

CFP* Windows & Accessories

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..... 4**
 - 1.1 Content of this Document..... 4**
 - 1.2 Target Group, Personnel 4**
 - 1.3 Intended Use 4**
 - 1.4 Symbols Used 5**
 - 1.5 General 6**
- 2 Certificates and approvals..... 7**
 - 2.1 Reference to Further Documentation 7**
- 3 Installation..... 8**
 - 3.1 Storage and Transportation 8**
 - 3.2 Unpacking 8**
 - 3.3 Mounting and Installation 8**
 - 3.3.1 Windows..... 8**
 - 3.3.2 Accessories 11**
- 4 Operation..... 27**
 - 4.1 Operation, Maintenance, Repair..... 27**
 - 4.2 Delivery, Transport, Disposal..... 27**
 - 4.3 Technical Data..... 27**
 - 4.4 Dimensions..... 31**
 - 4.5 Type Code / Model Number..... 35**
 - 4.6 Variant-Specific Data..... 38**

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.



Tip

This symbol brings an useful tip to your attention.



Example

This symbol provides an example of the issue described.



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 dismantling 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

3.3.1 Windows

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.

CFP.WR



Warning!

Seals must be fitted between the accessory and the enclosure cover surface. If a seal is omitted, the ingress protection (IP) rating of the enclosure will be seriously compromised.



Note

Inspect the glass prior to and after installation.



Note

Only use the fastening screws supplied by Pepperl+Fuchs (10 off).

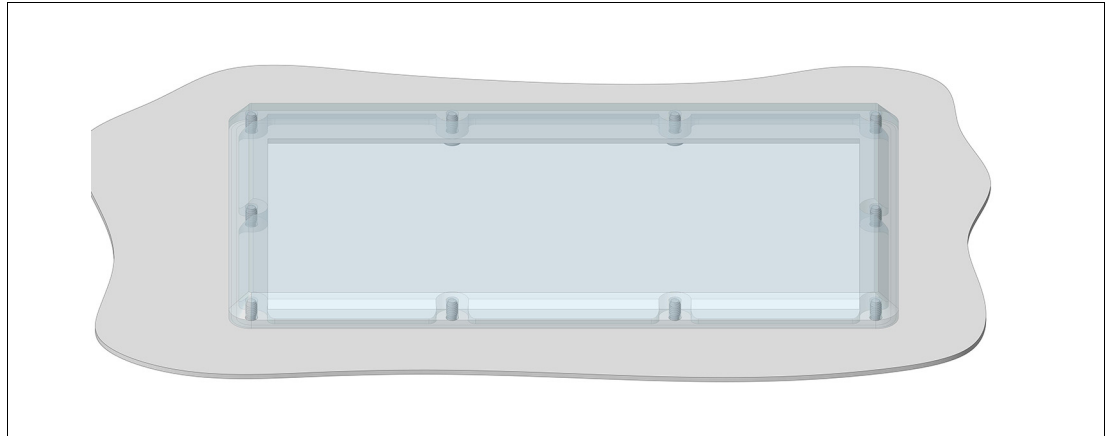


Figure 3.1

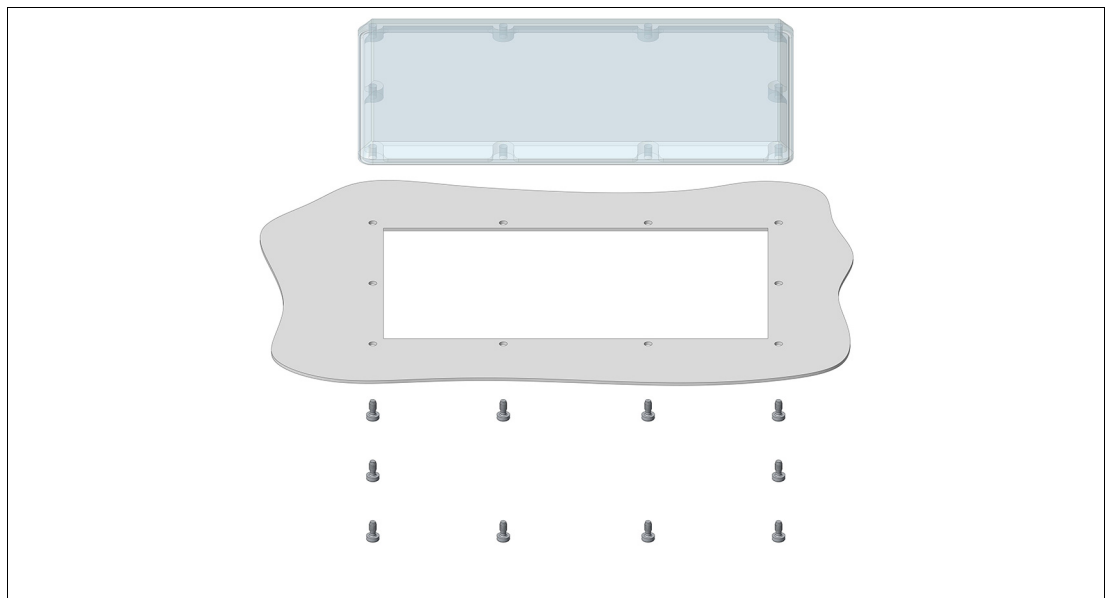


Figure 3.2

**Follow the instructions below for assembly:**

1. Verify the seal condition and ensure the enclosure sealing face is clean.
2. From the inside of the enclosure, insert the screws through the enclosure cover.
3. Engage the screws into the blind holes of the frame. Ensure all screws are correctly engaged before tightening.
4. Tighten all screws to the specified torque. For detailed information, refer to the relevant data sheet.
5. Ensure the glass is clean.

CFP.WC**Warning!**

The seal must be fitted between the accessory and the enclosure cover surface.

If the seal is omitted, the ingress protection (IP) rating of the enclosure will be seriously compromised.

**Warning!**

The glass orientation is critical. Orientate the bevelled edge of the glass uppermost and position it inside the frame.

**Note**

Only use the fastening screws supplied by Pepperl+Fuchs (8 off).

**Note**

Inspect the glass for damage prior to and after installation.

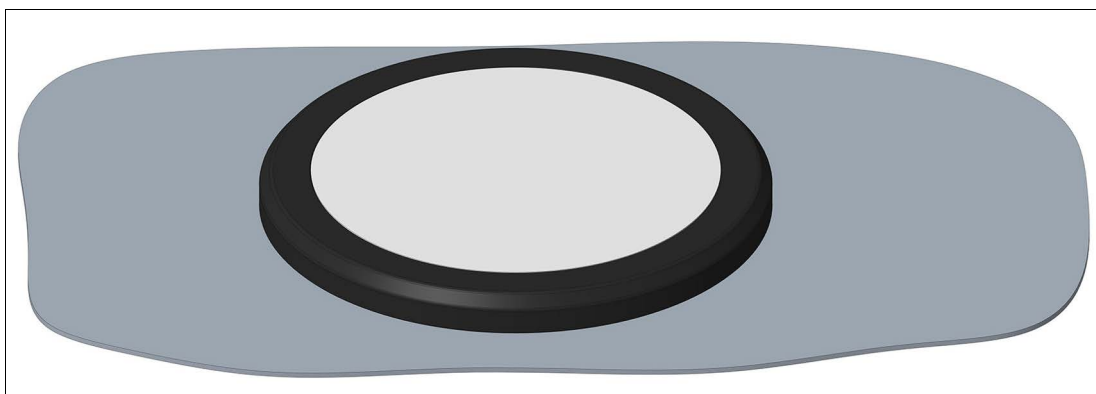


Figure 3.3

**Follow the instructions below for assembly:**

1. Insert the glass into the frame. Ensure the glass is correctly oriented, with the bevelled edge positioned inside the frame.
2. Verify the seal condition and ensure the enclosure sealing face is clean.
3. Place the seal over the glass and frame sub-assembly. Ensure the screw holes of the seal are aligned with the frame.
4. From the inside of the enclosure, insert the screws through the enclosure cover.
5. Engage the screws into the blind holes of the frame. Ensure all screws are correctly engaged before tightening.
6. Tighten all screws to the specified torque. For detailed information, refer to the relevant data sheet.
7. Ensure the glass is clean.

