kg 001 kg 001 kg

# **Diffusor plate**

#### Additional Information

• For lens with film insert

Part No.	Weight
Diffusor plate	
02-909	0.001 kg

# Front bezel flush

# Additional Information

 Lens only removable with lens remover Part No. 02-905

Front bezel		Part No.	Weight
	Front bezel flush, Front dimension 24 x 36 mm		
Pastic black		02-965.0	0.001 kg

# Front bezel raised

#### Additional Information

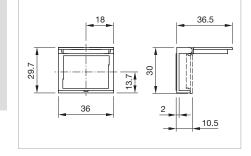
 Lens only removable with lens remover Part No. 98-969

Front bezel		Part No.	Weight
	Front bezel raised, Front dimension 24 x 36 mm		
Pastic black		02-967.0	0.001 kg

# Protective cover, IP 65

### Additional Information

- Please note that bigger minimum distances are necessary
- Use only flush front bezel
- Hinged, with means for sealing
- Front panel thickness reduces by 2 mm



Dimensions [mm]

Product attribute	Material	Optics	Dimension	Part No.	Weight
Protective cover					
for button with mounting cut-out 21.2 x 29.2 mm	Plastic	transparent	36 x 29.7 mm	22-925	0.004 kg

# 02 Accessories

# Spare key

# Additional Information

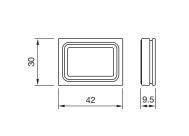
Keylock number YB1

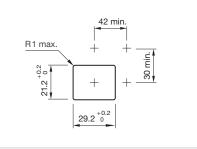
Part No.	Weight
Spare key	
02-989.001	0.001 kg

# Front protective cap, IP 65

# Additional Information

- Use only flush front bezel
- Three-part



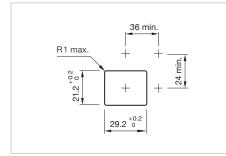


Dimensions [mm]

Mounting cut-outs [mm]

Material	Colour	Optics	Temperature	Part No.	Weight
Front prot	ective cap				
PVC	colourless	transparent	-20 +60 °	02-924	0.005 kg
			-25 +85 °	02-935	0.005 kg

# Blind plug



# Mounting cut-outs [mm]

Dimension	Material	Colour	Part No.	Weight
Blind plug				
24 x 36 mm	Plastic	black	02-949.0	0.004 kg
		grey	02-949.8	0.004 kg

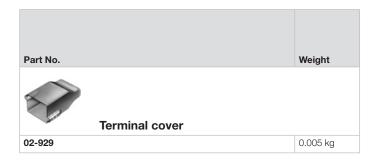


# Backside

# Terminal cover

- Additional Information

  For all connection methods
- Not suitable for indicators with built-in series resistor with lamp

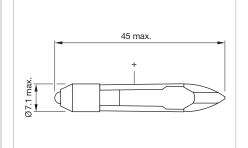


# Illumination

# Single-LED, T6.8

#### Additional Information

- For LED element fitting information see «Applica-tion guidelines» •
- Due to high surface temperatures, the series resistor must not be soldered directly to the termi-• nals of the equipment (use a terminal plate)
- When using AC/DC types with AC operation, slight flickering can occure •
- Luminous intensity data of the LEDs on direct voltage
- Electrical and optical data are measured at 25  $^{\circ}\mathrm{C}$ •
- The specified versions are built with a protection diode (halve wave rectifier) in series and the LED •
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination •
- For supply voltages above 48 V, it is necessary to use a voltage reduction element (external series resistor or transformer) •



Dimensions [mm]

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Weight
a same	Single-LED					
red	6 VDC	17 mA ±15 %	400 mcd	630 nm	10-2K06.3152	0.002 kg
	12 VAC/DC	9/17 mA ±15 %	400 mcd	630 nm	10-2K09.1072	0.002 kg
	24 VAC/DC	9/17 mA ±15 %	400 mcd	630 nm	10-2K12.1072	0.002 kg
	28 VAC/DC	9/17 mA ±15 %	400 mcd	630 nm	10-2K13.1072	0.002 kg
	48 VAC/DC	4/8 mA ±15 %	200 mcd	630 nm	10-2K19.1052	0.002 kg
vellow	6 VDC	17 mA ±15 %	340 mcd	340 nm	10-2K06.3154	0.002 kg
	12 VAC/DC	9/17 mA ±15 %	340 mcd	340 nm	10-2K09.1074	0.002 kg
	24 VAC/DC	9/17 mA ±15 %	340 mcd	340 nm	10-2K12.1074	0.002 kg
	28 VAC/DC	9/17 mA ±15 %	340 mcd	340 nm	10-2K13.1074	0.002 kg
	48 VAC/DC	4/8 mA ±15 %	180 mcd	340 nm	10-2K19.1054	0.002 kg
green	6 VDC	7 mA ±15 %	1050 mcd	525 nm	10-2K06.3155	0.002 kg
	12 VAC/DC	4/7 mA ±15 %	1050 mcd	525 nm	10-2K09.1075	0.002 kg
	24 VAC/DC	4/7 mA ±15 %	1050 mcd	525 nm	10-2K12.1075	0.002 kg
	28 VAC/DC	4/7 mA ±15 %	1050 mcd	525 nm	10-2K13.1075	0.002 kg
	48 VAC/DC	2/4 mA ±15 %	600 mcd	525 nm	10-2K19.1055	0.002 kg
blue	6 VDC	17 mA ±15 %	780 mcd	470 nm	10-2K06.3156	0.002 kg
	12 VAC/DC	9/17 mA ±15 %	780 mcd	470 nm	10-2K09.1076	0.002 kg
	24 VAC/DC	9/17 mA ±15 %	780 mcd	470 nm	10-2K12.1076	0.002 kg
	28 VAC/DC	9/17 mA ±15 %	780 mcd	470 nm	10-2K13.1076	0.002 kg
	48 VAC/DC	4/8 mA ±15 %	400 mcd	470 nm	10-2K19.1056	0.002 kg

