

CFP* Pushbuttons and Emergency Stops

Manual

With regard to the supply of products, the current issue of the following document is applicable:
The General Terms of Delivery for Products and Services of the Electrical Industry, published
by the Central Association of the Electrical Industry (Zentralverband Elektrotechnik und Elek-
troindustrie (ZVEI) e.V.) in its most recent version as well as the supplementary clause:
"Expanded reservation of proprietorship"

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1 Introduction

1.1 Content of this Document

This document contains information required to use the product in the relevant phases of the product life cycle. This may include information on the following:

- Product identification
- Delivery, transport, and storage
- Mounting and installation
- Commissioning and operation
- Maintenance and repair
- Troubleshooting
- Dismounting
- Disposal

Note

For full information on the product, refer to the further documentation on the Internet at www.pepperl-fuchs.com.

The documentation comprises the following parts:

- This document
- Datasheet

The documentation may also comprise the following parts, if applicable:

- EU-type examination certificate
- EU declaration of conformity
- Attestation of conformity
- Certificates
- Control drawings
- Instruction manual
- Functional safety handbook
- Other documents

1.2 Target Group, Personnel

The personnel must be appropriately trained and qualified in order to carry out mounting, installation, commissioning, operation, maintenance, and dismounting of the device. The trained and qualified personnel must have read and understood the instruction manual.

Prior to using the product make yourself familiar with it. Read the document carefully.

1.3 Intended Use

Always operate the device as described in these instructions. Only in this way, the safe function of the device and the connected systems is guaranteed.

The protection of operating personnel and plant is only given if the device is used in accordance with its intended use.

1.4 Symbols Used

This document contains symbols for the identification of warning messages and of informative messages.

Warning Messages

You will find warning messages, whenever dangers may arise from your actions. It is mandatory that you observe these warning messages for your personal safety and in order to avoid property damage.

Depending on the risk level, the warning messages are displayed in descending order as follows:



Danger!

This symbol indicates an imminent danger.
Non-observance will result in personal injury or death.



Warning!

This symbol indicates a possible fault or danger.
Non-observance may cause personal injury or serious property damage.



Caution!

This symbol indicates a possible fault.
Non-observance could interrupt the device and any connected systems and plants, or result in their complete failure.

Informative Symbols



Note

This symbol brings important information to your attention.



Action

1. This symbol indicates a paragraph with instructions. You are prompted to perform an action or a sequence of actions.

1.5 General

Responsibility for planning, assembly, commissioning, operation, maintenance, and dismounting lies with the plant operator.

Installation and commissioning of all devices may be performed only by trained and qualified personnel.

Protection of operating personnel and the system is not ensured if the product is not used in accordance with its intended use.

Observe the applicable laws and regulations regarding the intended use of the device. The devices are only approved for proper use for the intended purpose. Improper use will void any warranty and liability claims.

The corresponding datasheets, declarations of conformity, and/or EC-type examination certificates form an integral part of this document. The data sheet contains the electronic data of the EC-type-examination certificate.

These documents can be found at www.pepperl-fuchs.com or contact your local Pepperl+Fuchs representative.

2 Certificates and approvals

2.1 Reference to Further Documentation

Observe directives, standards, and national laws applicable to the intended use and the operating location. Observe Directive 1999/92/EC in relation to hazardous areas.

The corresponding datasheets, manuals, declarations of conformity, EU-type examination certificates, certificates, and control drawings if applicable supplement this document. You can find this information under www.pepperl-fuchs.com.

3 Installation

3.1 Storage and Transportation

Keep the original packaging. Always store and transport the device in the original packaging. Store the device in a clean and dry environment. The permitted ambient conditions must be considered, see datasheet.

3.2 Unpacking

Check the product for damage while unpacking. In the event of damage to the product, inform the post office or parcel service and notify the supplier.

Check the package contents against your purchase order and the shipping documents for:

- Delivery quantity
- Device type and version in accordance with the type label
- Any accessories ordered

Retain the original packaging in case you have to store or ship the device again at a later date.

Should you have any questions, please contact Pepperl+Fuchs.

3.3 Mounting and Installation

Observe the installation instructions according to IEC/EN 60079-14.