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3.3.2 Accessories

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.

CFP.ZCT, CFP.ZDT



Warning!

Only use fixing screws, washers and nuts supplied by Pepperl+Fuchs. If you use alternatives, the ingress protection (IP) rating of the enclosure will be seriously compromised.



Note

Hinge at the top, so that the flap closes under gravity.



Note

Only use the fastening screws supplied by Pepperl+Fuchs (2 off).

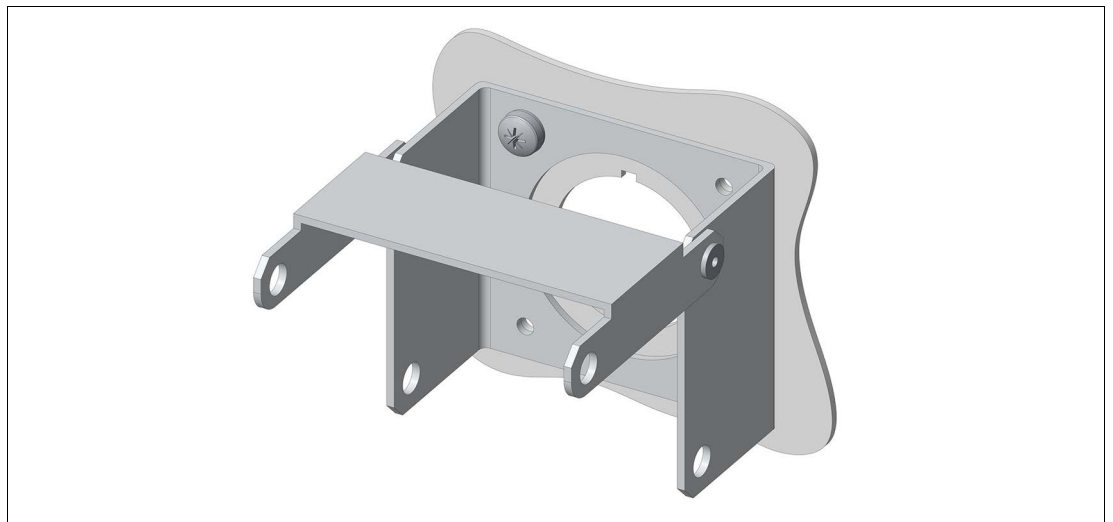


Figure 3.4

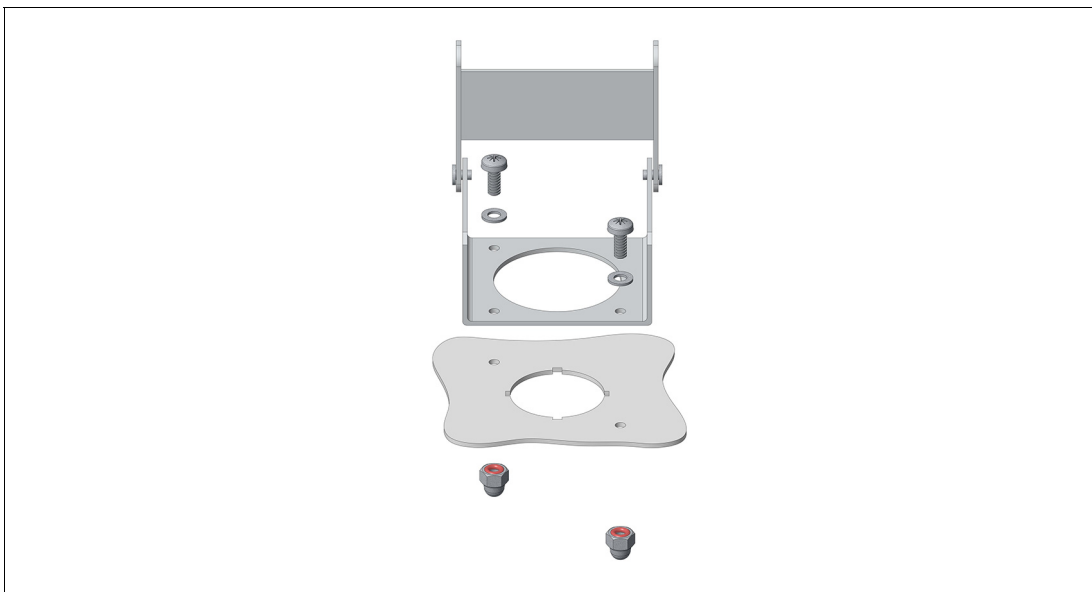


Figure 3.5

**Follow the instructions below for assembly:**

1. Lower the shroud onto the enclosure cover.
2. Verify position and alignment according to the dimension drawing and/or the relevant documentation. Unless otherwise specified, the hinge must be oriented uppermost.
3. From the outside of the enclosure, push the screws through the washers, then through the shroud and finally through the enclosure cover.
4. From the inside of the enclosure, engage the screws into the Zago nuts. Ensure both screws are fully engaged before tightening.
5. Tighten both screws to the specified torque. For detailed information, refer to the relevant data sheet.
6. Close the shroud assembly over the actuator head.

CFP.ZP



Warning!

No seal (2) must be fitted between the accessory and the enclosure cover surface. Fitting a seal will seriously compromise the functionality of the actuator head.



Note

You can mount the shroud in either a vertical or horizontal position.



Note

Ensure that the control element is correctly positioned within the notched aperture.