# 02 Accessories

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Weight
white	6 VDC	6 mA ±15 %	900 mcd	x0.31/y0.32 nm	10-2K06.3159	0.002 kg
	12 VAC/DC	3/6 mA ±15 %	900 mcd	x0.31/y0.32 nm	10-2K09.1079	0.002 kg
	24 VAC/DC	3/6 mA ±15 %	900 mcd	x0.31/y0.32 nm	10-2K12.1079	0.002 kg
	28 VAC/DC	2.5/5 mA ±15 %	750 mcd	x0.31/y0.32 nm	10-2K13.1079	0.002 kg
	48 VAC/DC	2/4 mA ±15 %	600 mcd	x0.31/y0.32 nm	10-2K19.1059	0.002 kg

# Filament lamp, T6.8

Operating voltage	Operation current	Part No. We	eight
Filament lamp			
12 VAC/DC	50 mA ±10 %	<b>10-1209.1279</b> 0.0	001 kg
12 VAC/DC	100 mA ±10 %	<b>10-1209.1329</b> 0.0	001 kg
24 VAC/DC	25 mA ±10 %	<b>10-1212.1199</b> 0.0	001 kg
24 VAC/DC	50 mA ±10 %	<b>10-1212.1279</b> 0.0	001 kg
28 VAC/DC	40 mA ±10 %	<b>10-1213.1249</b> 0.0	001 kg
30 VAC/DC	40 mA ±10 %	<b>10-1214.1249</b> 0.0	01 kg
36 VAC/DC	35 mA ±10 %	<b>10-1216.1229</b> 0.0	)01 kg

# **Series resistor**

#### Additional Information

- For filament lamp 48 VAC, 25 mA
- For lamp voltage reduction
- Keep to the country specific safety instructions
- Due to high surface temperatures, the series
  resistor must not be soldered directly to the terminals of the equipment (use a terminal plate)

Operating voltage	Resistance	Part No. Weig	Jht
Series resistor	2.7 kOhm	02-904 0 0 00	3 ka
	2.7 kOhm 3.3 kOhm	<b>02-904.0</b> 0.00 <b>02-904.1</b> 0.00	
Series resistor	2.7 kOhm 3.3 kOhm 4.7 kOhm		3 kg

# Terminal plate empty

# Additional Information

• For fitting with series resistors

Product attribute	Dimension	Part No.	Weight
5 spaces	62.5 x 60 x 15 mm	02-912.1	0.025 kg
10 spaces	125 x 60 x 15 mm	02-912.2	0.045 kg
15 spaces	187.6 x 60 x 15 mm	02-912.3	0.090 kg
20 spaces	250 x 60 x 15 mm	02-912.4	0.095 kg

# 02 Accessories

# Mounting

# Lens remover

Product attribute	Part No.	Weight
for flush front bezel	02-905	0.011 kg
Lens remover		
for raised front bezel	98-968	0.004 kg

# Lamp remover

#### Additional Information

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

Product attribute	Part No.	Weight
Lamp remover		
for LED	03-996	0.027 kg
Lamp remover		
for filament lamp	61-9740.0	0.003 kg

# Actuator with snap-action switching element

#### Switching system

1 or 2 self-cleaning, snap-action switching elements. 1 or 2 double-throw contacts.

# Material

# Material of contact

Standard version: Silver (U > 20V) Special versions: (on request) Gold/Silver 700 Au/300 Ag (U < 50V) Silver/Palladium 700 Ag/300 Pd (U > 20V) for atmospheres containing sulphur

Switch housing Thermosetting material, heat-resistant

Indicator housing with reduced length Polyamide

# **Mechanical characteristics**

### Terminals

Screw terminal (with self-lifting clip): max. wire cross-section,  $2 \times 2.5 \text{ mm}^2$ max. wire cross-section of stranded cable,  $2 \times 1.5 \text{ mm}^2$ 

### **Tightening torque**

For fixing sleeve max. 20 Ncm For screw terminal max. 80 Ncm

Actuating force 6N...12N

Actuating travel 5 mm

**Mechanical lifetime** Momentary action 2 million operations Maintained action 1 million operations

# **Electrical characteristics**

**Standards** The switches comply with the "Standards for low-voltage switching devices" IEC 60947-5-1

**Rated insulation voltage** 400 VAC/440 VDC, as per IEC 60947-5-1

# Conventional free air thermal current

10A

The maximum current in continuous operation and at ambient temperature not exceeding the quoted maximum values.

