

Control Stations Ex e, Stainless Steel, base-mounted contact modules

SR.CS*

- Stainless Steel enclosure
- Installation in Zone 1, Zone 2, Zone 21 and Zone 22
- Base-mounted contact modules on DIN-rails for easy access
- Ex db eb, Ex ib and Ex tb certified
- Up to 40 operators per control station
- 3 enclosure size options
- Return Flange Sealing provides Drain Channel
- Customizable configuration of operators, cable entry quantities and cable gland types as per specification
- Customizable configuration of ground bolt as per specification
- Option for vertical or horizontal mounting provides high flexibility
- Wide range of labels and accessories available

Control Stations Ex e, Stainless Steel, base-mounted contact modules











Function

The SR series is a flexible range of control stations that are fully customizable.

A comprehensive range of operating elements, contact modules, terminals, entry devices and enclosure accessories are available to ensure each configuration will exactly meet any application requirements. For easy access the contact modules are mounted on DIN-rails at the base of the enclosure.

Enclosures are manufactured from brushed AISI 316L stainless steel and all fixings are manufactured from A4 grade stainless steel as standard to Provide excellent tarnish and corrosion resistance.

Your solution can be mounted in portrait or landscape orientation in temperatures ranging from -50°C up to +55 °C. Endless configurations can be

confirmed by your local Pepperl+Fuchs office.

Technical Data

Electrical specifications

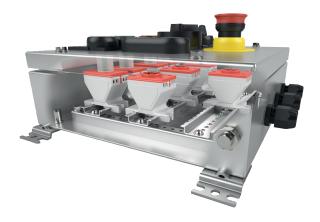
Operating voltage	400 V AC max.
Operating current	16 A max.
Terminal capacity	2.5 mm ²
Terminal torque	0.8 Nm
Mechanical specifications	
Enclosure cover	fully detachable
Cover fixing	stainless steel A4 (V4A) hexagonal head screws, see data table
Cover seal	silicone
Degree of protection	IP66
Cable entry	cable glands as per specification
Material	
Enclosure	1.5 mm AISI 316L, (1.4404) stainless steel
Finish	brushed
Mass	see data table valid for empty enclosure, will increase according to integrated components
Dimensions	see data table
Mounting	screws , optional mounting brackets enclosed
Grounding	M6 internal/external brass nickel-plated grounding bolt M6 internal stainless steel grounding bolt welded to lid M6 internal stainless steel grounding bolt welded to enclosure body
Ambient conditions	
Ambient temperature	-50 55 °C (-58 131 °F) depending on integrated components
Data for application in connection with hazar	dous areas



Technical Data

EU-type examination certificate	CML 16 ATEX 3009X
Marking	
International approvals	
IECEx approval	IECEx CML 16.0008X
UKCA approval	CML 21 UKEX 2550X
ECAS approval	22-10-53256/E22-09-052316/NB0002
Conformity	
Degree of protection	EN60529
CE marking	0102
General information	
Ordering information	This device will be delivered completely configured and assembled ready for use. For configuration details please contact Customer Service.
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.
Accessories	
Optional accessories	M6 internal/external stainless steel grounding bolt engraved traffolyte tag label engraved AISI 316L stainless steel tag label color in-fill stainless steel tag label
Indicators/operating means	
Control elements	small footprint max. 40 see data table all NC contacts have a direct opening action for emergency stop functions

Assembly



Type Code

	1	2	3	4	5	6	7		8	9
Ī	SR	***	**	**	**	*	*	-	*	****
[SR	CSE	38	48	09	В	0	-	S	0001

Example: SR.CSE.38.48.09.B.0-S0001 Control Station stainless steel, size 38x48x9 cm, landscape orientation with face B at bottom, standard product

