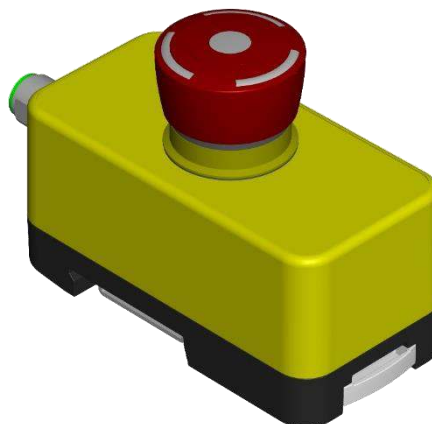# E-Stop Smart Box (part no. 73-00002.1)
Technical specifications

Description

Emergency Stop Smart Box wired to 8 pin M12 plug. The emergency stop switch is non-illuminated. The housing and switches are sealed to IP65 when assembled and connected to a suitable M12 cable.

Shipped:

▪ with mounting adapter
▪ with emergency stop switch, internally wired to 8-pin M12 plug

Equipment
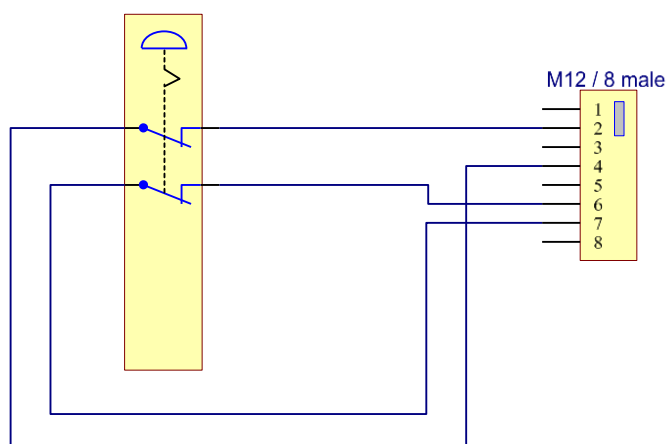
Connection: M12 8-pin plug, male, A-coding
Control element: Series 84 emergency stop switch / non-illuminated / part no. 84-5140.0020

Connector pin assignment

Pin 1:   (Unused)
Pin 2:   Contact 'a'
Pin 3:   (Unused)
Pin 4:   Contact 'a'
Pin 5:   (Unused)
Pin 6:   Contact 'b'
Pin 7:   Contact 'b'
Pin 8:   (Unused)

M12 / 8 male

Electrical characteristics

Operating voltage: Maximum 30VDC
Switching rate: Maximum 2A / contact

For further technical data regarding the emergency stop switch, please refer to the EAO data sheet 84-5140.0020.

Created: 16/05/2017 / KRJ	Reviewed: 16/05/2017 / KRJ	Approved: 16/05/2017 / KRJ	Doc. No. 19003064095	Version / status D / **2590 Series -** released	Page 1/3

