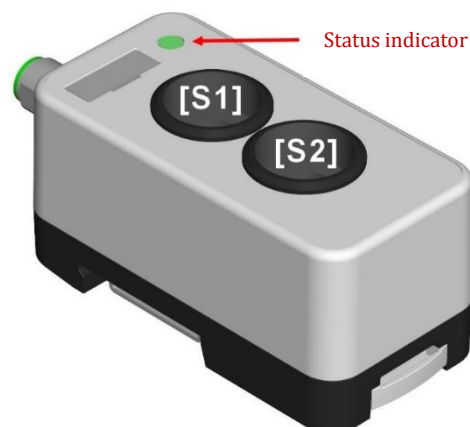e a o ■

AS-i Smart Box (part no. 80-4022.000)
Technical specifications

Description

AS-i enabled Smart-Box with two Series 84 white illuminated pushbuttons and with AS-i profile S-7.A.7.7. The housing and switches are sealed to IP67. **Pushbutton lenses to be ordered separately.**

Shipped:

▪ Without lenses
▪ with mounting adapter
▪ with marking plate

Status indicator
[S1]
[S2]

Equipment

Connection:	M12 2-pin plug, male, A-coding
	Connector pin assignment: Pin1: ASi+ / Pin3: ASi-
Control element position [S1]:	Series 84 button without lens / white LED
	Base product: Part no. 84-1101.0
Control element position [S2]:	Series 84 button without lens / white LED
	Base product: Part no. 84-1101.0
Status indicator:	Using bi-colour LED (green = power on / red = fault / address 0)

Configuration

Logical assignment of data bits:	D0:	Button input [S1]
	D1:	Button input [S2]
	D0	Output unused
	D1	Output unused
	D2	LED output [S1]
	D3:	LED output [S2]

|	
Parameter outputs:	Unused
Fault indicator input (FID):	Disabled
PWM for LED:	Disabled
AS-i profile:	S-7.A.7.7 (in accordance with specification 3.0)
	(extended addressing mode)
Programming:	Via plug-in terminals

Electrical characteristics

Operating voltage:	23 … 31.6VDC
Operating current (LED active):	< 55mA
External voltage:	None
Pole reversal protection:	Integrated
M12 plug:	4-pin / male /A-coding
	Pin1: ASi+ / Pin3: ASi- / Pin2, 4: Unused

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Mechanical characteristics

Dimensions: See dimensional diagram
(Female M12 connector not included)

