



EAO, the Expert for Human Machine Interfaces, is now offering a switch with multicoloured ring illumination for creating highly flexible displays. Designed for use with SMD LEDs, up to nine LEDs can be combined in one switch: eight within the bezel and a bi-colour LED in the centre of the lens. For designers and developers, this opens up new and previously unimagined possibilities.

Key characteristics

- Segmented illumination of the outer halo ring (actuator)
- Up to 8 SMD LEDs can be positioned on the PCB*
- Additional bi-colour LED can be used with the switch element
- Flat or raised plastic or aluminum lenses

Assembly

The transparent actuator is mounted on the PCB by means of a newly developed flange with snap-on connector. The switch mounts into a 22.5 mm dia. mounting hole.

Typical applications

The Series 84 can be utilised for a variety of applications:

- Ticket machines
- Instruments and medical devices
- Machine and process controls
- Audio, video, general lighting and stagecraft

Switching system

Single-interrupting snap-action switch system with two independent contact points and tactile switching point. Secure switching even in the case of minimum operational data. Contact mounting: one normally-open contact.

Environmental conditions

Storage temperature	−40 °C ... +85 °C
Operating temperature	−25 °C ... +70 °C
Type of front protection	IP67 (IEC 60529)

Typical parts list for a product

Article	Article number
Illuminated pushbutton actuator	84-7215.800
Flange	84-960.0
Switching element	92-851.342
Bi-colour LED green / red	10-2603.320AL

* PCBs and Osram Hyper Mini Top SMD LEDs are not standard components of the EAO sales programme

Key mechanical figures

Assembly drilling	22.5 mm dia.
Operating force	4.0 N ±0.2 N (measured at the lens)
Actuating distance	~0.5 mm
Mechanical useful life	≥1 million switch cycles

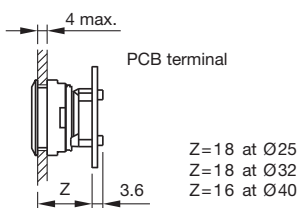
Key electrical figures

Switching element	1 million switch cycles 24 VDC, 100 mA, 240 Ω
Voltage	50 mVAC/DC ... 42 VAC/DC
Current	10 µA ... 100 mA, output max. 2 W

Approvals CE conformity declaration / RoHS

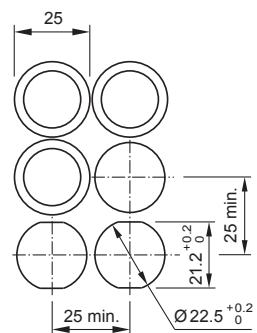
For in-depth information, please refer to product selector and the EAO catalogue.

Dimensions



Mounting holes

(Example: Ø25 mm)



Mounting types

