

# Series 41

## Characteristics

The rectangular design of the Series 41 (18x24 mm) makes it especially suited:

- Raised design
- PCB (with adaptor)

The series features a compact double-lit element that can be fitted from the front as a snap-on module.

## Functions

The Series 41 incorporates the following functions:

- Indicator
- Illuminated pushbutton

## Market segments

The EAO Series 41 is especially suited for applications in the segment:

- Machinery and Automation

Please refer to the EAO website to obtain detailed information regarding this series [www.products.eao.com](http://www.products.eao.com)  
Configure a product to your exact needs and request a quotation.





**Overview****Raised design**

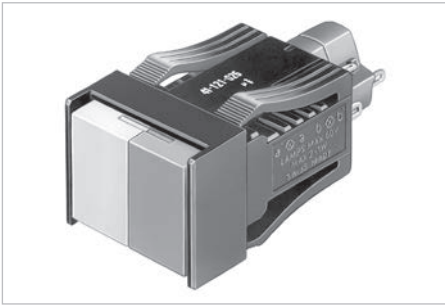
Indicator 4

Illuminated pushbutton 5

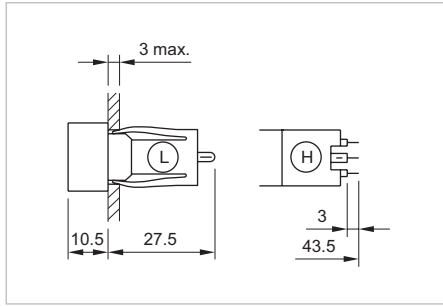
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# 41 Raised design

## Indicator, IP 40



Product can differ from the current configuration.



Dimensions [mm]  
L = Solder terminal,  
H = Universal terminal 2.0 x 0.5 mm

### Equipment consisting of (schematic overview)



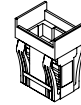
**Lens**

page 7



**2 LEDs**

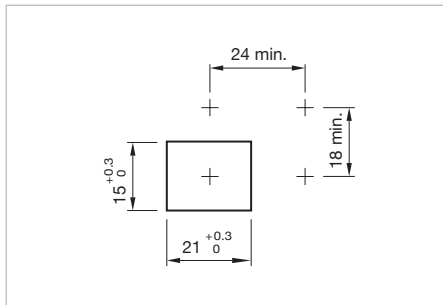
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**Actuator**

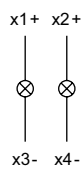
Each Part Number listed below includes all the black components shown in the 3D-drawing.

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



Mounting cut-outs [mm]

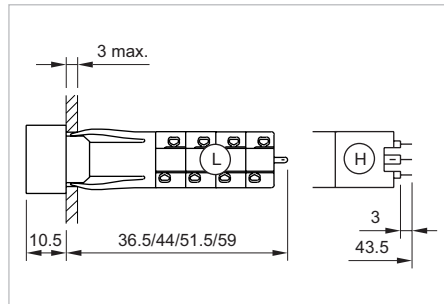
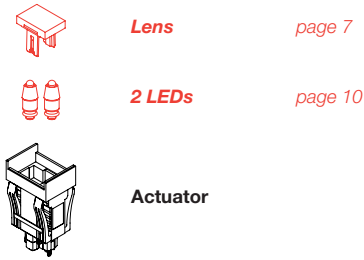
Terminal	Part No.	Wiring diagram	Weight
 <p><b>Indicator, Front dimension 18 x 24 mm</b></p>			
Solder	<b>41-040.005</b>	1	0.009 kg
 <p><b>Indicator, Front dimension 18 x 24 mm</b></p>			
Universal 2.0 x 0.5 mm	<b>41-041.006</b>	1	0.009 kg



Wiring diagram 1

## Illuminated pushbutton, IP 40

### Equipment consisting of (schematic overview)

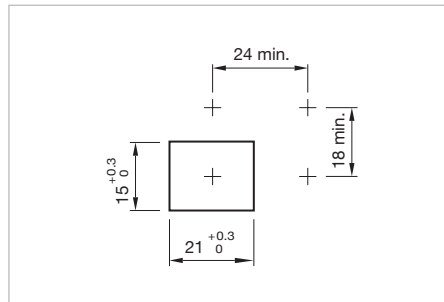


Product can differ from the current configuration.



