Series 41

Characteristics
The rectangular design of the Series 41 (18 x 24 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

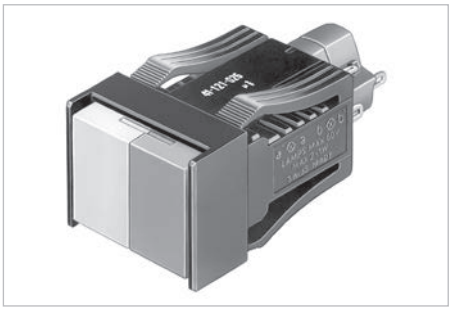
Please refer to the EAO website to obtain detailed information regarding this series **www.products.eao.com**
Configure a product to your exact needs and request a quotation.

Overview

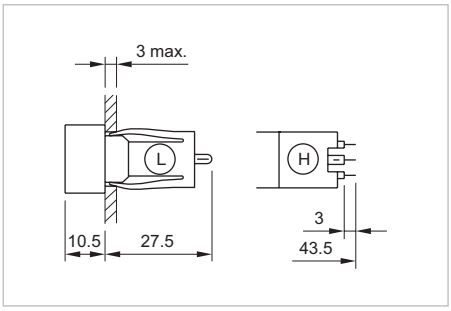
Raised design	
Indicator	4
Illuminated pushbutton	5
Accessories	**7**
Drawings	**14**
Technical data	**15**
Marking	**17**
Guidelines for use	**18**
Index	**19**

41 Raised design

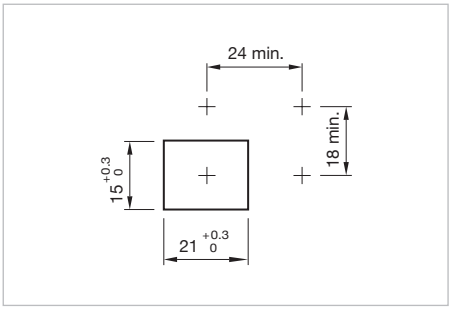
Indicator, IP 40



Product can differ from the current configuration.



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

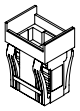


Mounting cut-outs [mm]

Equipment consisting of (schematic overview)

Lens *page 7*

2 LEDs *page 10*

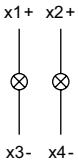


Actuator

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.

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



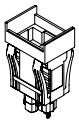
Wiring diagram 1

Illuminated pushbutton, IP 40

Equipment consisting of (schematic overview)

Lens *page 7*

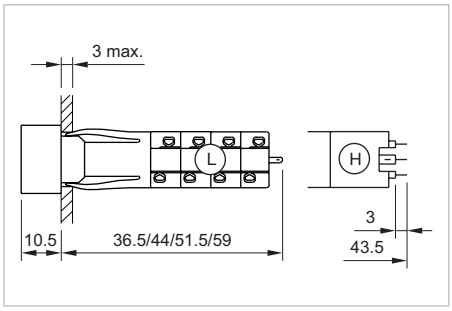
2 LEDs *page 10*



Actuator

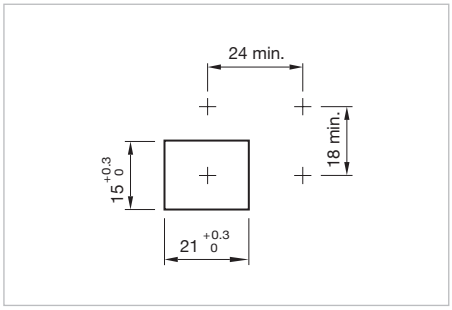
Each Part Number listed below includes all the black components shown in the 3D-drawing.

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



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

Product can differ from the current configuration.

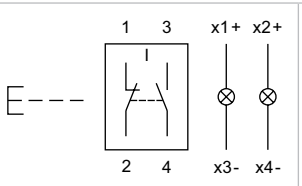


Mounting cut-outs [mm]

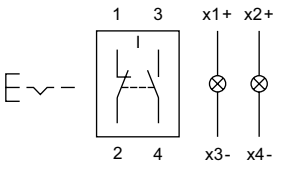
Switching system	Contacts	Switching action	Terminal	Part No.	Wiring diagram	Weight
Illuminated pushbutton, Front dimension 18 x 24 mm						
Snap-action switching element	1 NC + 1 NO	B	Solder	**41-121.0252**	1	0.011 kg
		C	Solder	**41-261.0252**	2	0.011 kg
	2 NC + 2 NO	B	Solder	**41-122.0252**	3	0.012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