Alternative fixing

3x holes for
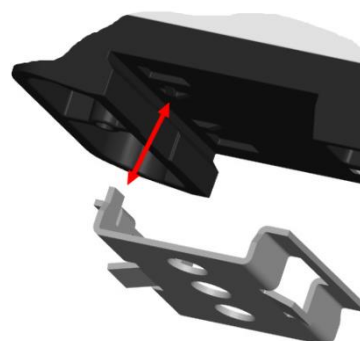PT screw 2.5
(max. depth 6mm)
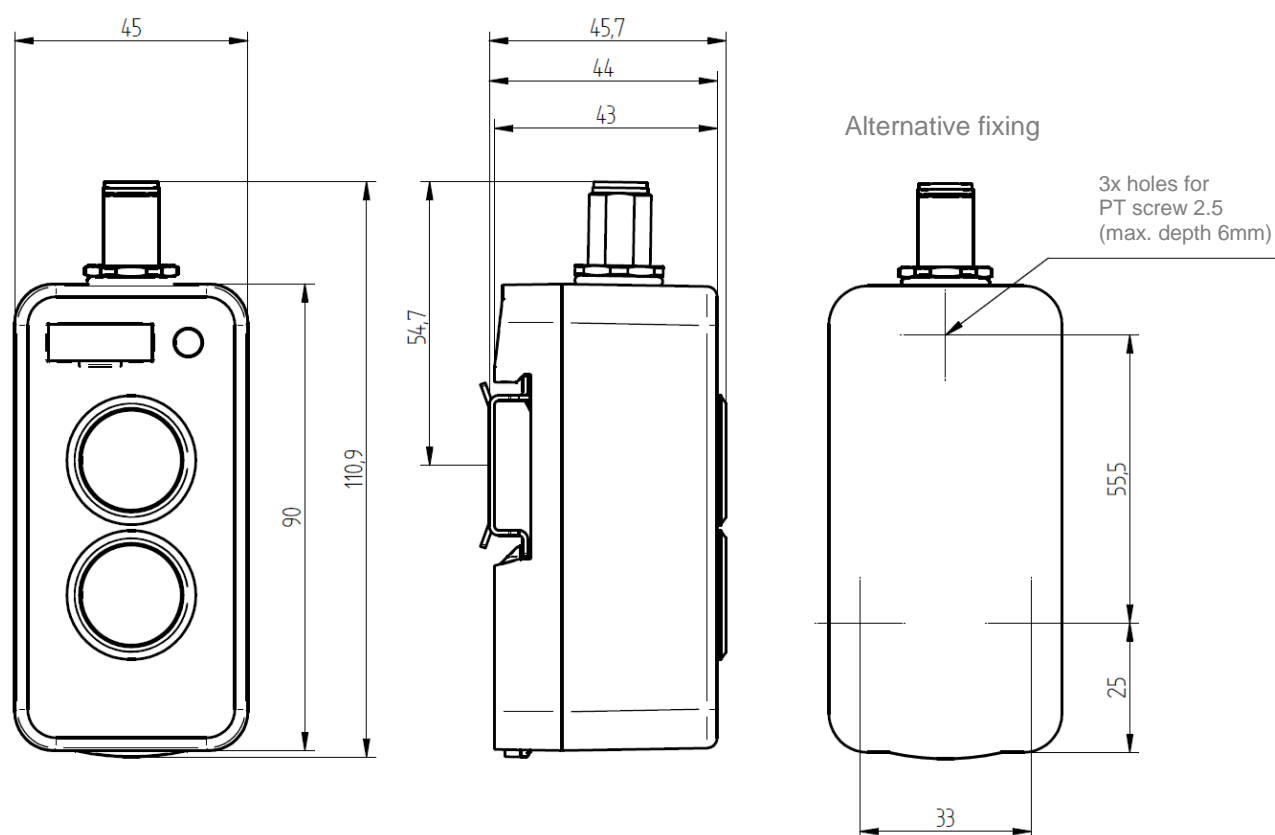
Mounting

- Mount mounting adapter onto mounting surface
- Mount Smart Box on one side (note direction of mounting adapter on the housing)
- Push the Smart Box onto the adaptor on the other side until the 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).
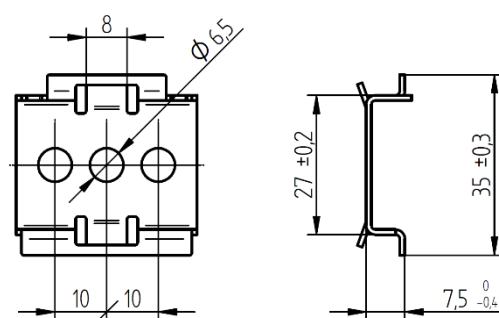
Dismantling

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

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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
Light pipe (status indicator):	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

AS-i approval

Certification	EN 62026-2:2013 / AS interface approval no. 129301

Standards

EMC:	EN 61000-6-3:2011	(emissions)
	EN 62026-2:2013	(immissions)
Insulation:	EN 60664-1:2008 / degree of contamination I / insulation material IIIa/b	
Degree of protection:	IP67 (with mounted female connector / lenses)	
Vibrations:	EN 60068-2-6:2008-10 / 10 … 150Hz, 2g	
Shock:	EN 60068-2-27:2010-02 / 15g / 11ms	
Certificates	CE	

EAO reference number: **Part no. 80-4022.000**

EAO reserves the right to change specifications without further notice.

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