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]  
L = Solder terminal,  
H = Universal terminal 2.0 x 0.5 mm

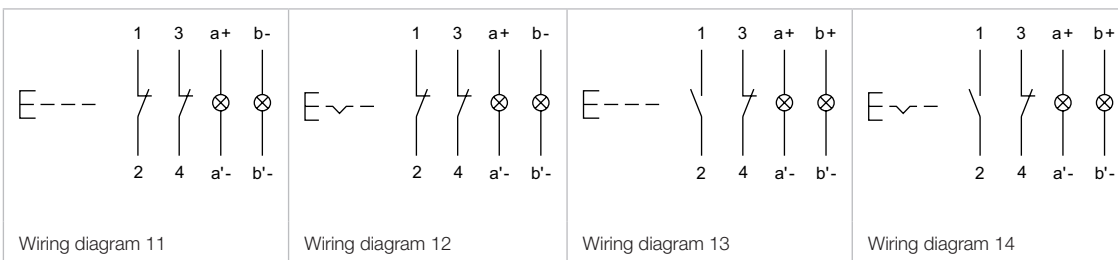
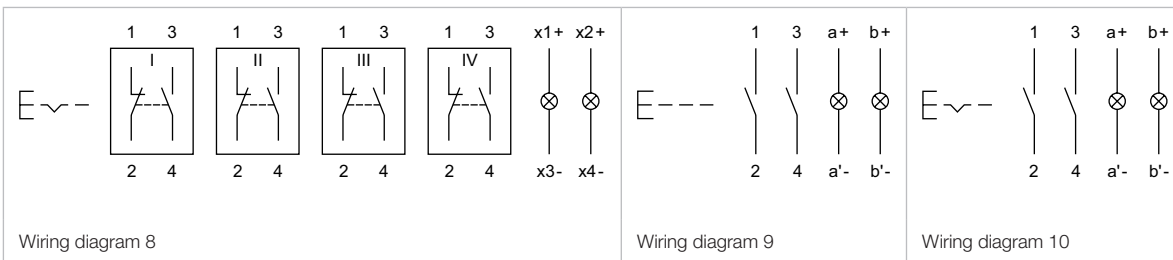
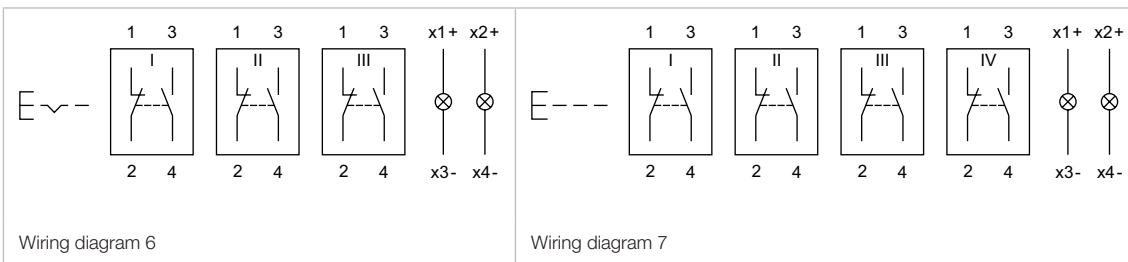
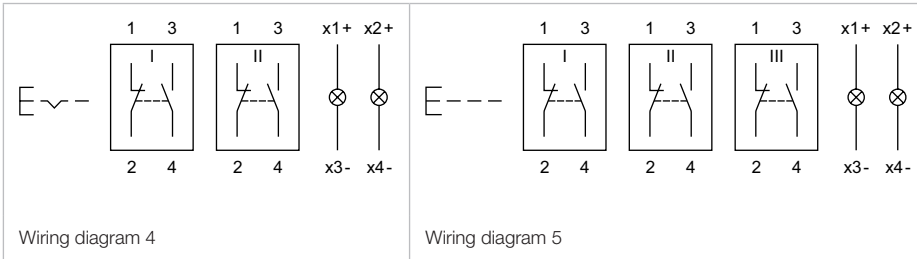
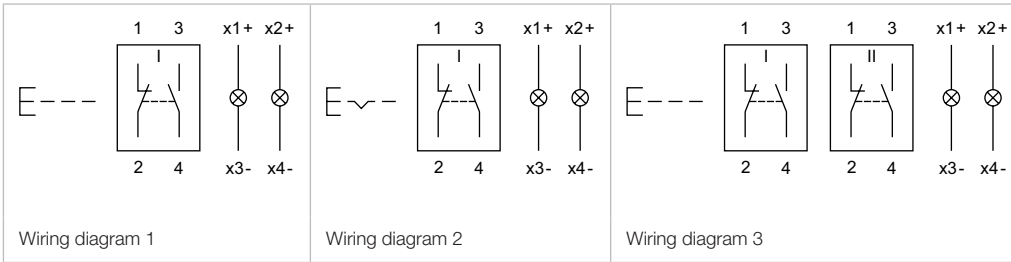