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

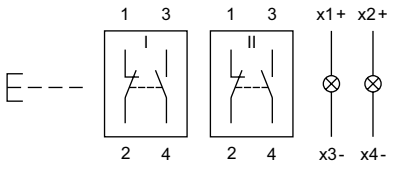
41 Raised design



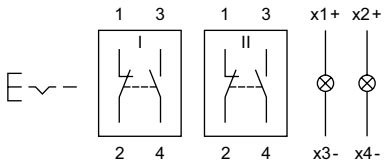
Wiring diagram 1



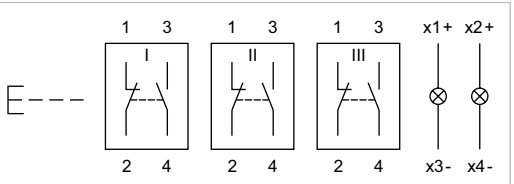
Wiring diagram 2



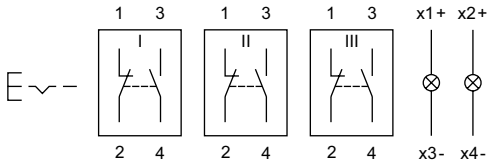
Wiring diagram 3



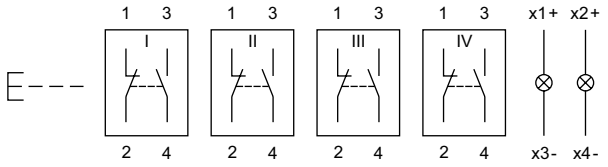
Wiring diagram 4



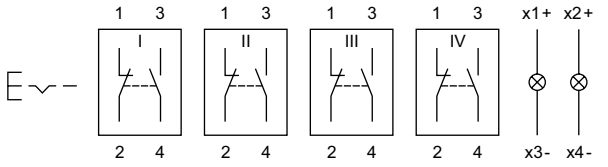
Wiring diagram 5



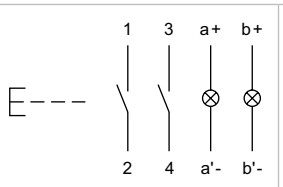
Wiring diagram 6



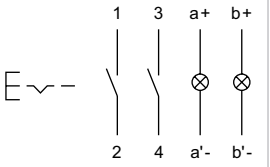
Wiring diagram 7



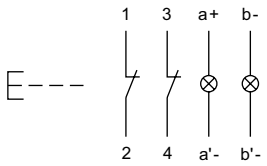
Wiring diagram 8



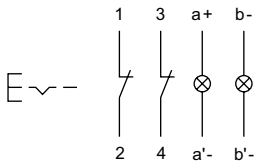
Wiring diagram 9



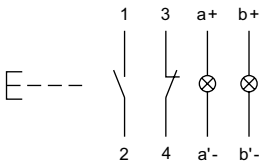
Wiring diagram 10



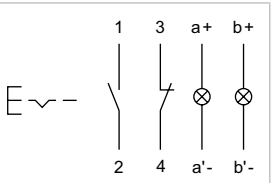
Wiring diagram 11



Wiring diagram 12



Wiring diagram 13



Wiring diagram 14

Front

Lens plastic single-colour

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

Lens plastic bi-colour

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

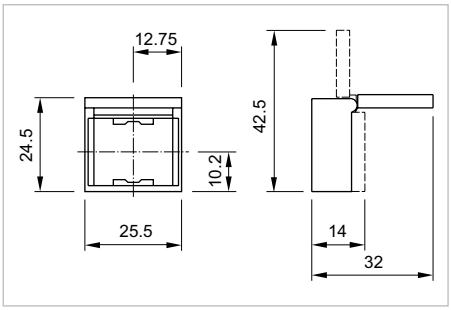
41 Accessories

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

Protective cover, IP 40

Additional Information

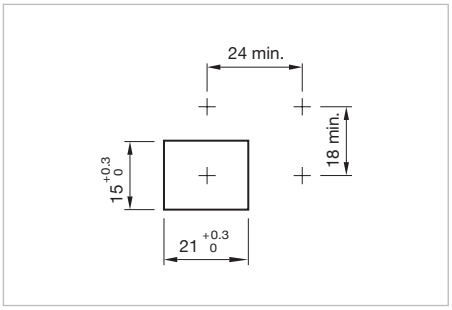
- Hinged, with means for sealing
- Front panel thickness reduces by 2 mm
- Please note that bigger minimum distances are necessary



Dimensions [mm]

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

Blind plug



Einbauöffnungen [mm]