1	Enclosure type
SR	stainless steel
2	Type of solution
CSE	control station (Ex e)

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

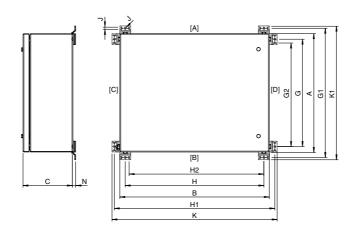
CSI

control station (Ex i)

2

Release date: 2022-12-14 Date of issue: 2022-12-14 Filename: t208145_eng.pdf

Type Cod	de
2	Type of solution
CSM	control station, various types of explosion protection, e.g. (Ex e, Ex i) or (Ex e, Ex op pr)
3	Height [cm]
n	see dimensions data table
4	Width [cm]
n	see dimensions data table
5	Depth [cm]
n	see dimensions data table
6	Cable entry face orientation
B D	face [B] at bottom
Б	face [D] at bottom
7	Gland plates
0	none
8	Variant
S	standard product
С	configured product
CA	configured and adapted product
Υ	engineered product
9	Variant number
xxxx	consecutive item number



Type	External dimensions [mm]				Mounting [mm]						Mass approx.	Cover screws					
Туре	A	В	С	К	K1	G	G1	G2	н	H1	H2	J	N	[kg]	Mx	qty.	Torque [Nm]
SRM.26.26.09	260	260	87	310	310	225	295	212.5	225	295	212.5	7	8.5	5.3	M6	4	3 - 3.5
SRM.31.31.09	310	310	87	360	360	275	345	262.5	275	345	262.5	7	8.5	7.2	M6	4	3 - 3.5
SRM.38.48.09	380	480	87	430	530	345	415	332.5	445	515	432.5	7	8.5	11	M6	6	3 - 3.5

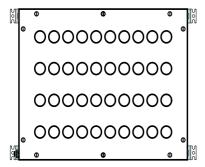
Mass is valid for empty enclosure, it will increase according to enclosure accessories, integrated components and entry devices

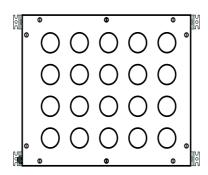
Control Elements max. Quantity per Enclosure Type

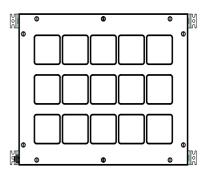
		Control elements quantity max.											
Туре		small footprint			large footprint		viewing windows						
	vertical	horizontal	total	vertical	horizontal	total	vertical	horizontal	total				
SRM.26.26.09	3	4	12	2	2	4	2	2	4				
SRM.31.31.09	3	5	15	3	3	9	3	3	9				
SRM.38.48.09	4	10	40	4	5	20	3	5	15				

Quantities are based on horizontal DIN mounting rails, they may vary with vertical DIN mounting rails

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Example based on SR.CSE.38.48.09.B

Left (small footprint):

Small operating elements with small label holder and 2 pole contact blocks

Small operating elements include all pushbuttons, small switching actuators, LED indicators and potentiometers

Middle (large footprint):

Large switching actuators and all operating elements fitted with 4 pole contact modules, protective lid or padlockable shroud

Viewing windows with ammeter or voltmeter as well as operating elements with large label holders

The use of label holders depends on operating elements configuration The position of the grounding bolt can vary depending on configuration All NC contacts have a direct opening action for emergency stop functions

For further configurations please contact Pepperl+Fuchs

Pushbuttons and Emergency Stops

Pushbutte	ons Actuator Heads	3	
Туре	Color	Labeling	Image
CFP.PA	red	none	
CFP.PR	red	0	0
CFP.PC	red	STOP	
CFP.PD	red	OFF	OFF
CFP.PE	green	none	
CFP.PG	green	I	
CFP.PI	green	II	
CFP.PF	green	START	
CFP.PH	green	ON	ON
CFP.PY	yellow	none	0
CFP.PO	amber	none	
CFP.PW	white	none	0
CFP.PB	blue	none	
CFP.PJ	blue	RESET	
CFP.PK	black	none	
CFP.PL	black	0	0
CFP.PN	black	I	
CFP.PP	black	II	
CFP.PQ	black	III	
CFP.PT	black	IV	IV
CFP.PU	black	arrow up	
CFP.PV	black	arrow down	
CFP.PZ*	see individual	0	