#### Switch rating

400 VAC, 10 A,  $\cos\phi$  0.95, as per IEC 60947-5-1 250 VAC, 10 A, as per UL

Electric strength

2500 VAC, 50 Hz, 1 min. between all terminals and earth, as per IEC 60947-5-1

#### **Environmental conditions**

Storage temperature

-30°C...+85°C

Service temperature -25 °C ... +55 °C For indicators and illuminated pushbuttons mounted as a block, make sure the heat can escape freely.

Protection degree Front side IP 40, IP 65 with spray cover, as per IEC 60529

Shock resistance 15g for 11 ms, as per IEC 60068-2-27

Vibration resistance 10g at 10...2000 Hz, amplitude 1.0 mm, as per IEC 60068-2-6

# **Approvals**

Approbations CB (IEC 60947-5-1) CSA Germanischer Lloyd UL

Declaration of conformity

CE

# 02 Technical data

# Buzzer

#### **Buzzer system**

System Electronic non-contacting buzzer with IC oscillator

# **Material**

**Buzzer case** Thermosetting material

Front cap Polycarbonate (PC)

Front bezel Polymethylacrylate

# Mechanical characteristics

**Terminals** Screw terminal

**Tightening torque** For fixing sleeve max. 20 Ncm For screw terminal max. 80 Ncm

# **Electrical characteristics**

Frequency (tone) Approx. 2.8 kHz

# Sound pressure

 $85\,dB$  (A)  $\pm 8\,dB$  at a distance of 0.1 m Volume variable with a  $M\Omega$  potentiometer or corresponding fixed resistor

EAO reserves the right to alter specifications without further notice.

**Operation Voltage/Current** typical

10...55 VAC 10...75 VDC 25mA 15mA Environmental conditions

**Storage temperature** -40 °C ... +85 °C

**Operating temperature**  $-25 \,^{\circ}\text{C} \dots +55 \,^{\circ}\text{C}$ 

Protection degree Front side IP 40, as per IEC 60529

# Approvals

Approbations CB (IEC 60947-5-1)

Declaration of conformity CE

# **General notes**

# 1. Engraving

In addition to the most commonly used world languages, in DIN1451-3 close spacing, other typefaces are available as Scandinavian, Slavic, Greek, Russian and Polish. Red, blue and black lenses are filled with white colour. Other colour lenses are filled in black. Standard height of letters is 3 mm. If the height is not specified, we will supply 3 mm engraved letters.

# 2. Hot stamping

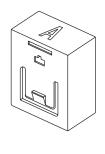
For larger series it is worth considering markings by means of hot stamping. We will pleased to advise you. For letters and figures, typefaces with 2.5 mm, 3 mm and 4 mm are available.

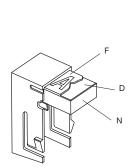
All dimensions in mm

# 3. Film inserts

Instead of using engraving the lenses can be fitted with transparent film inserts, as an alternative. For this purpose, though, it is advisible to use lenses without ripped pattern. In the case of use of a smoke-black lens the fitted film becomes readable only if the lamp is on. The film (F) is inserted in the cap. To ensure even illumination a diffusor (D) is recommended, which is inserted beneath the film. If, on the other hand, the diffusor is inserted above the film, the lettering only becomes legible when the lamp is alight. To hold the film and diffusor in position, the use of a holder (N) is advised. The film thickness is 0.2 mm.

Film insert max. size	Height of letters h	Number of lines	Number of capital letters per line (target value)	Number of small letters per line (target value)	Image
14.3 x 22.4	3	4	11	13	B1
			7-8	8-9	B2
	4	2	7	9	B1
		4	5	5-6	B2
	5	2	5-6	6-7	B1
		3	3-4	4	B2
	6	1	5	6	B1
		2	3	4	B2
	8	1	3	4	B1
			2	2	B2







ABC

abc





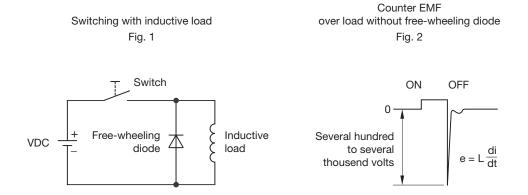
# **Suppressor circuits**

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. 12 VDC) see Fig. 2.

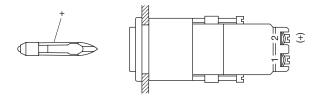
The free-wheeling diode should be chosen so that the reverse breakdown voltage is greater than the voltage driving the inductive load. The DC blocking voltage (VR) of the free-wheeling diode can be found in the datasheet of a diode. The forward current should be equal or greater than the maximum current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

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



## **LED** polarity

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





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