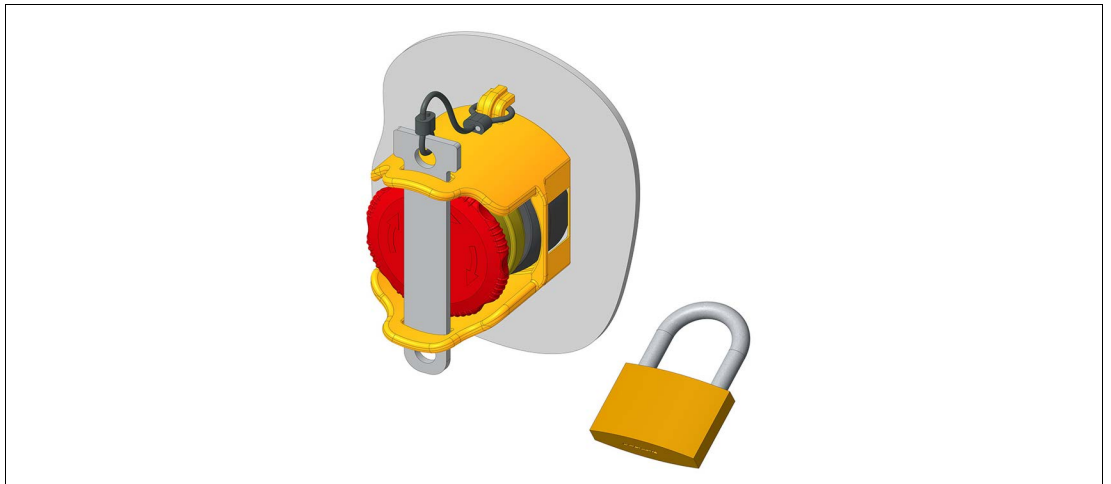


Figure 3.6

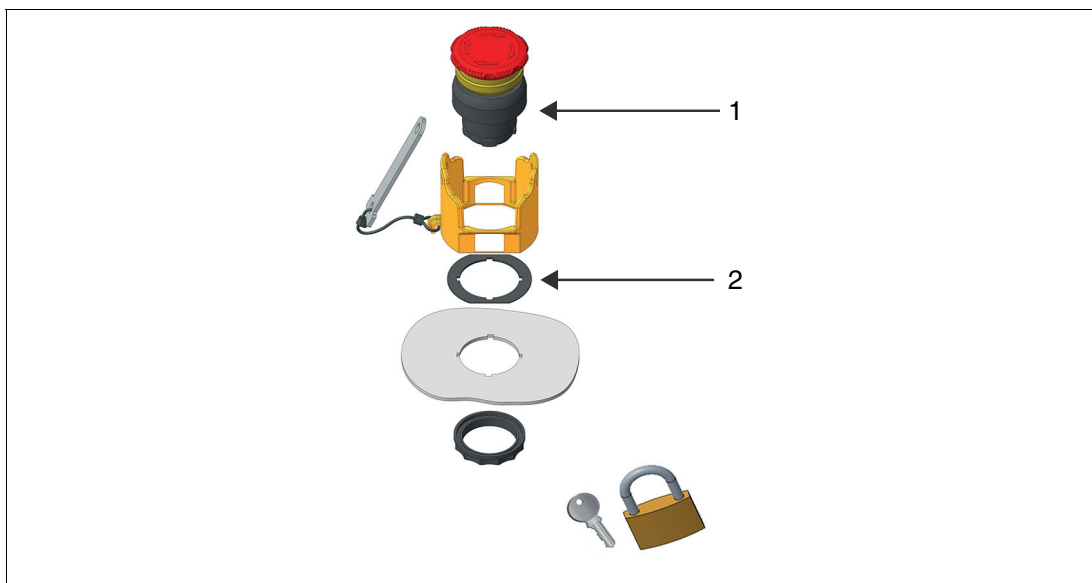


Figure 3.7

**Follow the instructions below for assembly:**

1. Before installing the control element, verify the seal is correctly fitted and is in good, undamaged condition.
2. If an accessory seal is supplied with the product, discard it.
3. Slide the actuator head (1) through the shroud. Verify the orientation of all components, particularly where symbols are present on the actuator head.
4. Loop the padlock hasp wire rope over the shroud hook.
5. Push the complete sub-assembly through the enclosure cover aperture.
6. Engage the actuator head lock nut and tighten it by hand until it contacts the inner face of the enclosure cover.
7. Tighten the lock nut to the specified torque. For detailed information, refer to the relevant data sheet.
8. Depress the actuator head and slide the padlock bar through the shroud.
9. Place the padlock with key through the designated locking position and secure as required.

CFP.ZPR**Warning!**

O-ring seals must be fitted between the accessory and the enclosure cover surface. If an O-ring seal is omitted, the ingress protection (IP) rating of the enclosure will be seriously compromised.

**Note**

Only use the fastening screws supplied by Pepperl+Fuchs (2 off).

**Note**

Ensure that the control element is correctly positioned within the notched aperture.



Figure 3.8

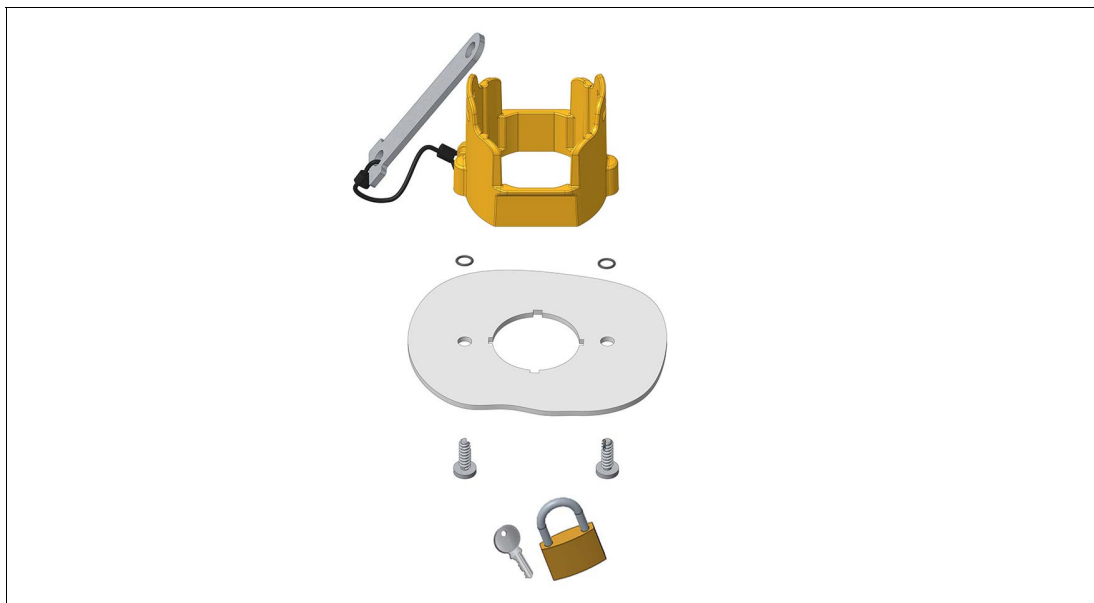


Figure 3.9

**Follow the instructions below for assembly:**

1. Lower the shroud onto the enclosure cover.
2. Verify position and alignment according to the dimension drawing and/or the relevant documentation.
3. From the inside of the enclosure, push the screws through the enclosure cover.
4. From the outside of the enclosure, slide one O-ring over each screw.
5. Engage the screws into the blind holes of the shroud. Ensure both screws are fully engaged before tightening.
6. Tighten both screws to the specified torque. For detailed information, refer to the relevant data sheet.
7. After the actuator head is fitted, slide the padlock bar through the shroud.
8. Place the padlock with key through the designated locking position and secure as required.

CFP.ZA



Warning!

No seal (2) must be fitted between the accessory and the enclosure cover surface. Fitting a seal will seriously compromise the functionality of the actuator head.



Note

Hinge at the top, so that the flap closes under gravity.



Note

Ensure that the control element is correctly positioned within the notched aperture.