Dimension	Material	Colour	Part No.	Weight
Blind plug				
18 x 24 mm	Plastic	black	**41-947.0**	0.002 kg

Rear side

PCB plug-in base

Dimension	Pins	Terminal	Part No.	Weight
PCB plug-in base				
23.8 x 17.7 x 9.8 mm	axial	PCB	**41-940**	0.004 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	**31-945**	0.001 kg

Insulation sleeve

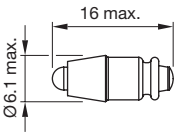
Product attribute	Part No.	Weight
Insulation sleeve		
for flat receptacle 2.0 mm	**31-928**	0.001 kg

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 occure
- 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 (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



Dimensions [mm]

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

Filament lamp, T1 3/4 MG

- Order two filament lamps

Operating voltage	Operation current	Part No.	Weight
Filament lamp			
6 VAC/DC	120 mA±10 %	**10-1306.1349**	0.001 kg
6.3 VAC/DC	200 mA±10 %	**10-1307.1369**	0.001 kg
12 VAC/DC	75 mA±10 %	**10-1309.1309**	0.001 kg
14 VAC/DC	80 mA±10 %	**10-1310.1319**	0.001 kg
18 VAC/DC	40 mA±10 %	**10-1311.1249**	0.001 kg
24 VAC/DC	35 mA±10 %	**10-1312.1229**	0.001 kg
28 VAC/DC	30 mA±10 %	**10-1313.1209**	0.001 kg
28 VAC/DC	40 mA±10 %	**10-1313.1249**	0.001 kg
36 VAC/DC	20 mA±10 %	**10-1316.1179**	0.001 kg
36 VAC/DC	30 mA±10 %	**10-1316.1209**	0.001 kg
48 VAC/DC	20 mA±10 %	**10-1319.1179**	0.001 kg
48 VAC/DC	25 mA±10 %	**10-1319.1199**	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
Series resistor			
110 VAC	2.7 kOhm	**02-904.0**	0.003 kg
125 VAC	3.3 kOhm	**02-904.1**	0.003 kg
145 VAC	4.7 kOhm	**02-904.3**	0.003 kg
240 VAC	10 kOhm	**02-904.7**	0.003 kg

41 Accessories

Terminal plate empty

Product attribute	Dimension	Part No.	Weight
Terminal plate empty			
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

Mounting

Lens remover

Product attribute	Part No.	Weight
Lens remover		
for raised design	**02-905**	0.011 kg

Lamp remover

Additional Information

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

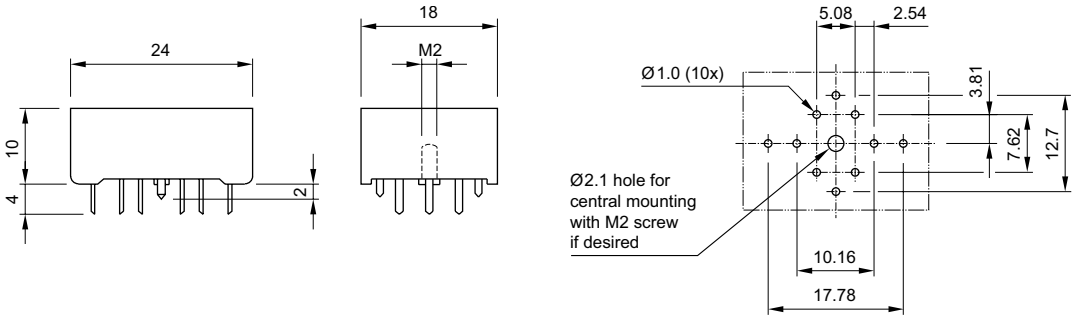
Part No.	Weight
Lamp remover	
61-9740.0	0.003 kg

Dismantling tool

Part No.	Weight
Dismantling tool	
41-939	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^2

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 61 058

Rated voltage
250 VAC / VDC

Rated current
5 A

Volume resistance
Starting value ≤ 50 mΩ

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 (cosφ 1)
250 VAC / 3 A (cosφ 0.3)

Switch rating AC, cos φ 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 100 mA/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^2

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

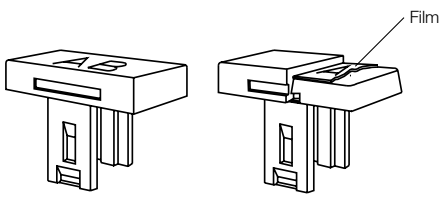
Instead of using engraving, the lenses can be fitted with transparent film inserts. For this purpose, though, it is advisable to use transparent lenses.
To insert the film, the feet of the lens support have to be pushed together far enough to enable the lens to be lifted off easily.

