

e c o 16 Pushbuttons

General

Mounting

Front mounting through the 16 mm dia. mounting hole is also possible with pre-assembled wiring. (Mounting dimensions and spacing see next page.)

Marking

The lenses can be marked by any of the following methods: engraving, hot stamping or film inserts.

Illumination

For ample illumination of the devices either filament lamps or midjet-grooved multi-LED's T 1 1/4 can be used.

Snap-action switch elements

Switching system

Self-cleaning, double break, snap-action switching mechanism. Suitable for use as changeover switch, with 1 normally closed and 1 normally open contact per element.

Switches with soldering terminals at the sides can be fitted with maximal 2 switching elements.

Materials

Contacts: Gold-plated silver
Actuator case: Thermoplastic polyester, selfextinguishing
Switch case: Polyamide PA 6.6

Switching travel

3 mm

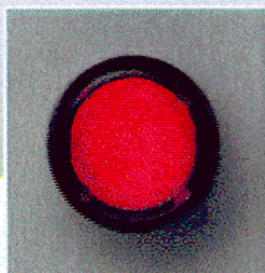
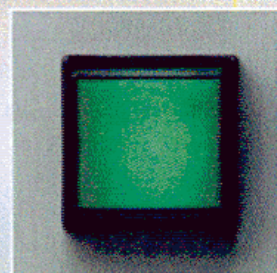
Switch rating

10 V/100 mA at up 250 V/3A

Front dimensions

□ 18 x 24 mm
□ 18 x 18 mm
⌀ 18 mm dia.

Degree of protection of front as per IEC 529
IP 65 / IP 40



Terminals

Snap-action switching element with soldering terminals at the side: max. wire diameter: 1 x 1.5 mm²
max. wire cross-section of stranded cable: 2 x 0.75 mm² or 1 x 1.0 mm²

Temperature ranges

Ambient temperature: -25 °C to +55 °C
Storage temperature: -40 °C to +85 °C

Approvals

- UL_C (CSA)
- UL

Eco 16 IP 65 / IP 40

Illuminated pushbutton with snap-action switching element

Comprising:

- pushbutton
 - lens
 - switching element
- Illumination order separately

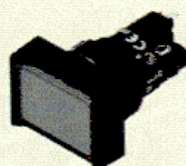


Diagram	Contacts	Front	Typ No. IP 40	Typ No. IP 65	Action	Depth mm	Hole No.	Dwg No.
				16-020.5 [C] 16-010.5 [C] 16-030.5 [C]		23.5 23.5 23.5	B2 B1 B1	M3 M3 M3
	1 NC/1 NO 1 NC/1 NO 1 NC/1 NO		16-121.0 [C] 16-111.0 [C] 16-131.0 [C]	16-121.5 [C] 16-111.5 [C] 16-131.5 [C]	momentary momentary momentary	29 29 29	B2 B1 B1	M1 M1 M1
	2 NC/2 NO 2 NC/2 NO 2 NC/2 NO		16-221.0 [C] 16-211.0 [C] 16-231.0 [C]	16-221.5 [C] 16-211.5 [C] 16-231.5 [C]	maintained maintained maintained	29 29 29	B2 B1 B1	M1 M1 M1
	2 NC/2 NO 2 NC/2 NO 2 NC/2 NO		16-122.0 [C] 16-112.0 [C] 16-132.0 [C]	16-122.5 [C] 16-112.5 [C] 16-132.5 [C]	momentary momentary momentary	36.5 36.5 36.5	B2 B1 B1	M1 M1 M1
	2 NC/2 NO 2 NC/2 NO 2 NC/2 NO		16-222.0 [C] 16-212.0 [C] 16-232.0 [C]	16-222.5 [C] 16-212.5 [C] 16-232.5 [C]	maintained maintained maintained	36.5 36.5 36.5	B2 B1 B1	M1 M1 M1

Legend: X1 + X2 = Lamp connections
X1 = cathode

NO = Normally open contact
NC = Normally closed contact

[C] = Select colour of lens

2 = red 5 = green
4 = yellow 7 = clear

Lens for replacement

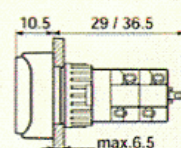
	Colour	Type No.	Type No.	Type No.
Flat transparent	red	16-920.2	16-910.2	16-930.2
lens with translucent	yellow	16-920.4	16-910.4	16-930.4
support suitable for	green	16-920.5	16-910.5	16-930.5
film insert	colourless, clear	16-920.7	16-910.7	16-930.7

Tools

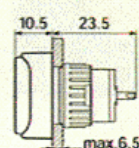
Lamp /LED remover
Type No. 61-9740.0
Mounting tool
Type No. 01-907
Lens remover
Type No. 02-905

Dimensions

M 1

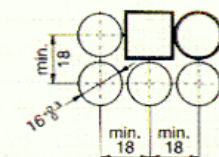


M 3

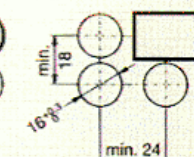


Mounting hole

B 1



B 2



Illumination (order separately)

Description	Lamp voltage	Current consumption	Type No
Filament lamp	6.3 V	200 mA	E10-1307. 1369
midget-grooved T 1 1/2	14 V	80 mA	E10-1310. 1319
	28 V	40 mA	E10-1313. 1249
	36 V	30 mA	E10-1316. 1209
	48 V	25 mA	E10-1319. 1199
	60 V	20 mA	E10-1320. 1179
Multi-LED midget-grooved T 1 1/2 (6 chips) with built-in blocking diode	12 V	30 mA	red E10-5309. 3202 yellow E10-5309. 3204 green E10-5309. 3205
	24 V	14 mA	red E10-5312. 3132 yellow E10-5312. 3134 green E10-5312. 3135

Lamp connection X1 = cathode

For mounting without anti-twisting device

We reserve the right to modify technical data

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