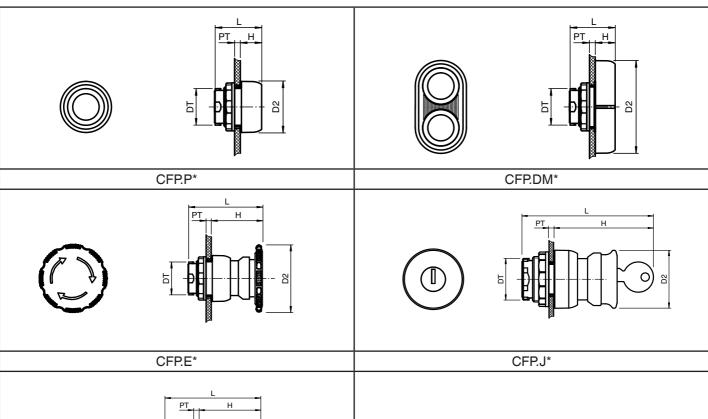
Actuator Heads - Techni	cal Data				
Mechanical specification	ıs				
Dimensions	see data table				
Mounting	use with base-mounted and lid-mounted contact modules				
Degree of protection	IP66				
Mass	see data table				
Material					
Housing	Polyamide (PA)				
Finish	inherent color black				
Washer gasket	silicone				
Ambient conditions					
Ambient temperature	-40 55 °C (-40 131 °F)				
Service temperature	-40 65 °C (-40 149 °F)				
Data for application in co	onnection with				
EU-Type Examination Certificate	CML 16 ATEX 3339U				
Marking	Ex e IIC Gb Ex tb IIIC Db				
International approvals					
IECEx approval	IECEx CML 16.0114U				
Conformity					
Degree of protection	EN 60529				
CE marking	0102				
General information					
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.				
Enclosure type	LC*, LR* FXL*.CS, SR.CS* GR.CS*				

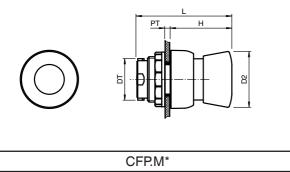
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Emergency Stops Actuator Heads											
Туре	Function	Color	Labeling	Operator action	Actuator head diameter	Switching diagram	Image				
CFP.E4	mushroom button	red	none	latching, twist to release	40 mm	(0				
CFP.E5	mushroom button	red	none	latching, twist to release	55 mm	4					
CFP.JR	mushroom button	red	none	latching, key release	39 mm	(

Other Pushbuttons Actuator Heads											
Туре	Function	Color	Labeling	Operator action	Actuator head diameter	Switching diagram	Image				
CFP.DM	pushbutton	red / green	0 - I	spring return	70 mm x 39 mm	E	0				
CFP.MK	mushroom button	black	none	spring return	39 mm	(
CFP.MR	mushroom button	red	none	spring return	39 mm	(
CFP.MG	mushroom button	green	none	spring return	39 mm	(

Pushbuttons and Emergency Stops - Dimensions									
Туре	Function	Actuator head diameter [mm]	Panel wall thickness [mm]	Diameter thru-hole [mm]	Length outside enclosure [mm]	Total length [mm]	Mass [g]		
			PT	DT	н	L			
CFP.P*	pushbutton	39	1 6	30.6	15.5	35.4	25		
CFP.DM*	double pushbutton	70 x 39	1 6	30.6	15.5	35.4	38		
CFP.E4	emergency stop	40	1 6	30.6	41.8	62.1	52		
CFP.E5	emergency stop	55	1 6	30.6	41.8	62.1	58		
CFP.JR	key release mushroom button	39	1 6	30.6	49.5	70	65		
CFP.M*	mushroom button	37	1 6	30.6	41.2	60.7	46		