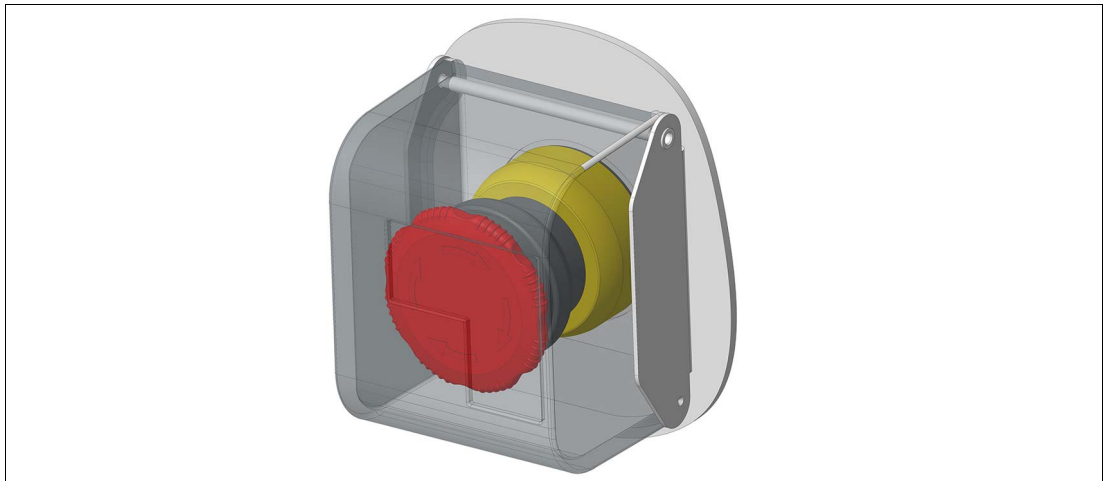


Figure 3.10

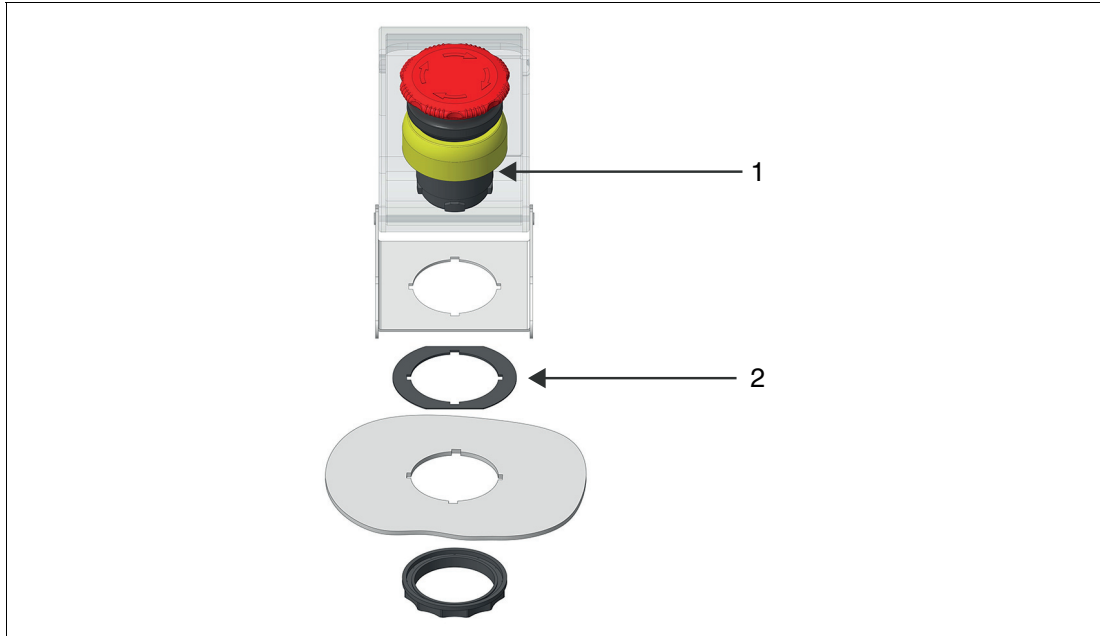


Figure 3.11

**Follow the instructions below for assembly:**

1. Before installing the control element, verify the seal is correctly fitted and is in good, undamaged condition.
2. If an accessory seal is supplied with the product, discard it.
3. Slide the actuator head (1) through the hinged shroud. Verify the orientation of all components, particularly where symbols are present on the actuator head.
4. Push the complete sub-assembly through the enclosure cover aperture.
5. Engage the actuator head lock nut and tighten it by hand until it contacts the inner face of the enclosure cover.
6. Tighten the lock nut to the specified torque. For detailed information, refer to the relevant data sheet.
7. Close the shroud assembly over the actuator head.

CFP.ZAR



Warning!

O-ring seals must be fitted between the plastic nuts and the enclosure cover surface. If an O-ring seal is omitted, the ingress protection (IP) rating of the enclosure will be seriously compromised.



Note

Hinge at the top, so that the flap closes under gravity.



Note

Only use the fastening screws supplied by Pepperl+Fuchs (2 off).



Figure 3.12



Figure 3.13

**Follow the instructions below for assembly:**

1. Lower the shroud onto the enclosure cover.
2. Verify position and alignment according to the dimension drawing and/or the relevant documentation. Unless otherwise specified, the hinge must be oriented uppermost.
3. From the outside of the enclosure, push the screws through the enclosure cover.
4. From the inside of the enclosure, slide one O-ring over each screw.
5. Engage the screws into the blind nylon nuts. Ensure both screws are fully engaged before tightening.
6. Tighten both screws to the specified torque. For detailed information, refer to the relevant data sheet.
7. Close the shroud assembly over the actuator head.

CFP.Z7, CFP.Z1, CFP.Z3**Warning!**

Where base-mounted contact blocks are fitted, label holders change the distance between the actuator head and the contact blocks. Verify the functional distance during installation.

**Warning!**

When an emergency stop (E-Stop) actuator head is used, the control element must be electrically tested after installation.

**Note**

Verify the label text prior to installation. Refer to the relevant documentation.

**Note**

Ensure that the control element is correctly positioned within the notched aperture.



Figure 3.14

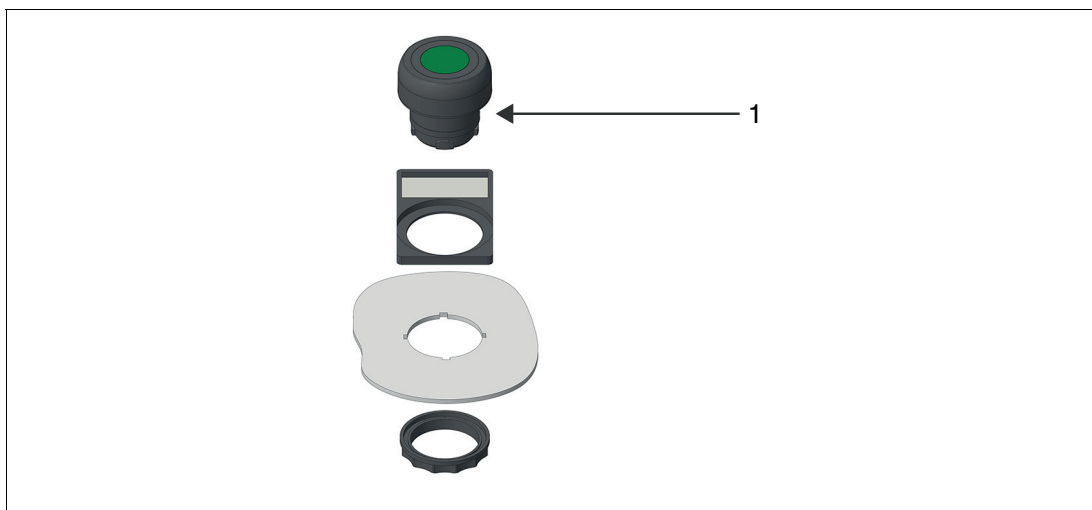


Figure 3.15

**Follow the instructions below for assembly:**

1. Before installing the control element, verify the seal is correctly fitted and is in good, undamaged condition.
2. Peel off the self-adhesive backing from the label holder.
3. Position the label holder over the correct entry opening in the enclosure cover and press firmly to ensure proper adhesion.
4. Slide the actuator head (1) through the label holder and the module entry.
5. Verify the correct orientation of the actuator head, particularly where symbols or markings are present.
6. Engage the actuator head lock nut and tighten it by hand until it contacts the inner face of the enclosure cover.
7. Tighten the lock nut to the specified torque. For detailed information, refer to the relevant data sheet.
8. Insert the label into the label holder. Verify correct label orientation and confirm that text and symbols match the dimension drawing and/or relevant documentation.

CFP.ZB, CFP.ZJ



Warning!

No seal (2) must be fitted between the accessory and the enclosure cover surface. If a seal is fitted, the functionality of the actuator head will be seriously compromised.



