



EAO, the Expert for Human Machine Interfaces, offers the Series 84 with a choice of different actuators that are suitable for a wide range of industrial applications.

Either raised flat-fronted or convex lenses are an effective way to focus the user's attention on a primary control or function. Switching elements with integrated bi-colour LEDs are available in green/red or green/yellow. The bi-colour version offers the choice to combine two different functions and display them in one and the same indication unit. In addition the switches can be supplied with symbol illumination such as on/off and stand-by, or ring illumination in a range of colours.

#### Main Features

- Attractive design
- Consistent illumination
- Durable build with aluminium lens option
- Status indication with one bi-colour unit only
- Actuators and lenses available in many different colours
- Illuminable on/off and stand-by symbols

#### Mounting

- Mounted in 22.5 mm dia. cut-out

#### Typical applications

The Series 84 is suitable for a variety of industrial applications like,

- Ticket issuing machines
- Stop-request switch for bus and train
- Cockpits of marine vessels
- Medical instruments

#### Switching system

Short-travel switching system with two independent contact points and tactile operation. Guarantees reliable switching even of very light loads. Fitted with one normally-open contact.

#### Material

Actuator housing	Polyetherimide (PEI) as per UL 94 V0
Lens	Polycarbonate (PC), as per UL 94 V2 or anodised aluminium
Switching element	Thermoplastic polyester (PET, PBT), as per UL 94 V0 and Polyacetale (POM), as per UL 94 HB
Material of contact	Silver alloy gold-plated
Connection cable	Polyvinylchloride (PVC)

#### Mechanical characteristics

Terminals	Plug-in terminals 2.8 x 0.8 mm (solderable) Flat ribbon cable 0.5 mm <sup>2</sup>
Actuating force	4.0 N ± 0.2 N (measured at the lens)
Actuating travel	~0.5 mm
Mechanical lifetime	≥ 1 million cycles of operations

#### Electrical characteristics

Illumination	Single-chip LED, red, green, white, blue, yellow and orange
Switching element	1 million cycles of operation 24 VDC, 100 mA at 240 Ω Voltage 50 mVAC/DC ... 42 VAC/DC Current 10 µA ... 100 mA, Power max. 2 W

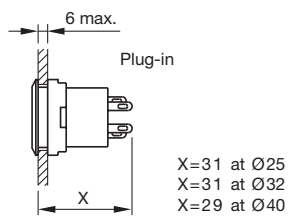
#### Environmental conditions

Storage temperature	-40°C ... +85°C
Operating temperature	-25°C ... +70°C
Protection degree (front)	IP40 or IP67

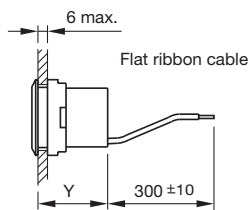
Approvals	CE conformity declaration / RoHS
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For in-depth information, please refer to the EAO catalogue.

**Dimensions**

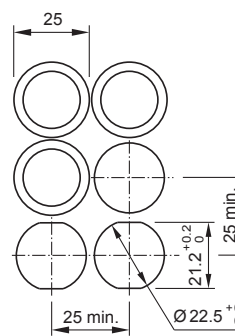


X=31 at Ø25  
X=31 at Ø32  
X=29 at Ø40



Y=23 at Ø25  
Y=23 at Ø32  
Y=21 at Ø40

**Mounting holes**



**Mounting types**