Pushbuttons and Emergency Stops

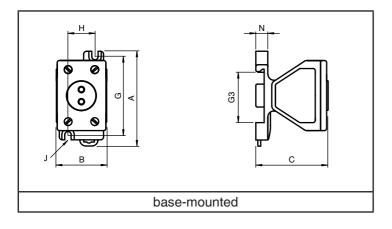
Contact Block	(S				
Туре	Mounting	Number of poles	Contact configuration	Switching diagram see overview	Image
CFP.M	base-mounted	2	1x NO / 1x NC	11 23	SM.
CFP.C	base-mounted	2	2x NC	11 21	
CFP.O	base-mounted	2	2x NO	13 23 	7 7

al Data
250 V max.
16 A max.
2.5 mm ²
0.8 Nm
AC12: 12 250 V AC - 16 A AC15: 12 250 V AC - 10 A DC13: 12 110 V DC - 1 A DC13: 12 24 V DC - 1 A
s
1000000 switching operations
IP20
Polyamide (PA)
-40 90 °C (-40 194 °F)
onnection
CML 16 ATEX 3339U
Ex de IIC Gb

Contact Blocks - Technical Data continued						
International approvals						
IECEx approval	IECEx CML 16.0114U					
Conformity						
Degree of protection	EN 60529					
Usage category	IEC / EN 60947					
CE marking	0102					
General information						
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.					

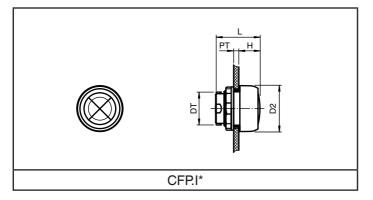
Pushbuttons and Emergency Stops

Contact Blocks - Dimensions										
Mounting	Exterr	nal dime [mm]	ension	Mounting holes [mm]		Mounting brackets [mm]	DIN mounting rail receptacle [mm]	Mass [g]	Enclosure type	
	A	В	С	G	н	Diam. J	N	G3		
base-mounted	63	33.4	50	52	18	4.2	8	35.6	68	LC*, LR* GR.CS* SR.CS*



Illuminated Pushbuttons

Illuminated Pushbuttons Actuator Heads								
Туре	Lens color	Operator action	Switching diagram	Image				
CFP.IR	red	spring return	E					
CFP.IG	green	spring return	E					
CFP.IO	amber	spring return	E					
CFP.IW	white	spring return	E					
CFP.IB	blue	spring return	E					



Actuator Heads - Technical Data							
Mechanical specifications							
Degree of protection	IP66						
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 for application in o with hazardous areas	connection						
EU-Type Examination Certificate	CML 16 ATEX 3339U						
Marking	II 2 GDEx e IIC GbEx tb IIIC Db						
International approvals							
IECEx approval	IECEx CML 16.0114U						
Conformity							
Degree of protection	EN 60529						
CE marking	0102						
General information							
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.						

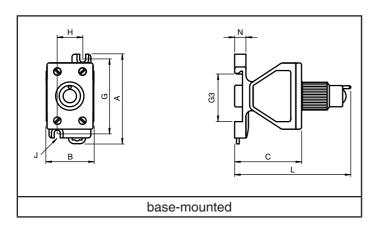
Illuminated Pushbuttons Actuator Heads - Dimensions								
Actuator head diameter [mm]	Panel wall thickness [mm]	Diameter thru-hole [mm]	Length outside enclosure [mm]	Total length [mm]	Mass [g]	Mounting	Enclosure type	
D2	PT	DT	н	L				
39	1 6	30.6	17.5	36.8	21	use with base-mounted and cover-mounted contact modules	LC*, LR* FXL*.CS GR.CS* SR.CS*	