Note

Hinge at the top, so that the flap closes under gravity.



Note

Ensure that the control element is correctly positioned within the notched aperture.



Figure 3.16

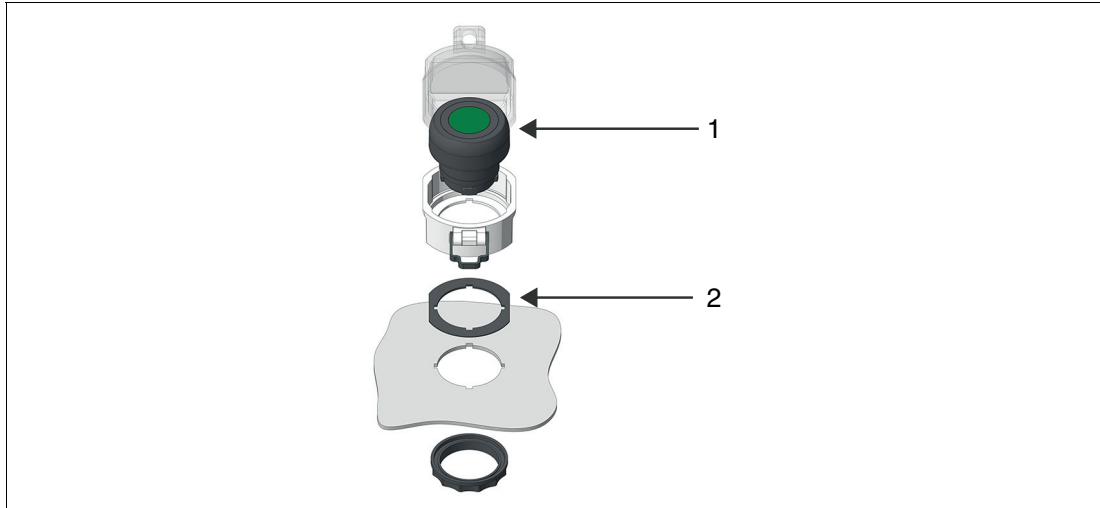


Figure 3.17

**Follow the instructions below for assembly:**

1. Before installing the control element, verify the seal is correctly fitted and is in good, undamaged condition.
2. If an accessory seal is supplied with the product, discard the seal.
3. Slide the actuator head (1) through the hinged shroud.
4. Verify the correct orientation of all components, particularly where symbols or markings are present on the actuator head.
5. Push the complete sub-assembly through the enclosure cover aperture.
6. Engage the actuator head lock nut and tighten it by hand until it contacts the inner face of the enclosure cover.
7. Tighten the lock nut to the specified torque. For detailed information, refer to the relevant data sheet.
8. Close the shroud assembly over the actuator head.

CFP.ZBR, CFP.ZJR



Warning!

O-ring seals must be fitted between the accessory and the enclosure cover surface.

If an O-ring seal is omitted, the ingress protection (IP) rating of the enclosure will be seriously compromised.



Note

Hinge at the top, so that the flap closes under gravity.



Note

Only use the fastening screws supplied by Pepperl+Fuchs (2 off).



Note

Ensure that the control element is correctly positioned within the notched aperture.

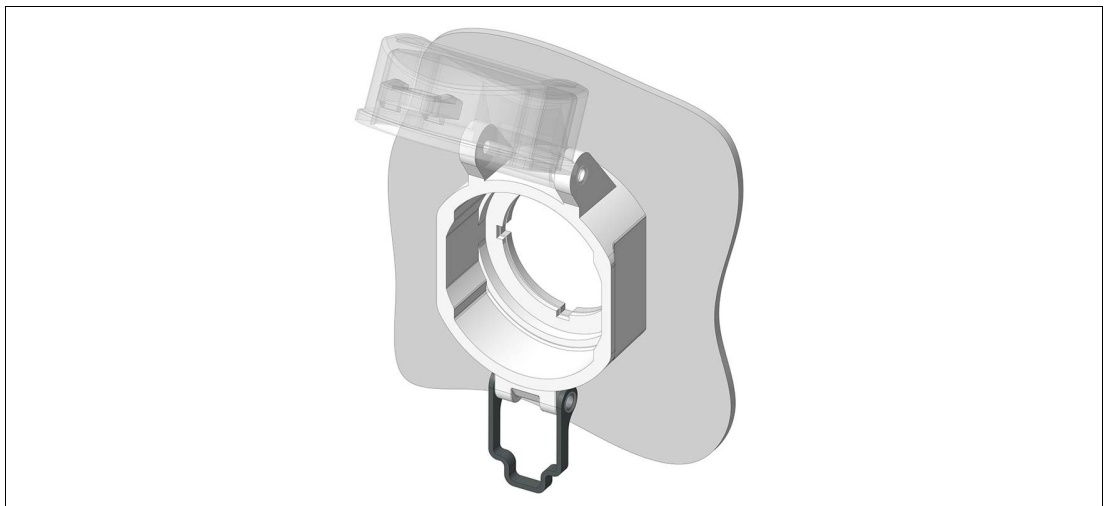


Figure 3.18



Figure 3.19

**Follow the instructions below for assembly:**

1. Lower the shroud onto the enclosure cover.
2. Verify position and alignment according to the dimension drawing and the relevant documentation. Unless otherwise specified in the dimension drawing, the hinge must be oriented uppermost.
3. From the inside of the enclosure, push the screws through the enclosure cover.
4. From the outside of the enclosure, slide one O-ring over each screw.
5. Engage the screws into the blind holes of the shroud. Ensure both screws are correctly engaged before tightening.
6. Tighten both screws to the specified torque. For detailed information, refer to the relevant data sheet.
7. Close the shroud assembly over the actuator head.

CFP.BK

All information relating to CFP.BK, including installation, configuration and technical specifications, is provided in the dedicated Pushbuttons & Emergency Stops manual.

Refer to the Pushbuttons & Emergency Stops manual for complete details prior to installation or operation.

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

Windows

CFP.WR, CFP.WC

Mechanical specifications	
Degree of protection	IP66
Tightening torque	see single datasheet
Material	
Housing	Polyamide (PA)
Ambient conditions	
Ambient temperature	-40 ... 55 °C (-40 ... 131 °F)
Data for application in connection with hazardous areas	
EU-Type examination certificate	CML 16 ATEX 3339U
Marking	 II 2 GD Ex e IIC Gb
International approvals	
IECEx approval	IECEx CML 16.0014U

Table 4.1

Accessories

CFP.Z1, CFP.Z3, CFP.Z7

Mechanical specifications	
Degree of protection	IP66
Material	
Housing	Polyamide (PA)
Ambient conditions	
Ambient temperature	-40 ... 55 °C (-40 ... 131 °F)
Data for application in connection with hazardous areas	
EU-Type examination certificate	CML 16 ATEX 3339U
Marking	 II 2 GD Ex e IIC Gb
International approvals	
IECEx approval	IECEx CML 16.0014U

Table 4.2

CFP.ZB, CFP.ZJ, CFP.ZA, CFP.ZP

Mechanical specifications	
Degree of protection	IP66
Material	
Housing	Polycarbonate
Ambient conditions	
Ambient temperature	-40 ... 55 °C (-40 ... 131 °F)
Data for application in connection with hazardous areas	
EU-Type examination certificate	CML 16 ATEX 3339U
Marking	 II 2 GD Ex e IIC Gb
International approvals	
IECEx approval	IECEx CML 16.0014U