Mounting cut-outs [mm]

Switching system	Contacts	Switching action	Terminal	Part No.	Wiring diagram	Weight
 <p><b>Illuminated pushbutton, Front dimension 18 x 24 mm</b></p>						
Snap-action switching element	1 NC + 1 NO	B	Solder	<b>41-121.0252</b>	1	0.011 kg
		C	Solder	<b>41-261.0252</b>	2	0.011 kg
	2 NC + 2 NO	B	Solder	<b>41-122.0252</b>	3	0.012 kg
		C	Solder	<b>41-262.0252</b>	4	0.013 kg
	3 NC + 3 NO	B	Solder	<b>41-123.0252</b>	5	0.014 kg
		C	Solder	<b>41-263.0252</b>	6	0.014 kg
	4 NC + 4 NO	B	Solder	<b>41-124.0252</b>	7	0.015 kg
		C	Solder	<b>41-264.0252</b>	8	0.015 kg
 <p><b>Illuminated pushbutton, Front dimension 18 x 24 mm</b></p>						
Low-level element	2 NO	B	Universal 2.0 x 0.5 mm	<b>41-421.036</b>	9	0.014 kg
		C	Universal 2.0 x 0.5 mm	<b>41-461.036</b>	10	0.014 kg
	2 NC	B	Universal 2.0 x 0.5 mm	<b>41-422.036</b>	11	0.014 kg
		C	Universal 2.0 x 0.5 mm	<b>41-462.036</b>	12	0.014 kg
	1 NC + 1 NO	B	Universal 2.0 x 0.5 mm	<b>41-423.036</b>	13	0.014 kg
		C	Universal 2.0 x 0.5 mm	<b>41-463.036</b>	14	0.014 kg


Contacts: NC = Normally closed, NO = Normally open  
Switching action: B = Momentary, C = Maintained

# 41 Raised design




Front

Lens plastic single-colour

Product attribute	Dimension	Lens	Part No.	Weight		
 <p><b>Lens plastic single-colour</b></p>	15.3 x 21.5 mm	red transparent	<b>41-903.2</b>	0.001 kg		
		orange transparent	<b>41-903.3</b>	0.001 kg		
flat, illuminative	15.3 x 21.5 mm	yellow transparent	<b>41-903.4</b>	0.001 kg		
		green transparent	<b>41-903.5</b>	0.001 kg		
		blue transparent	<b>41-903.6</b>	0.001 kg		
		colourless transparent	<b>41-903.7</b>	0.001 kg		
		flat, illuminative, less suitable for film insert	15.3 x 21.5 mm	red transparent	<b>41-904.2</b>	0.001 kg
				orange transparent	<b>41-904.3</b>	0.001 kg
yellow transparent	<b>41-904.4</b>			0.001 kg		
green transparent	<b>41-904.5</b>			0.001 kg		
flat, illuminative, less suitable for film insert	15.3 x 21.5 mm	colourless transparent	<b>41-904.7</b>	0.001 kg		