If you intend to install the device or enclosure in areas that may be exposed to aggressive substances, ensure that the stated surface materials are compatible with these substances.

If required, contact Pepperl+Fuchs for further information.

Tighten the thread with the appropriate torque, see datasheet.

Use the appropriate tool to tighten the thread, see datasheet.

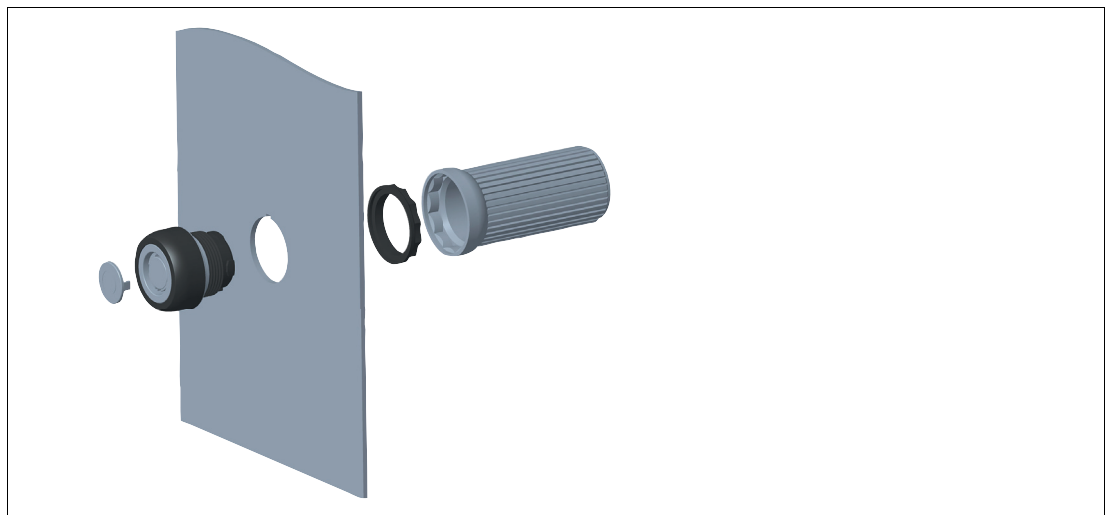


Figure 3.1

Pusbutton inserts

Pushbutton insert labels can be changed as required:

Type	Color	Labeling	Image
CFP.XA	red	none	
CFP.XR	red	0	
CFP.XC	red	STOP	
CFP.XD	red	OFF	
CFP.XE	green	none	
CFP.XG	green	I	
CFP.XF	green	START	
CFP.XH	green	ON	
CFP.XY	yellow	none	
CFP.XO	amber	none	
CFP.XW	white	none	
CFP.XB	blue	none	
CFP.XJ	blue	RESET	
CFP.XK	black	none	
CFP.XL	black	0	
CFP.XN	black	I	
CFP.XP	black	II	
CFP.XQ	black	III	
CFP.XT	black	IV	
CFP.XU	black	arrow up	
CFP.XZ*	see individual datasheets		

Table 3.1

4 Operation

4.1 Operation, Maintenance, Repair

Observe IEC/EN 60079-17 for maintenance and inspection.

If there is a defect, always replace the device with an original device.

Do not modify or manipulate the device.

4.2 Delivery, Transport, Disposal

The device, built-in components, packaging, and any batteries contained within must be disposed in compliance with the applicable laws and guidelines of the respective country.

4.3 Technical Data

Mechanical specifications	
Dimensions	see data table
Mounting	Use with base-mounted and lid-mounted contact modules
Degree of protection	IP66
Mass	see data table
Material	
Housing	Polyamide (PA)
Finish	inherent color black
Washer gasket	silicone
Ambient conditions	
Ambient temperature	-40 ... 55 °C (-40 ... 131 °F)
Service Temperature	-40 ... 65 °C (-40 ... 149 °F)
Data of application in connection with hazardous areas	
EU-Type examination certificate	CML 16 ATEX 3339U
Marking	⚠ II 2 GD Ex eb IIC Gb Ex tb IIIC Db
International approvals	
IECEx approval	IECEx CML 16.0114U
Conformity	
Degree of protection	EN 60529
CE marking	0102