Illuminated Pushbuttons

LED Contact Modules								
Туре	Mounting	Operating voltage [V]	Number of poles	Contact configuration	Switching diagram	Image		
CFP.IL	base-mounted	10 28 V AC/DC	1	1x NO				
CFP.I	base-mounted	30 250 V AC	1	1x NO	3 X1 \			
CFP.II	base-mounted	10 28 V AC/DC Ex ia	1	1x NO	7 12	3 3		
CFP.JL	base-mounted	10 28 V AC/DC	1	1x NC				
CFP.J	base-mounted	30 250 V AC	1	1x NC	1 X1 			
CFP.JI	base-mounted	10 28 V AC/DC Ex ia	1	1x NC	٤ ٨٤			

Illuminated Pushbuttons

LED Contact Modules - Dimensions													
Mounting	Ext	ernal d [m	limens m]	sion	Mounting holes [mm]				nrackets		DIN rail receptacle [mm]	Mass	Enclosure
	A	В	С	L	G	н	Diam. J	N	G3	[g]	type		
base-mounted	63	33.4	47	82	52	18	4.2	8	35.6	72	LC*, LR* GR.CS* SR.CS*		



LED Modules - Technica	I Data
Electrical specifications	
Operating voltage	250 V max.
Operating current	10 A max.
Power consumption	1 W max.
Terminal capacity	2.5 mm ²
Terminal torque	0.8 Nm
Usage category	AC15: 10 250 V AC - 10 A DC13: 10 24 V DC - 1 A
Mechanical specification	S
Mechanical life	1000000 switching operations
Degree of protection	IP20
Material	
Housing	Polyamide (PA)
Ambient conditions	
Service temperature	-55 90 °C (-67 194 °F)
Data for application in co	onnection with
EU-Type Examination Certificate	CML 16 ATEX 3339U
Marking	Ex de IIC Gb
Intrinsically safe varian	ts
Marking	😥 II 1 G Ex ia IIC Ga
Voltage U _i	28 V
Current I _i	93 mA
Power P _i	0.651 W
Internal capacitance C _i	0 μF
Internal inductance L _i	0 mH
International approvals	
IECEx approval	IECEx CML 16.0114U
Conformity	
Degree of protection	EN 60529
Usage category	IEC / EN 60947-3
CE marking	0102

LED Modules - Technica	LED Modules - Technical Data						
General information	General information						
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.						

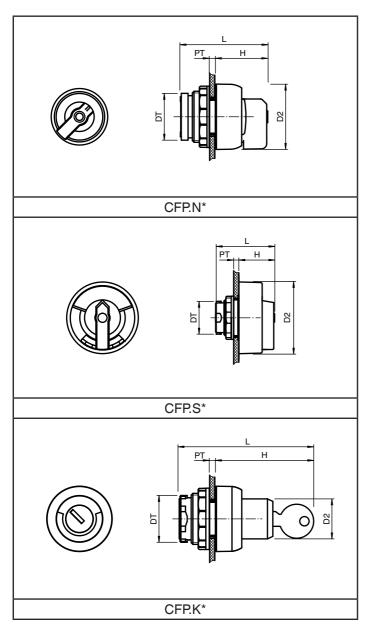
Control Switches Actuator Heads, for use with GR.CS* and SR.CS*