Lens plastic bi-colour

Product attribute	Dimension	Lens	Part No.	Weight		
 <p><b>Lens plastic bi-colour</b></p>	15.3 x 21.5 mm	red-orange transparent	<b>41-907.2/3</b>	0.002 kg		
		red-yellow transparent	<b>41-907.2/4</b>	0.002 kg		
flat, illuminative	15.3 x 21.5 mm	red-green transparent	<b>41-907.2/5</b>	0.002 kg		
		red-blue transparent	<b>41-907.2/6</b>	0.002 kg		
		red-colourless transparent	<b>41-907.2/7</b>	0.002 kg		
		orange-green transparent	<b>41-907.3/5</b>	0.002 kg		
		orange-blue transparent	<b>41-907.3/6</b>	0.002 kg		
		orange-colourless transparent	<b>41-907.3/7</b>	0.002 kg		
		yellow-green transparent	<b>41-907.4/5</b>	0.002 kg		
		yellow-blue transparent	<b>41-907.4/6</b>	0.002 kg		
		yellow-colourless transparent	<b>41-907.4/7</b>	0.002 kg		
		green-blue transparent	<b>41-907.5/6</b>	0.002 kg		
		green-colourless transparent	<b>41-907.5/7</b>	0.002 kg		
		blue-colourless transparent	<b>41-907.6/7</b>	0.002 kg		
		colourless-colourless transparent	<b>41-907.7/7</b>	0.002 kg		
		flat, illuminative, less suitable for film insert	15.3 x 21.5 mm	red-orange transparent	<b>41-908.2/3</b>	0.002 kg
				red-yellow transparent	<b>41-908.2/4</b>	0.002 kg
				red-green transparent	<b>41-908.2/5</b>	0.002 kg
red-colourless transparent	<b>41-908.2/7</b>			0.002 kg		
orange-yellow transparent	<b>41-908.3/4</b>			0.002 kg		
orange-green transparent	<b>41-908.3/5</b>			0.002 kg		

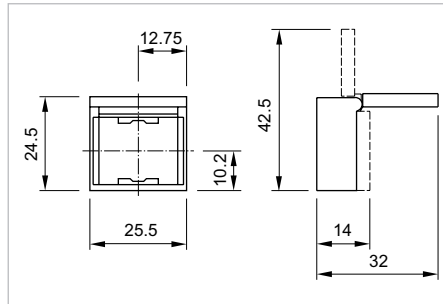
# 41 Accessories

Product attribute	Dimension	Lens	Part No.	Weight
flat, illuminative, less suitable for film insert	15.3 x 21.5 mm	orange-colourless transparent	<b>41-908.3/7</b>	0.002 kg
		yellow-green transparent	<b>41-908.4/5</b>	0.002 kg
		yellow-colourless transparent	<b>41-908.4/7</b>	0.002 kg
		green-colourless transparent	<b>41-908.5/7</b>	0.002 kg
		colourless-colourless transparent	<b>41-908.7/7</b>	0.002 kg


## Protective cover, IP 40

### Additional Information

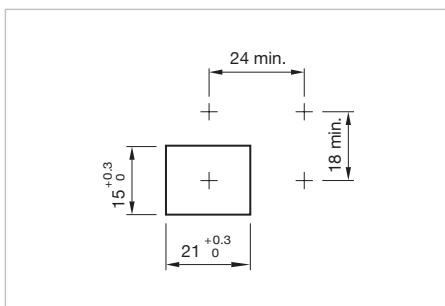
- Hinged, with means for sealing
- Front panel thickness reduces by 2 mm
- Please note that bigger minimum distances are necessary




Dimensions [mm]

Product attribute	Dimension	Material	Optics	Part No.	Weight
 <p><b>Protective cover</b></p>					
for button with front dimension 15 x 21 mm	18 x 24 mm	Plastic	transparent	<b>41-925</b>	0.002 kg

## Blind plug




Einbauöffnungen [mm]

Dimension	Material	Colour	Part No.	Weight
 <p><b>Blind plug</b></p>				
18 x 24 mm	Plastic	black	<b>41-947.0</b>	0.002 kg