Table 4.3

CFP.ZBR, CFP.ZJR, CFP.ZAR, CFP.ZPR

Mechanical specifications	
Degree of protection	IP66
Tightening torque	See single datasheet
Material	
Housing	Polycarbonate
Ambient conditions	
Ambient temperature	-40 ... 55 °C (-40 ... 131 °F)
Data for application in connection with hazardous areas	
EU-Type examination certificate	CML 16 ATEX 3339U
Marking	Ex II 2 GD Ex e IIC Gb
International approvals	
IECEX approval	IECEX CML 16.0014U

Table 4.4

CFP.ZEB

Ambient conditions	
Ambient temperature	-40 ... 55 °C (-40 ... 131 °F)

Table 4.5

CFP.ZCT, CFP.ZDT

Mechanical specifications	
Degree of protection	IP66
Tightening torque	See single datasheet
Material	
Housing	Stainless steel 1.4401 / AISI 316
Ambient conditions	
Ambient temperature	-40 ... 55 °C (-40 ... 131 °F)
Data for application in connection with hazardous areas	
EU-Type examination certificate	CML 16 ATEX 3339U
Marking	Ex II 2 GD Ex e IIC Gb

Table 4.6

CFP.ZG

Material	
Housing	Stainless steel
Ambient conditions	
Ambient temperature	-40 ... 55 °C (-40 ... 131 °F)

Table 4.7

CFP.TS, CFP.ZK1, CFP.TP

Material	
Housing	Steel zinc plate

Table 4.8

CFP.ZU

Material	
Housing	Brass

Table 4.9

CFP.BK

Mechanical specifications	
Degree of protection	IP66
Tightening torque	5 Nm
Material	
Housing	Polyamide (PA)
Ambient conditions	
Ambient temperature	-40 ... 55 °C (-40 ... 131 °F)
Data for application in connection with hazardous areas	
EU-Type examination certificate	CML 16 ATEX 3339U
Marking	Ex II 2 GD Ex e IIC Gb
International approvals	
IECEX approval	IECEX CML 16.0014U
Conformity	
Degree of protection	EN 60529
CE marking	2829