Control Sw	trol Switch Actuator Heads							
Туре	Function	Dia- meter [mm]	Switching configuration	Switching diagram	Opera- tor action	Labeling	Lock- able	Image
CFP.N6	rotary actuator	39	2 position changeover with left OFF	F\\-\-\-\	L-L	0 - I	-	
CFP.N7	rotary actuator	39	2 position changeover	F\-\-\-\-\-\	L-L	I - II	-	
CFP.N8	rotary actuator	39	3 position changeover with center OFF	<u>}</u> Λ^	L-L-L	I - O - II	-	
CFP.N8S	rotary actuator	39	3 position changeover with center OFF	<u></u> γ	S-L-S	I - O - II	-	
CFP.N9	rotary actuator	39	3 position changeover with left OFF	Ŀ <u>···</u> /	L-L-L	0 - I - II	-	
CFP.S6	rotary actuator	60	2 position changeover with left OFF	F\-\-\-\-\-\	L-L	0 - 1	yes	
CFP.S7	rotary actuator	60	2 position changeover	J\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-	L-L	I - II	-	
CFP.S8	rotary actuator	60	3 position changeover with center OFF	<u>}</u> ^^	L-L-L	I - O - II	yes	
CFP.S8S	rotary actuator	60	3 position changeover with center OFF	J\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-	S-L-S	I - O - II	yes	
CFP.S9	rotary actuator	60	3 position changeover with left OFF	F\\\	L-L-L	0 - I - II	yes	
CFP.K6	key switch rotary actuator	39	2 position changeover with left OFF	F\\-\-\-\	L-L	0 - 1	yes	
CFP.K6S	key switch rotary actuator	39	2 position changeover with left OFF	FV	L-S	0 - 1	yes	
CFP.K8	key switch rotary actuator	39	3 position changeover with center OFF	<u>}</u> ^^	L-L-L	I - O - II	yes	
CFP.K8S	key switch rotary actuator	39	3 position changeover with center OFF	F\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	S-L-S	I - 0 - II	yes	

Operator action: L = latching, S = spring return

Control Switches Actuator Heads

Actuator Heads - Dimensions



Actuator Heads - Techn	ical Data
Mechanical specificatio	
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 for application in chazardous areas	onnection with
EU-Type Examination Certificate	CML 16 ATEX 3339U
Marking	Ex e IIC Gb Ex tb IIIC Db
International approvals	
IECEx approval	IECEx CML 16.0114U
Conformity	
Degree of protection	EN 60529
CE marking	0102
General information	
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.

Туре	Actuator head diameter [mm]	Panel wall thickness [mm]	Diameter thru-hole [mm]	Length outside enclosure [mm]	Total length [mm]	Mass [g]	Image example
	D2	PT	DT	н	L		
CFP.N*	39	1 6	30.6	30.5	50.5	30	
CFP.S*	60	1 6	30.6	30.5	50.5	46	
CFP.K*	39	1 6	30.6	49.5	70	46	

Control Switches, 2 Pole Contact Blocks, for use with GR.CS* and SR.CS*

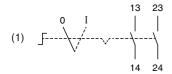
Combination	of 2 Pole	Contact Blocks and A	ctuator H	leads					
Actuator head function	Actuator head diameter [mm]	Switching configuration	Contact block	Contacts	Switching diagram see overview	Opera- tor action	Label- ing	Lock- able	Actu- ator type
rotary actuator	39	2 position changeover with left OFF	0	2x NO	(1)	L-L	0 - I	-	N6
rotary actuator	39	2 position changeover	М	1x NO / 1x NC	(2)	L-L	I - II	-	N7
rotary actuator	39	3 position changeover with center OFF	0	2x NO	(4)	L-L-L	I - 0 - II	-	N8
rotary actuator	39	3 position changeover with center OFF	0	2x NO	(4)	S-L-S	I - 0 - II	-	N8S
rotary actuator	39	3 position changeover with left OFF	М	1x NO / 1x NC	(3)	L-L-L	0 - I - II	-	N9
rotary actuator	60	2 position changeover with left OFF	0	2x NO	(1)	L-L	0 - 1	yes	S6
rotary actuator	60	2 position changeover	М	1x NO / 1x NC	(2)	L-L	1 - 11	-	S 7
rotary actuator	60	3 position changeover with center OFF	0	2x NO	(4)	L-L-L	I - 0 - II	yes	S8
rotary actuator	60	3 position changeover with center OFF	0	2x NO	(4)	S-L-S	I - 0 - II	yes	S8S
rotary actuator	60	3 position changeover with left OFF	М	1x NO / 1x NC	(3)	L-L-L	0 - I - II	yes	S9
key switch rotary actuator	39	2 position changeover with left OFF	0	2x NO	(1)	L-L	0 - 1	yes	K6
key switch rotary actuator	39	2 position changeover with left OFF	0	2x NO	(1)	L-S	0 - 1	yes	K6S
key switch rotary actuator	39	3 position changeover with center OFF	0	2x NO	(4)	L-L-L	I - 0 - II	yes	K8
key switch rotary actuator	39	3 position changeover with center OFF	0	2x NO	(4)	S-L-S	I - 0 - II	yes	K8S