Rear side

PCB plug-in base


Dimension	Pins	Terminal	Part No.	Weight
 <p><b>PCB plug-in base</b></p>				
23.8 x 17.7 x 9.8 mm	axial	PCB	<b>41-940</b>	0.004 kg

The component layouts you will find from page 14

Flat receptacle

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

Insulation sleeve

Product attribute	Part No.	Weight
 <p><b>Insulation sleeve</b></p>		
for flat receptacle 2.0 mm	<b>31-928</b>	0.001 kg

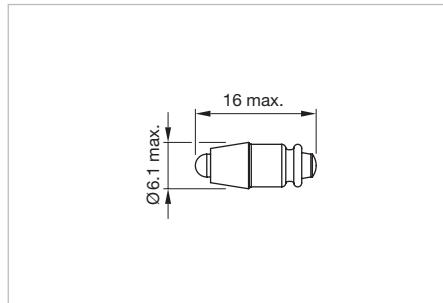
# 41 Accessories

## Illumination


### LED, T1 3/4 MG

#### Additional Information

- Due to high surface temperatures, the series resistor must not be soldered directly to the terminals of the equipment (use a terminal plate)
- Order two LEDs
- When using AC/DC types with AC operation, slight flickering can occur
- Luminous intensity data of the LEDs on direct voltage
- Electrical and optical data are measured at 25 °C
- The specified versions are built with a protection diode (half wave rectifier) in series and the LED
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination




Dimensions [mm]

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Weight
 <p><b>Single-LED</b></p>						
Single-LED red	6 VDC +10 %	15 mA ±15 %	350 mcd	630 nm	<b>10-2J06.3142</b>	0.002 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	<b>10-2J09.1062</b>	0.002 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	<b>10-2J12.1062</b>	0.002 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	<b>10-2J13.1062</b>	0.002 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	200 mcd	630 nm	<b>10-2J19.1042</b>	0.002 kg
Single-LED yellow	6 VDC +10 %	15 mA ±15 %	300 mcd	587 nm	<b>10-2J06.3144</b>	0.002 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	<b>10-2J09.1064</b>	0.002 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	<b>10-2J12.1064</b>	0.002 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	<b>10-2J13.1064</b>	0.002 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	180 mcd	587 nm	<b>10-2J19.1044</b>	0.002 kg
Single-LED green	6 VDC +10 %	7 mA ±15 %	1050 mcd	525 nm	<b>10-2J06.3145</b>	0.002 kg
	12 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	<b>10-2J09.1065</b>	0.002 kg
	24 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	<b>10-2J12.1065</b>	0.002 kg
	28 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	<b>10-2J13.1065</b>	0.002 kg
	48 VAC/DC +10 %	2/4 mA ±15 %	600 mcd	525 nm	<b>10-2J19.1045</b>	0.002 kg
Single-LED blue	6 VDC +10 %	15 mA ±15 %	680 mcd	470 nm	<b>10-2J06.3146</b>	0.002 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	650 mcd	470 nm	<b>10-2J09.1066</b>	0.002 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	650 mcd	470 nm	<b>10-2J12.1066</b>	0.002 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	650 mcd	470 nm	<b>10-2J13.1066</b>	0.002 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	400 mcd	470 nm	<b>10-2J19.1046</b>	0.002 kg
Single-LED white	6 VDC +10 %	15 mA ±15 %	750 mcd	x0.31/y0.32 nm	<b>10-2J06.3149</b>	0.002 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	700 mcd	x0.31/y0.32 nm	<b>10-2J09.1069</b>	0.002 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	700 mcd	x0.31/y0.32 nm	<b>10-2J12.1069</b>	0.002 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	700 mcd	x0.31/y0.32 nm	<b>10-2J13.1069</b>	0.002 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	400 mcd	x0.31/y0.32 nm	<b>10-2J19.1049</b>	0.002 kg