Table 4.10

4.4 Dimensions

Windows

CFP.WC

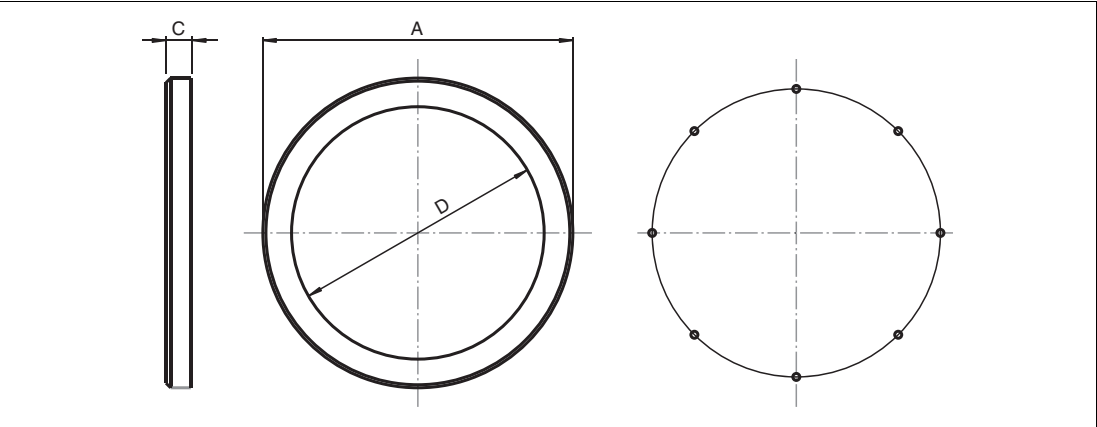


Figure 4.1

CFP.WR

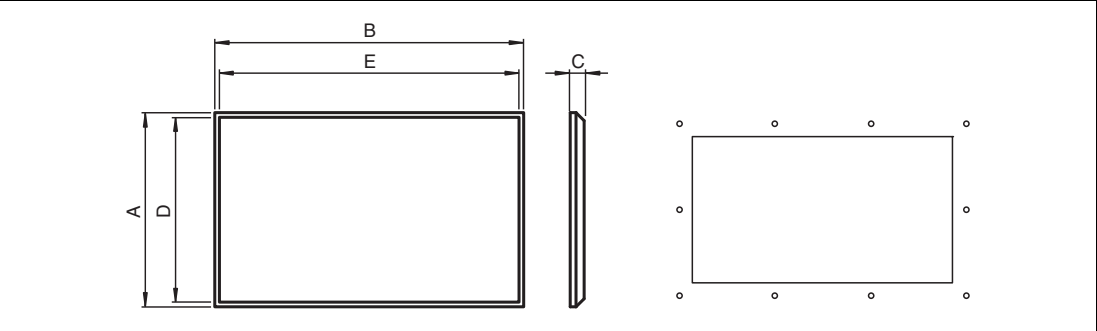


Figure 4.2

Accessories

CFP.Z1, CFP.Z3, CFP.Z7

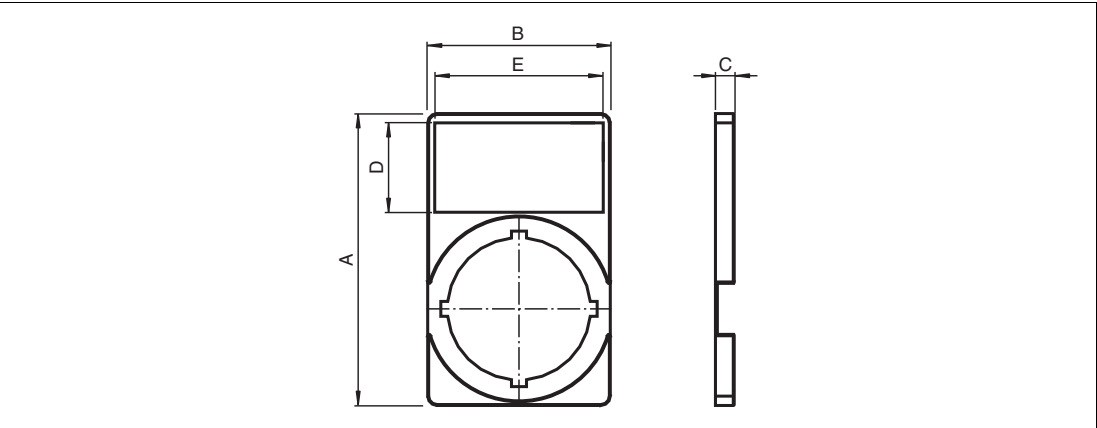


Figure 4.3

CFP.ZB, CFP.ZJ, CFP.ZA

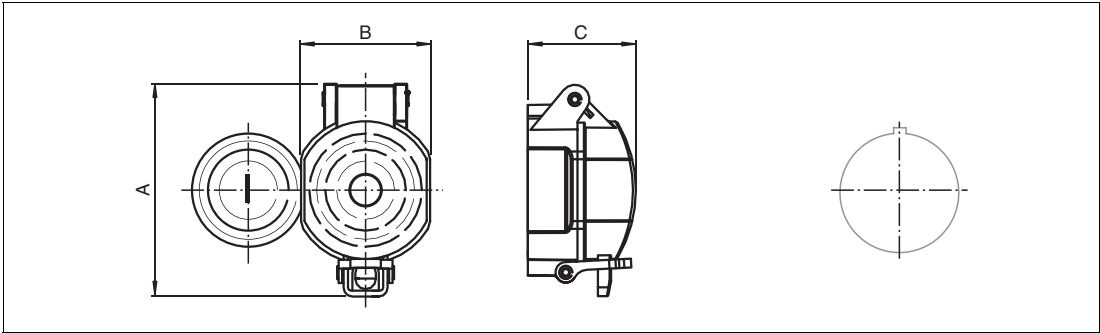


Figure 4.4

CFP.ZBR, CFP.ZJR

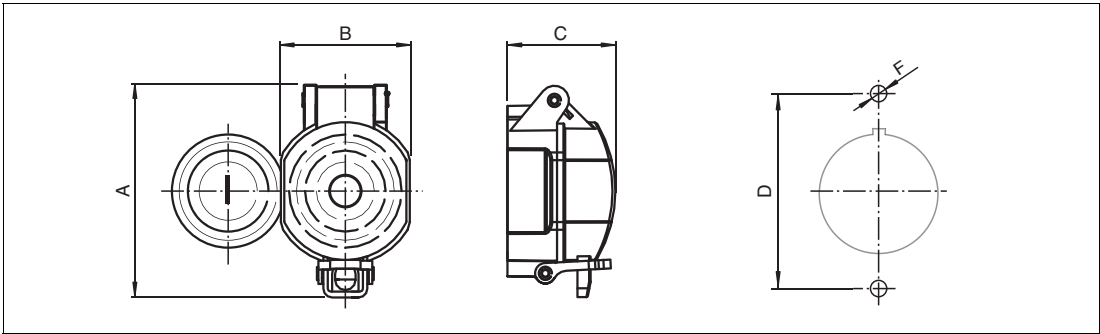


Figure 4.5

CFP.ZAR-4

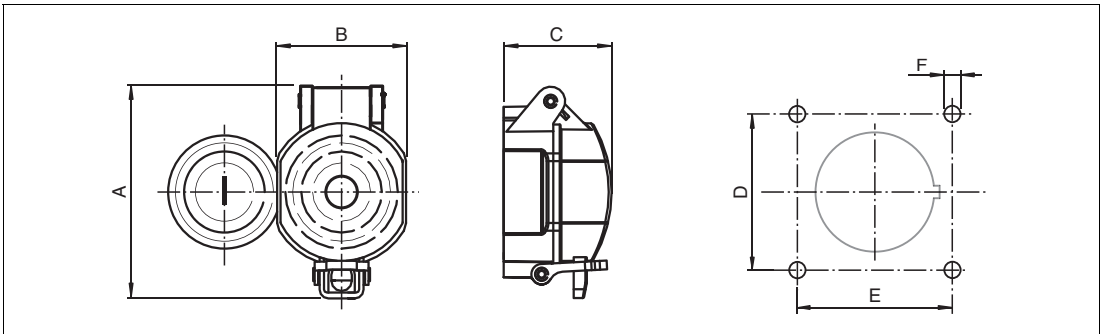


Figure 4.6

CFP.ZP

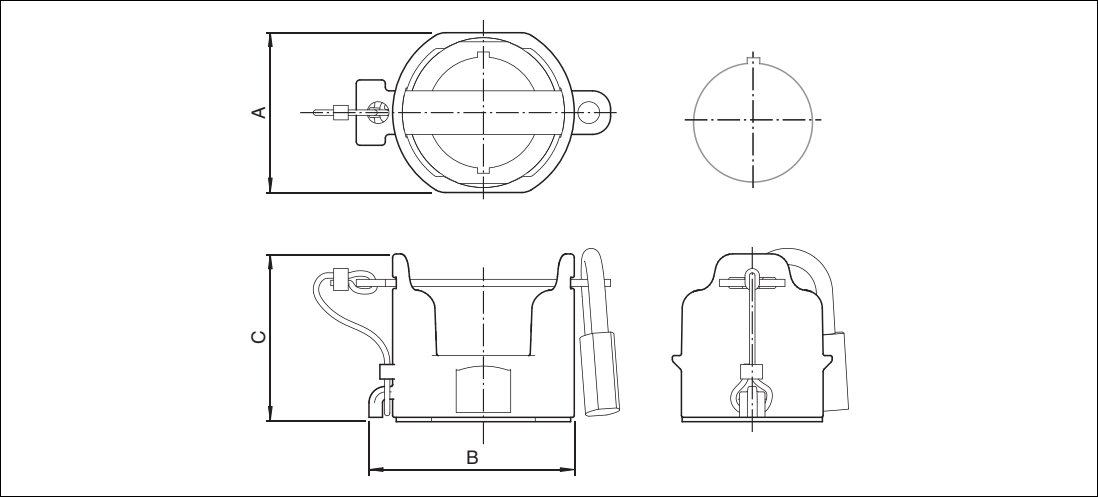


Figure 4.7

CFP.ZPR

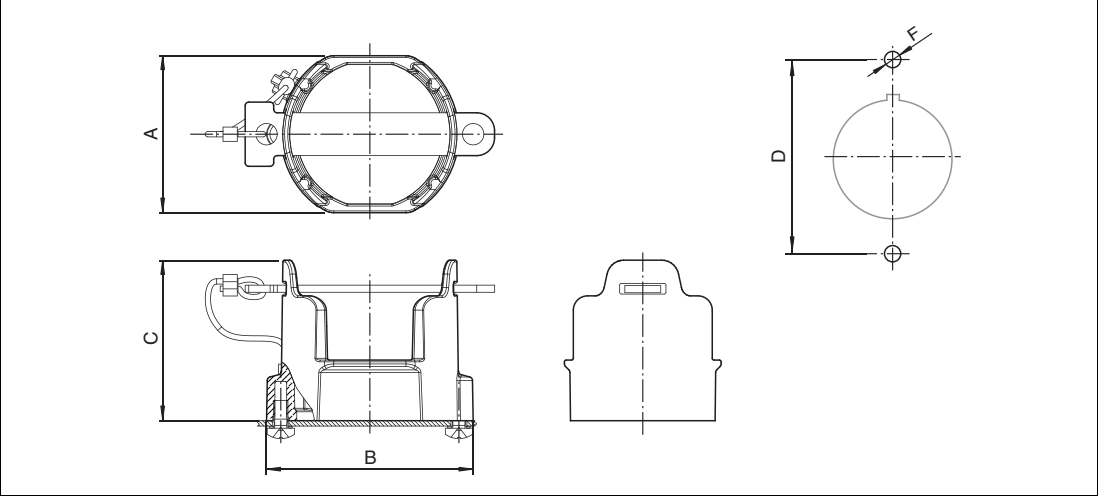


Figure 4.8

CFP.ZEB, CFP.ZEB.V2

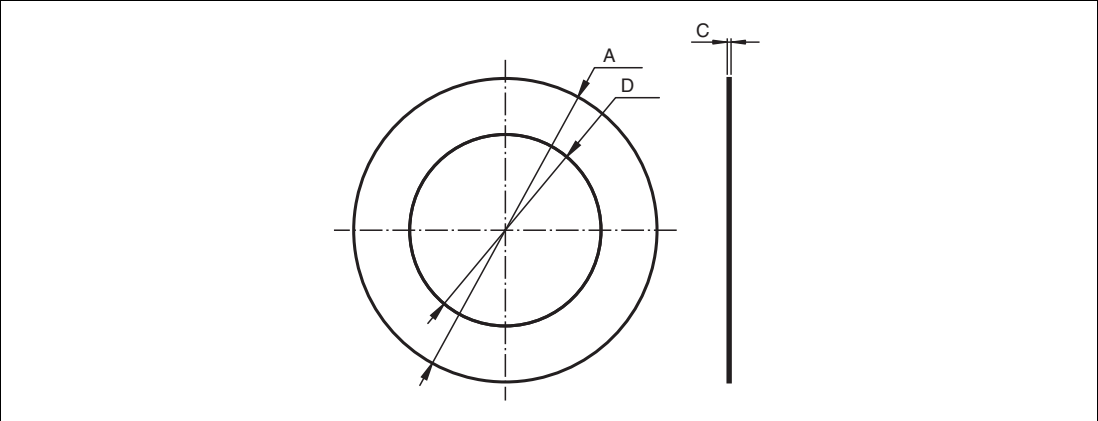


Figure 4.9

CFP.ZCT

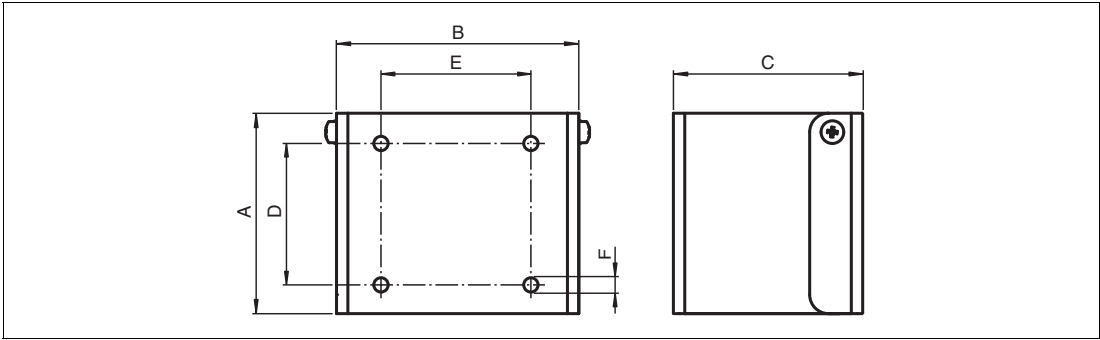


Figure 4.10

CFP.ZDT

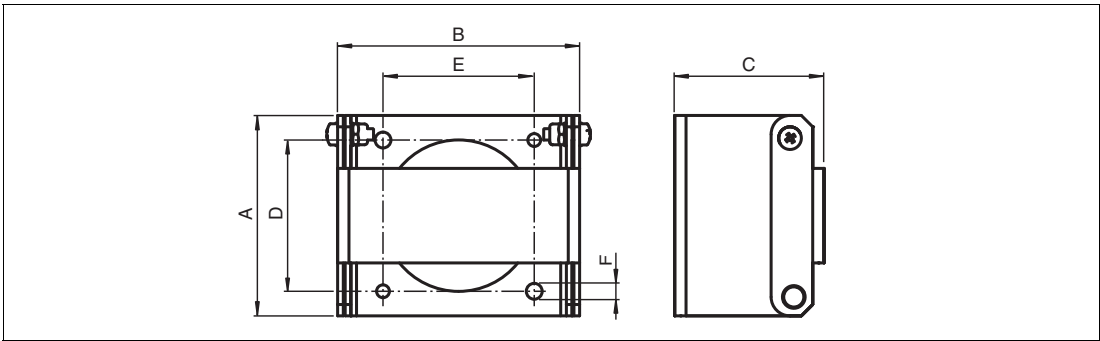


Figure 4.11

CFP.BK

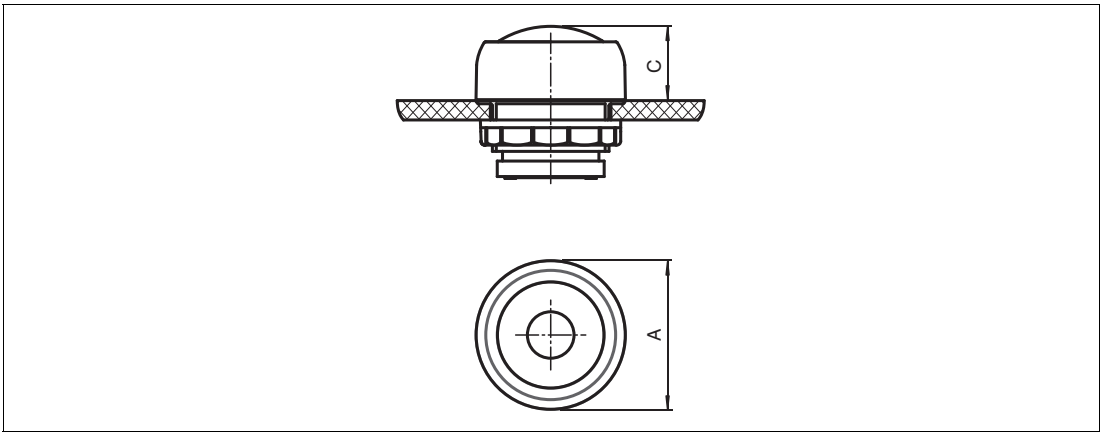


Figure 4.12

4.5 Type Code / Model Number

Windows

1		2	3		4
CFP	.	*	*	.	*
CFP	.	W	X	.	SP

Example: CFP.WR.SP

control element Ex e, viewing window black housing, circular viewing window, spare part

1	Series
CFP	control element Ex e

2	Operating Element Type	3	Function
W	viewing window, black housing	R	circular viewing window
		C	rectangular viewing window

4	Product Type
SP	spare part

Accessories

1		2	3	4		6
CFP	.	*	*	*	.	*
CFP	.	Z	B	R	.	SP

Example: CFP.ZBR.SP

control element Ex e, actuator flap, for cover-mounted modules, spare part

1	Series
CFP	control element Ex e

2	Operating Element Type	3	4	Function
Z	actuator flap	B		For cover-mounted contact modules
		J		For cover-mounted contact modules
		A		For cover-mounted contact modules