Table 4.1

4.4 Dimensions

CFP.P*

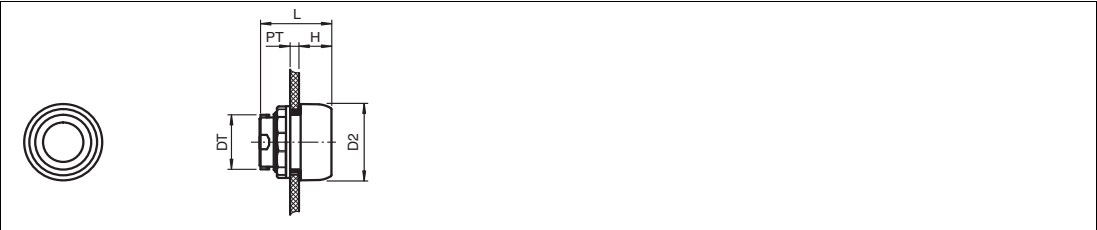


Figure 4.1

CFP.D*

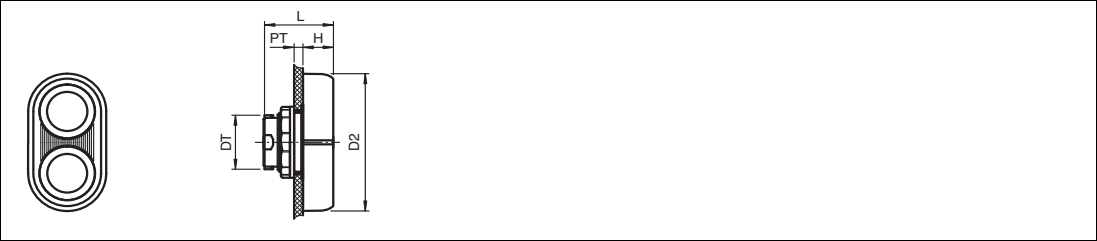


Figure 4.2

CFP.E*

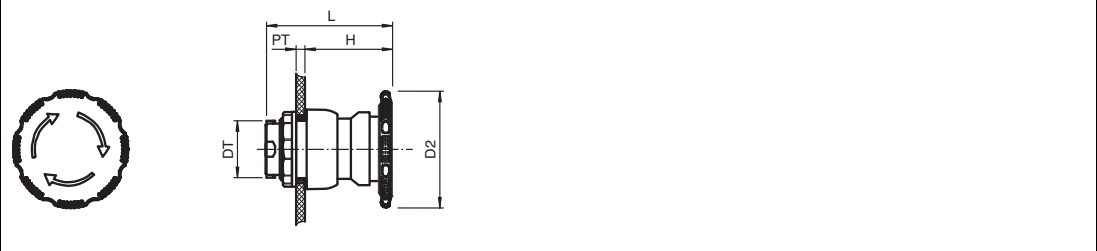


Figure 4.3

CFP.J*

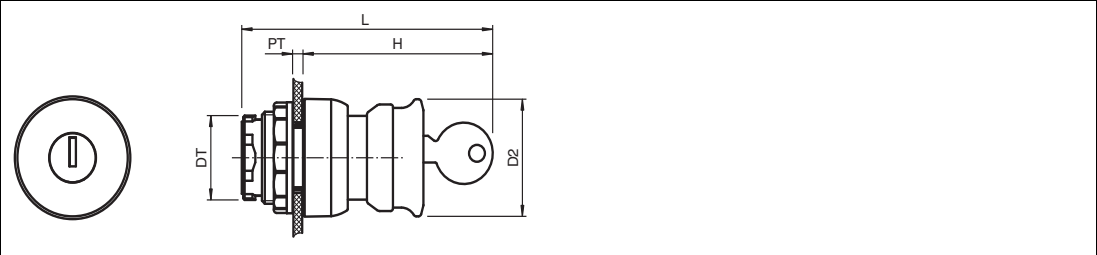


Figure 4.4

CFP.M*

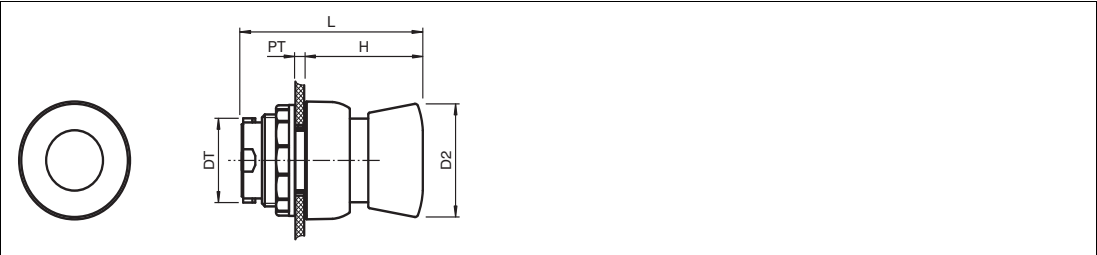


Figure 4.5

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4.5 Type Code / Model Number

1		2	3		4
CFP	.	*	*	.	*
CFP	.	P	R	.	SP

Example: CFP.PR.SP

control element Ex e, pushbutton actuator head black housing, insert red labeled '0', spare part

1	Series
CFP	control element Ex e

2	Operating Element Type	3	Details
P	pushbutton actuator head, black housing	X	no insert
		A	insert red
		R	insert red labeled '0'
		C	insert red labeled 'STOP'
		D	insert red labeled 'OFF'
		E	insert green
		G	insert green labeled 'I'
		F	insert green labeled 'START'
		H	insert green labeled 'ON'
		Y	insert yellow
		O	insert amber
		W	insert white
		B	insert blue
		J	insert blue labeled 'RESET'
		K	insert black
		L	insert black, labeled '0'
		N	insert black, labeled 'I'
		P	insert black, labeled 'II'
		Q	insert black, labeled 'III'
		T	insert black, labeled 'IV'
		U	insert black, labeled 'arrow up'
		Z*	individual selections of 7 inserts
I	illuminated pushbutton actuator head, black housing	R	red
		G	green
		O	amber
		W	white
		B	blue
D	double pushbutton actuator head, black housing	X	no insert
		M	insert red labeled '0' / green labeled 'I'

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2	Operating Element Type	3	Details
