

# Smart Box (part no. 73-00001.1)

## Technical specifications

### Description

Housing with two Series 84 white illuminated pushbuttons, directly wired to a 5 pin M12 plug. The housing and switches are sealed to IP67  
**Pushbutton lenses to be ordered separately**



### Shipped

- Without lenses
- with mounting adapter
- with marking plate

### Equipment

Connection: M12 5-pin plug, male, A-coding

Control element position [S1]: S84 button without lens / white LED

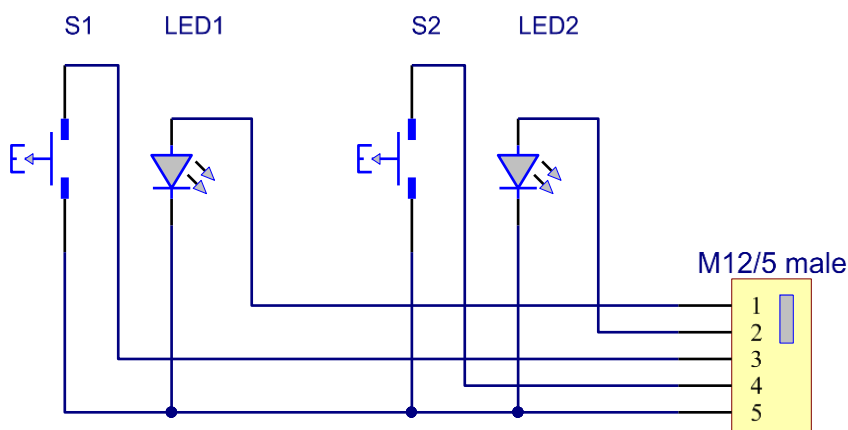
Base product: Part no. 84-1101.0

Control element position [S2]: S84 button without lens / white LED

Base product: Part no. 84-1101.0

### Connector pin assignment

- Pin 1: LED1  
Positive terminal
- Pin 2: LED2  
Positive terminal
- Pin 3: S1 button terminal
- Pin 4: S2 button terminal
- Pin 5: Shared terminal  
Button S1 / S2 /  
LED1 / LED2



### Electrical characteristics

Switch operating voltage: Maximum 30VDC

Switching rate: 10µA ... 100mA / Maximum 2W

LED operating voltage: 24VDC

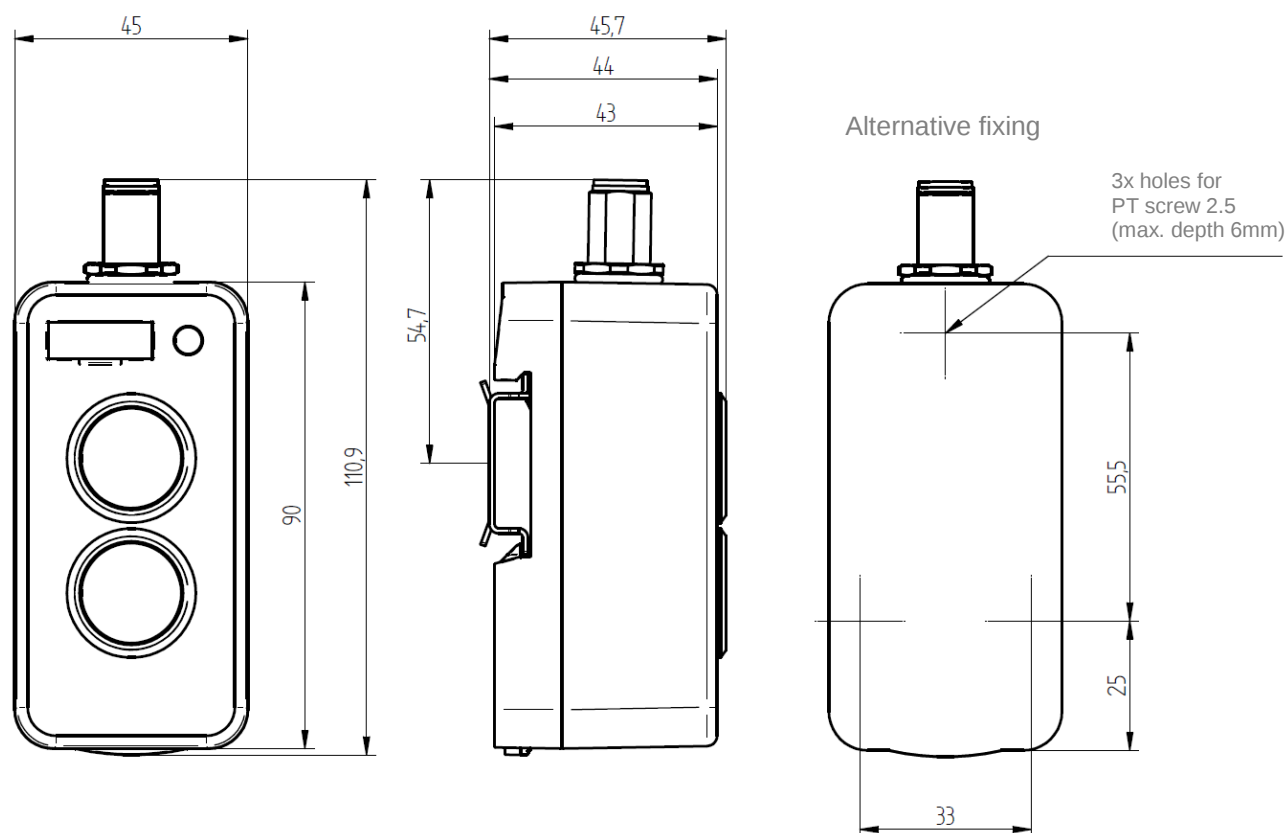
White LED operating current: 10mA ±10% at 24VDC