**Filament lamp, T1 3/4 MG**


- Order two filament lamps

Operating voltage	Operation current	Part No.	Weight
 <p><b>Filament lamp</b></p>			
6 VAC/DC	120 mA±10 %	<b>10-1306.1349</b>	0.001 kg
6.3 VAC/DC	200 mA±10 %	<b>10-1307.1369</b>	0.001 kg
12 VAC/DC	75 mA±10 %	<b>10-1309.1309</b>	0.001 kg
14 VAC/DC	80 mA±10 %	<b>10-1310.1319</b>	0.001 kg
18 VAC/DC	40 mA±10 %	<b>10-1311.1249</b>	0.001 kg
24 VAC/DC	35 mA±10 %	<b>10-1312.1229</b>	0.001 kg
28 VAC/DC	30 mA±10 %	<b>10-1313.1209</b>	0.001 kg
28 VAC/DC	40 mA±10 %	<b>10-1313.1249</b>	0.001 kg
36 VAC/DC	20 mA±10 %	<b>10-1316.1179</b>	0.001 kg
36 VAC/DC	30 mA±10 %	<b>10-1316.1209</b>	0.001 kg
48 VAC/DC	20 mA±10 %	<b>10-1319.1179</b>	0.001 kg
48 VAC/DC	25 mA±10 %	<b>10-1319.1199</b>	0.001 kg

**Series resistor**


**Additional Information**

- Only 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.	Weight
 <p><b>Series resistor</b></p>			
110 VAC	2.7 kOhm	<b>02-904.0</b>	0.003 kg
125 VAC	3.3 kOhm	<b>02-904.1</b>	0.003 kg
145 VAC	4.7 kOhm	<b>02-904.3</b>	0.003 kg
240 VAC	10 kOhm	<b>02-904.7</b>	0.003 kg

# 41 Accessories

## Terminal plate empty

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

Mounting


Lens remover

Product attribute	Part No.	Weight
 <p><b>Lens remover</b></p>		
for raised design	<b>02-905</b>	0.011 kg


Lamp remover

Additional Information

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

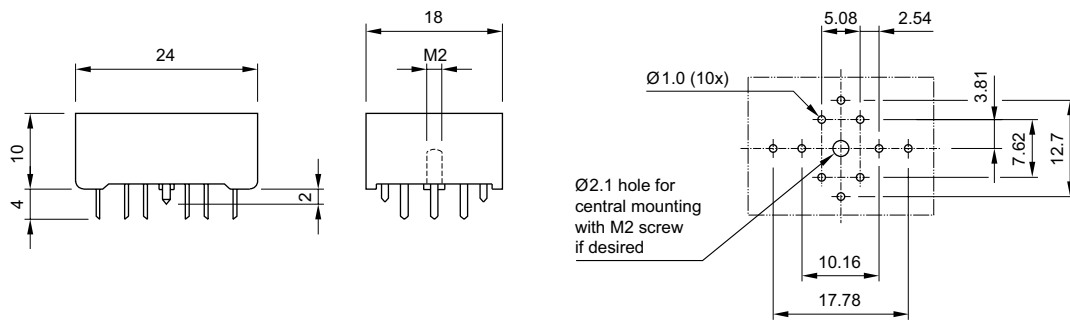
Part No.	Weight
 <p><b>Lamp remover</b></p>	
<b>61-9740.0</b>	0.003 kg

Dismantling tool

Part No.	Weight
 <p><b>Dismantling tool</b></p>	
<b>41-939</b>	0.027 kg

# 41 Drawings

## Drawings



**Actuator with snap-action switching element**
**Switching system**

Self-cleaning, double-break, snap action switching system (with contact gap 2 x 0.5 mm).

1 normally closed or 1 normally open contact per element.  
Up to 4 switching elements can be on a pushbutton (max. 4 normally closed and 4 normally open contacts).