			R	For base-mounted contact modules
		CT		For base-mounted and cover-mounted contact modules
Z	label holder	1		For base-mounted and cover-mounted contact modules
		3		For base-mounted and cover-mounted contact modules
		7		For base-mounted and cover-mounted contact modules
Z	padlockable shroud	P		For cover-mounted contact modules
			R	For base-mounted contact modules
		DT		For base-mounted and cover-mounted contact modules
Z	emergency stop label	EB		
		EB.V2		
Z	switching block bracket	G		For cover-mounted switching block modules
Z	padlock	U		
Z	spare keys 2 pcs.	K1		
B	blanking plug	K		

2026-05

2	Operating Element Type	3	4	Function
T	locknut spanner	P		For CFP actuator heads
		S		For CFP buzzers

5	Product Type
SP	spare part

4.6 Variant-Specific Data

Values might differ slightly due to manufacturing tolerances.

Windows

Type	External dimensions [mm]							Mass [g]
	A	B	C	D	E	F	G	
CFP.WC	200	-	16	160	-	-	-	48
CFP.WR	166	266	12	125	224	-	-	48

Table 4.11

Accessories

Type	External dimensions [mm]							Mass [g]
	A	B	C	D	E	F	G	
CFP.Z1	61.5	39	4	18	35	-	-	3
CFP.Z3	76	60	4	12	56	-	-	8
CFP.Z7	49	39	4.1	6.6	29	-	-	2
CFP.ZB	72	44	37	-	-	-	-	54
CFP.ZBR	72	44	37	50	-	4.2	-	61
CFP.ZJ	72	44	37	-	-	-	-	30
CFP.ZJR	72	44	37	50	-	4.2	-	27
CFP.ZA	70.2	58	50	-	-	-	-	50
CFP.ZAR-4	70.2	58	50	40	40	4.2	-	80
CFP.ZP	41	58	45	-	-	-	-	76
CFP.ZPR	41	58	45	50	-	4.2	-	75
CFP.ZEB	55	-	2	40	-	-	-	1
CFP.ZEB.V2	55	-	2	40	-	-	-	1
CFP.ZCT	53	70	50	40	40	4.2	-	133
CFP.ZDT	53	70	39.5	40	40	4.2	-	97
CFP.BK	39	-	20	-	-	-	-	22

Table 4.12

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