Please refer to EAO Series 84 for more technical data on the mounted switches / LEDs.

## Mechanical characteristics

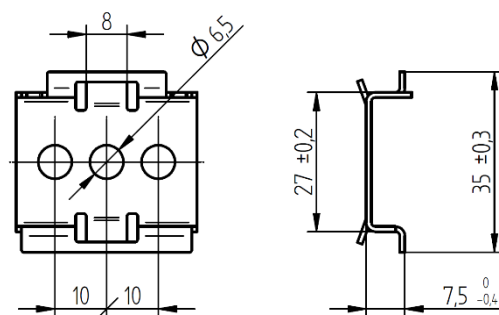
Dimensions:

See dimensional diagrams  
(Female M12 connector not included)



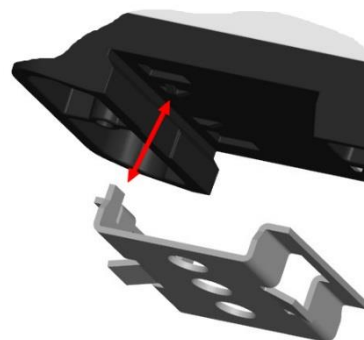
## Mounting

- Mount mounting adapter onto mounting surface
- Mount Smart Box on one side (note direction of mounting adapter on the housing)
- Push the housing down onto the adaptor on the other side until the Smart Box audibly clicks into place
- Alternatively, the module can be mounted on a standard top hat rail, or it can be mounted on a base using screws on the rear (see dimensional diagrams).



## Dismantling

- Pull out spring element using screwdriver and lift Smart Box
- Remove Smart Box from the other side



## Operating temperatures

|                    |                        |              |
|--------------------|------------------------|--------------|
| Temperature range: | Rated temperature:     | 25°C         |
|                    | Operating temperature: | -25 ... 60°C |
|                    | Storage temperature:   | -40 ... 85°C |

## Materials

|                                 |                                                   |
|---------------------------------|---------------------------------------------------|
| Upper part of housing:          | PBT / UL-V0 / colour similar to RAL9010           |
| Lower part of housing:          | PBT / UL-V0 / colour similar to RAL9011           |
| Spring element (for restraint): | POM (nature)                                      |
| Seal:                           | MVQ silicone foam bright                          |
| Blind plug:                     | PC / glass clear                                  |
| Mounting adaptor:               | Stainless steel 1.4301 / surface vibratory finish |
| Housing screws:                 | Stainless steel A2                                |
| Marking plate:                  | Black PVC / surface aluminium-coloured, adhesive  |
| M12 connector housing:          | Die cast zinc                                     |

## Standards

|                       |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| Degree of protection: | IP67 (with mounted female connector / lenses)                            |
| Insulation:           | EN 60664-1:2008 / degree of contamination I / insulation material IIIa/b |
| EMC:                  | Defined based on components of EAO Series 84                             |
| Vibrations:           | EN 60068-2-6:2008-10 / 10 – 150Hz / 2g                                   |
| Shock:                | EN 60068-2-27:2010-02 / 15g / 11ms                                       |
| Conformity            | CE                                                                       |

**EAO reference number:**                      **Part no. 73-00001.1**

EAO reserves the right to change specifications without further notice.