Operator action: L = latching, S = spring return

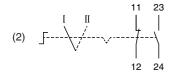
Contact Block	ntact Blocks				
Туре	Mounting	Number of poles	Contact configuration	Switching diagram	Image
CFP.M	base-mounted	2	1x NO / 1x NC	11 23	nik
CFP.C	base-mounted	2	2x NC	11 21 	
CFP.O	base-mounted	2	2x NO	13 23 	,

Control Switches, 2 Pole Contact Blocks, for use with GR.CS* and SR.CS*

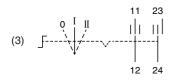
Switching Diagrams



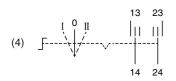
	13	23
0		
I	Х	Х
	14	24

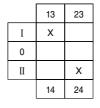


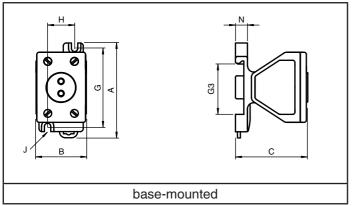
	11	23
I	Х	
II		Х
	12	24



	11	23
0		
I	Х	
II		Х
	12	24







Contact Blocks - Techni	ical Data
Electrical specifications	
Operating voltage	250 V max.
Operating current	16 A max.
Terminal capacity	2.5 mm ²
Terminal torque	0.8 Nm
Usage category	AC12: 12 250 V AC - 16 A AC15: 12 250 V AC - 10 A DC13: 12 110 V DC - 1 A DC13: 12 24 V DC - 1 A
Mechanical specification	ns
Mechanical life	1000000 switching operations
Degree of protection	IP20
Material	
Housing	Polyamide (PA)
Ambient conditions	
Service temperature	-40 90 °C (-40 194 °F)
Data for application in c with hazardous areas	onnection
EU-Type Examination Certificate	CML 16 ATEX 3339U
Marking	
International approvals	
IECEx approval	IECEx CML 16.0114U
Conformity	
Degree of protection	EN 60529
Usage category	IEC / EN 60947
CE marking	0102
General information	
	EC-Type Examination

base-mounted

Contact Blocks -	Contact Blocks - Dimensions									
Mounting	Extern	nal dime [mm]	ension	M	ounting [mn		Mounting brackets [mm]	DIN mounting rail receptacle [mm]	Mass [g]	Enclosure type
	A	В	С	G	н	Diam. J	N	G3		
base-mounted	63	33.4	50	52	18	4.2	8	35.6	68	GR.CS* SR.CS*

Supplementary

information

Certificate, Statement of Conformity, Declaration of

Conformity, Attestation of

Conformity and instructions have to be observed where

applicable. For information see www.pepperl-fuchs.com.

Control Switches, 4 Pole Contact Blocks, for use with GR.CS* and SR.CS*

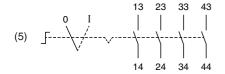
Combination	of 4 Pole	Contact Blocks and A	ctuator F	leads					
Actuator head function	Actuator head diameter [mm]	Switching	Contact block	Contacts	Switching diagram see overview	Opera- tor action	Label- ing	Lock- able	Actu- ator type
rotary actuator	60	2 position changeover with left OFF	03	4x NO	(5)	L-L	0 - 1	yes	S6
rotary actuator	60	2 position changeover	01	2x NO / 2x NC	(6)	L-L	1 - 11	-	S7
rotary actuator	60	3 position changeover with center OFF	03	4x NO	(7)	L - L - L	I - 0 - II	yes	S8
rotary actuator	60	3 position changeover with center OFF	03	4x NO	(7)	S-L-S	I - 0 - II	yes	S8S