M	mushroom button actuator head, black housing	R	red, diameter 37 mm
		G	green, diameter 37 mm
		K	black, diameter 37 mm
E	Emergency stop actuator head, yellow housing	4	red, twist-to-release, diameter 40 mm
		5	red, twist-to-release, diameter 55 mm
J	Emergency stop actuator head key-release, yellow housing	R	red, key release, diameter 39 mm

4	Product Type
SP	spare part

4.6 Variant-Specific Data

Pushbuttons and Emergency Stops - Dimensions

Type	Function	Actuator head diameter [mm]	Panel wall thickness [mm]	Diameter thru-hole [mm]	Length outside enclosure [mm]	Total length [mm]	Mass [g]
		D2	PT	DT	H	L	
CFP.P*	pushbutton	39	1 ... 6	30.6	15.5	35.8	25
CFP.D*	double pushbutton	70 x 39	1 ... 6	30.6	15.5	35.8	38
CFP.E4	emergency stop	40	1 ... 6	30.6	41.8	62.1	53
CFP.E5	emergency stop	55	1 ... 6	30.6	41.7	62	58
CFP.JR	key release mushroom button	39	1 ... 6	30.6	41.6	61.9	65
CFP.M*	mushroom button	37	1 ... 6	30.6	40.8	61.1	46

Table 4.2

Values might differ slightly due to manufacturing tolerances.

Your automation, our passion.

Explosion Protection

- Intrinsic Safety Barriers
- Signal Conditioners
- FieldConnex® Fieldbus
- Remote I/O Systems
- Electrical Ex Equipment
- Purge and Pressurization
- Industrial HMI
- Mobile Computing and Communications
- HART Interface Solutions
- Surge Protection
- Wireless Solutions
- Level Measurement

Industrial Sensors

- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- Fieldbus Modules
- AS-Interface
- Identification Systems
- Displays and Signal Processing
- Connectivity

Pepperl+Fuchs Quality

Download our latest policy here:

www.pepperl-fuchs.com/quality