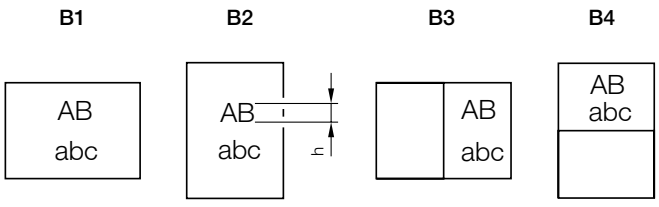
Film dimensions
max. 12.7 x 18.7 mm (monocolour lens)
max. 9 x 12.7 mm (two-colour lens)

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





Suppressor circuits

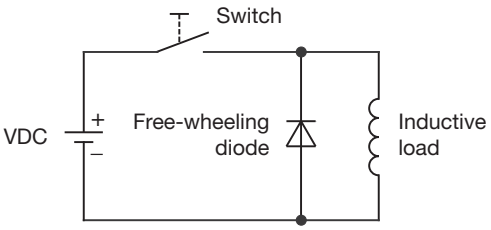
When switching inductive loads such as relays, DC motors, and DC solenoids, it is always important to absorb surges (e. g. with a diode) to protect the contacts. When these inductive loads are switched off, a counter emf can severely damage switch contacts and greatly shorten lifetime.

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.

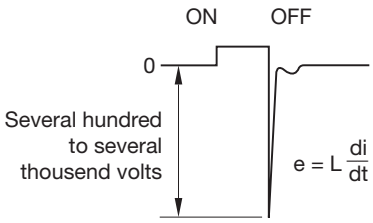
The free-wheeling diode should be chosen so that the reverse breakdown voltage is greater than the voltage driving the inductive load. The DC blocking voltage (VR) of the free-wheeling diode can be found in the datasheet of a diode. The forward current should be equal or greater than the maximum current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

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

Switching with inductive load
Fig. 1



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



Index from Part No.

Part No.	Page
02-904.0	11
02-904.1	11
02-904.3	11
02-904.7	11
02-905	13
02-912.1	12
02-912.2	12
02-912.3	12
02-912.4	12
10-1306.1349	11
10-1307.1369	11
10-1309.1309	11
10-1310.1319	11
10-1311.1249	11
10-1312.1229	11
10-1313.1209	11
10-1313.1249	11
10-1316.1179	11
10-1316.1209	11
10-1319.1179	11
10-1319.1199	11
10-2J06.3142	10
10-2J06.3144	10
10-2J06.3145	10
10-2J06.3146	10
10-2J06.3149	10
10-2J09.1062	10
10-2J09.1064	10
10-2J09.1065	10
10-2J09.1066	10
10-2J09.1069	10
10-2J12.1062	10
10-2J12.1064	10
10-2J12.1065	10
10-2J12.1066	10
10-2J12.1069	10
10-2J13.1062	10
10-2J13.1064	10
10-2J13.1065	10
10-2J13.1066	10
10-2J13.1069	10
10-2J19.1042	10
10-2J19.1044	10
10-2J19.1045	10
10-2J19.1046	10
10-2J19.1049	10
31-928	9
31-945	9
41-040.005	4
41-041.006	4
41-121.0252	5
41-122.0252	5
41-123.0252	5
41-124.0252	5
41-261.0252	5
41-262.0252	5
41-263.0252	5
41-264.0252	5
41-421.036	5
41-422.036	5
41-423.036	5
41-461.036	5
41-462.036	5
41-463.036	5
41-903.2	7
41-903.3	7
41-903.4	7
41-903.5	7
41-903.6	7
41-903.7	7
41-904.2	7
41-904.3	7
41-904.4	7
41-904.5	7
41-904.7	7
41-907.2/3	7
41-907.2/4	7
41-907.2/5	7
41-907.2/6	7
41-907.2/7	7
41-907.3/5	7
41-907.3/6	7
41-907.3/7	7
41-907.4/5	7
41-907.4/6	7
41-907.4/7	7
41-907.5/6	7
41-907.5/7	7
41-907.6/7	7
41-907.7/7	7
41-908.2/3	7
41-908.2/4	7
41-908.2/5	7
41-908.2/7	7
41-908.3/4	7
41-908.3/5	7
41-908.3/7	8
41-908.4/5	8
41-908.4/7	8
41-908.5/7	8
41-908.7/7	8
41-925	8
41-939	13
41-940	9
41-947.0	8
61-9740.0	13