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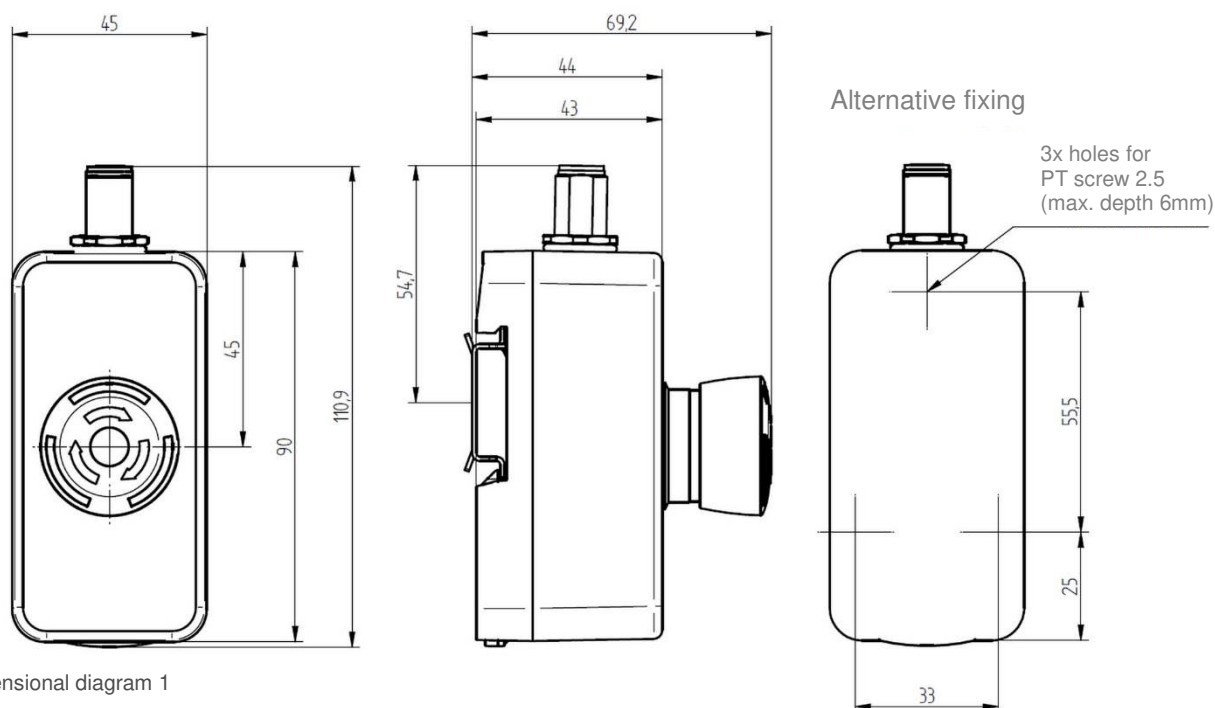
Mechanical characteristics

External dimensions: See dimensional diagram 1
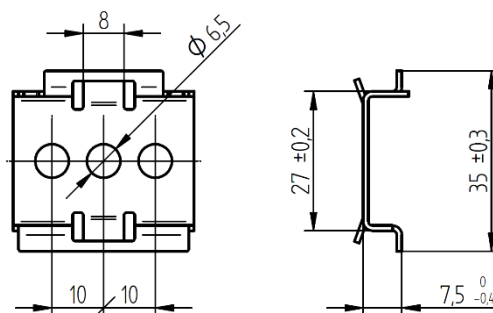(Female M12 connector not included)

Note: - The dimensional diagram shows the housing with the
emergency stop switch and M12 plug installed
- All side walls exhibit a pull of around 1°.

Alternative fixing

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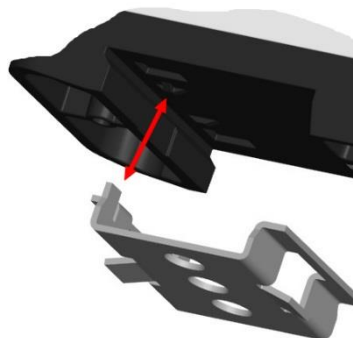(max. depth 6mm)

Dimensional diagram 1

Mounting
- Mount mounting adapter onto mounting surface
- Mount emergency stop 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 it 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

Created:	Reviewed:	Approved:	Doc. No.	Version / status	Page
16/05/2017 / KRJ	16/05/2017 / KRJ	16/05/2017 / KRJ	19003064095	D / **2590 Series -** released	2/3

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Operating temperatures

Temperature range:	Rated temperature:	25°C
	Operating temperature:	-25 … 65°C
	Storage temperature:	-25 … 80°C

Materials

Upper part of housing:	PBT / UL-V0 / colour similar to RAL1004
Lower part of housing:	PBT / UL-V0 / colour similar to RAL9011
Spring element (for restraint):	POM (nature)
Seal:	MVQ silicone foam bright
Mounting adaptor:	Stainless steel 1.4301 / surface vibratory finish
Housing screws:	Stainless steel A2
M12 connector housing:	Die cast zinc

Standards

Degree of protection:	IP65 (with mounted emergency stop switch and female connector)
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
Approvals (emergency stop switch only)	EN 60947-5-1 / EN 60947-5-5 / EN 13850 / EN 60204
Approvals (emergency stop switch only)	UL / CB IEC 60947
Certificates	CE

EAO reference number: **Part no. 73-00002.1**

EAO reserves the right to change specifications without further notice.

| Created: | Reviewed: | Approved: | Doc. No. | Version / status | Page |
| 16/05/2017 / KRJ | 16/05/2017 / KRJ | 16/05/2017 / KRJ | 19003064095 | D / **2590 Series -** released | 3/3 |

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