**Material**
**Material of contacts**

gold-plated silver

**Switching element**

Soldering terminal: PA 6.6 Ultramid

**Actuator case**

Polysulfone, heat-resistant and self-extinguishing

**Mechanical characteristics**
**Connection method**

Snap-action switching element with tinned soldering terminals at the sides:

max. wire diameter: 2 wires à 1.2 mm

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

**Actuating force**

2-5.5 N, depending on the number of switching elements

**Actuating travel**

3 mm

**Mechanical life**

Momentary action 2 million cycles of operation

Maintained action 1 million cycles of operation

**Electrical characteristics**
**Standards**

IEC 61058 EN 61058

**Rated voltage**

250 VAC/VDC

**Rated current**

5 A

**Volume resistance**

Starting value  $\leq 50 \text{ m}\Omega$

**Conventional free air thermal current  $I_{th}$** 

5 A

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

**Switch rating**

250 VAC/5 A ( $\cos\varphi 1$ )

250 VAC/3 A ( $\cos\varphi 0.3$ )

Switch rating AC,  $\cos\varphi 0.7$ :

Voltage 125 V 250 V

Current 3 A 2 A

Switch rating DC (inductive), L:R = 30 ms

Voltage 24 V 60 V 110 V 220 V

Current 2 A 0.7 A 0.2 A 0.1 A

**Electric strength**

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

**Protection class**

II

**Environmental conditions**
**Storage temperature**

-40 °C to +85 °C

**Service temperature**

-25 °C to +55 °C

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

**Degree of protection**

Front as per IEC 60529: IP 40

**Resistance to shock**

(single impacts, semi-sinusoidal)

15 g for 11 ms as per IEC 60512-4-3, IEC 60068-2-27

**Resistance to vibration**

(sinusoidal)

10 g at 0-2000 Hz, amplitude 1.5 mm as per IEC 60512-4-4, IEC 60068-2-6

**Resistance to climate**

Standard condition as per IEC 60068-2-3 and 2-30

Changing condition as per IEC 60068-2-14 and 2-33

**Approvals**
**Approbations**

CB (IEC 61058)

CSA

UL

Germanischer Lloyd

**Declaration of conformity**

CE

# 41 Technical data

## Actuator with Low Level switching element

### Switching system

This low level switching element was designed for switching low powers in electronic circuits. The mechanism assures reliable switching of loads ranging from a few mA/mV up to 100mA/42 VAC/VDC.

Single-break momentary contact, as normally open or normally closed with 4 independent points of contact. 2 momentary contacts per switching element; combination of normally open and normally closed is possible.

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

### Material

#### Actuator case

Polysulfone, heat-resistant and self-extinguishing

#### Material of contacts

gold-plated

#### Switching element

Polysulfone, heat-resistant and self-extinguishing

### Mechanical characteristics

#### Connection method

The universal terminals permit these units to be mounted on printed circuit boards (PCB). These terminals can also be used as soldering or plug-in terminals.

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.

Soldering terminal

max. wire diameter: 2 wires of 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

#### Actuating force

3-3.5 N

#### Actuating travel

3 mm

### Rebound time

Typ. < 100 μs

### Mechanical life

Momentary action 5 million cycles of operation

Maintained action 1 million cycles of operation

### Electrical characteristics

#### Volume resistance

starting value ≤ 50 mΩ

#### Switch rating

10 μA/100 μV to 100 μA at 42 VAC/VDC

#### Electric strength

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

#### Protection class

II

### Environmental conditions

#### Storage temperature

-40 °C to +85 °C

#### Service temperature

-25 °C to +55 °C

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

#### Degree of protection

Front as per IEC 60529: IP 40

#### Resistance to shock

(single impacts, semi-sinusoidal)

15 g for 11 ms as per IEC 60512-4-3, IEC 60068-2-27

#### Resistance to climate

Standard condition as per IEC 60068-2-3 and 2-30

Changing condition as per IEC 60068-2-14 and 2-33



## General notes

### 1. Engraving

#### Typefaces

In addition to the most commonly used world languages (see DIN 1451) with close spacing, the following typefaces are available: Scandinavian, Slavian, Greek, Russian.

#### Coloured filling of engraving

Specify whether engraving should be on the diffuser, or on the lens. Specify the infill colour, character height and the text or symbol orientation.

#### Symbols

A list of the symbols available can be supplied on request.

### 2. Hot stamping

For large batches it is worth while to have the lettering produced by hot stamping.

#### Typefaces

For letters and figures, typefaces with 2.5 mm, 3 mm and 4 mm are available.

#### Symbols

A list of the symbols available can be supplied on request.

### 3. Film inserts

Instead of using engraving, the lenses can be fitted with transparent film inserts. For this purpose, though, it is advisable to use transparent lenses.

To insert the film, the feet of the lens support have to be pushed together far enough to enable the lens to be lifted off easily.

#### Film dimensions

max. 12.7 x 18.7 mm (monocolour lens)

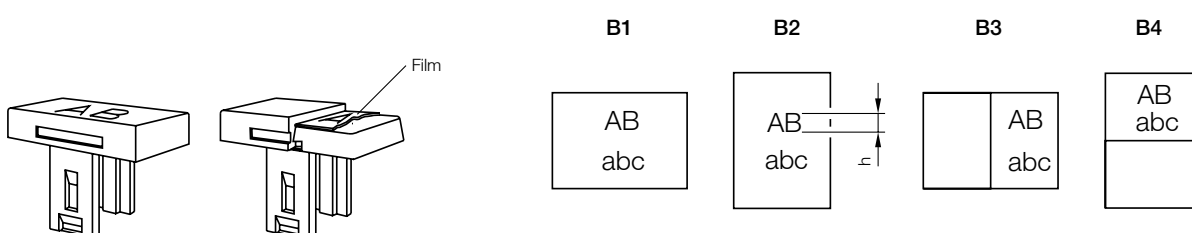
max. 9 x 12.7 mm (two-colour lens)

#### Film thickness 0.2 mm

Important: Before engraving, check the position of the illuminated pushbuttons or indicator.

All dimensions in mm

Height of letters h	Thickness of letters s	Number of lines	Number of capital letters per line (target value)	Number of small letters per line (target value)	Image
2.5	0.4	4	11	12	B1
3	0.4	3	9-10	10-11	B1
4	0.5	2	7	7-8	B1
5	0.5	2	5-6	6	B1
6	0.6	1	4-5	5	B1
8	0.6	1	3-4	3-4	B1
2.5	0.4	5	7-8	8	B2
3	0.4	4	6-7	7	B2
4	0.5	3	4-5	5	B2
5	0.5	2	3-4	4	B2
6	0.6	2	3	3-4	B2
8	0.6	1	2-3	2-3	B2
2.5	0.4	4	5-6	5-6	B3
3	0.4	3	4-5	5	B3
4	0.5	2	3	3-4	B3
5	0.5	2	2-3	3	B3
6	0.6	1	2	2-3	B3
8	0.6	1	1-2	1-2	B3
2.5	0.4	2	7-8	8	B4
3	0.4	2	6-7	7	B4
4	0.5	1	4-5	5	B4
5	0.5	1	3-4	4	B4
6	0.6	1	3	3-4	B4
8	0.6	1	2-3	2-3	B4



# 41 Application guidelines

## Suppressor circuits

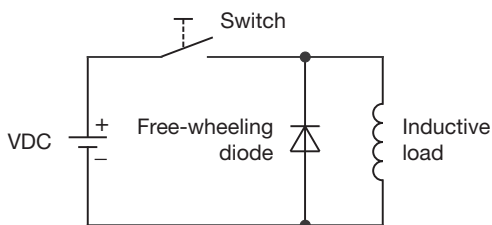
When switching inductive loads such as relays, DC motors, and DC solenoids, it is always important to absorb surges (e.g. with a diode) to protect the contacts. When these inductive loads are switched off, a counter emf can severely damage switch contacts and greatly shorten lifetime.

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.

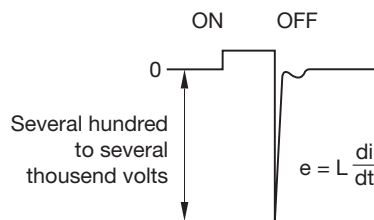
The free-wheeling diode should be chosen so that the reverse breakdown voltage is greater than the voltage driving the inductive load. The DC blocking voltage ( $V_R$ ) of the free-wheeling diode can be found in the datasheet of a diode. The forward current should be equal or greater than the maximum 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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10-2J12.1069	10		
10-2J13.1062	10		
10-2J13.1064	10		
10-2J13.1065	10		
10-2J13.1066	10		
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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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