Operator action: L = latching, S = spring return

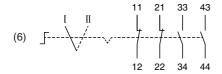
Contact Block	(S				
Туре	Mounting	Number of poles	Contact configuration	Switching diagram	Image
CFP.01	base-mounted	4	2x NO / 2x NC	11 21 33 43	
CFP.02	base-mounted	4	4x NC	11 21 31 41	A
CFP.03	base-mounted	4	4x NO	13 23 33 43	
CFP.04	base-mounted	4	1x NO / 3x NC	11 23 33 43	
CFP.05	base-mounted	4	3x NO / 1x NC	11 23 33 43	

Control Switches, 4 Pole Contact Blocks, for use with GR.CS* and SR.CS*

Switching Diagrams



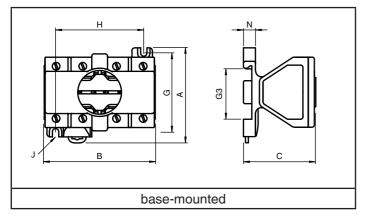
	13	23	33	43
0				
I	х	х	Х	х
	14	24	34	44



	11	21	33	43
I	х	х		
II			Х	Х
	12	22	34	44



	13	23	33	43
I	Х	Х		
0				
II			Х	Х
	14	24	34	44



Contact Blocks - Techn	ical Data
Electrical specifications	
Operating voltage	250 V max.
Operating current	16 A max.
Terminal capacity	2.5 mm ²
Terminal torque	0.8 Nm
Usage category	AC12: 12 250 V AC - 16 A AC15: 12 250 V AC - 10 A DC13: 12 110 V DC - 1 A DC13: 12 24 V DC - 1 A
Mechanical specification	ns
Mechanical life	1000000 switching operations
Degree of protection	IP20
Material	
Housing	Polyamide (PA)
Ambient conditions	
Service temperature	-40 90 °C (-40 194 °F)
Data for application in c with hazardous areas	onnection
EU-Type Examination Certificate	CML 16 ATEX 3339U
Marking	
International approvals	
IECEx approval	IECEx CML 16.0114U
Conformity	
Degree of protection	EN 60529
Usage category	IEC / EN 60947
CE marking	0102
General information	
	EC-Type Examination

Contact Blocks - Dimensions											
Mounting	External dimension [mm]			Mounting holes [mm]			Mounting brackets [mm] DIN receptacle [mm]		Mass [g]	Enclosure type	
	A	В	С	G	н	Diam. J	N	G3			
base-mounted	63	74	58.6	52	58	4.2	8	35.6	165	GR.CS* SR.CS*	

Supplementary

information

Certificate, Statement of Conformity, Declaration of

Conformity, Attestation of

Conformity and instructions have to be observed where

applicable. For information see www.pepperl-fuchs.com.

Control Switches, 4 Pole Rotary Switching Blocks, for use with GR.CS* and SR.CS*

Combination of 4 Pole Rotary Switching Blocks and Actuator Heads											
Switching configuration	Swit- ching block	Contacts	Switching diagram see overview	Operator action	Labeling	Lock- able	Actu- ator type				
2 position changeover, left OFF	10	4x NO	(10)	L-L	O - I	yes	T6				
2 position changeover	11	2x NO / 2x NC	(11)	L-L	1 - 11	-	T7				
2 position changeover	17	3x NO / 1x NC	(17)	L-L	I - II	-	T7				
2 position changeover	18	1x NO / 3x NC	(18)	L-L	I - II	-	T7				
3 position changeover, center OFF	12	4x NO	(12)	L-L-L	I - 0 - II	yes	Т8				
3 position changeover, center OFF	14	4x NO	(14)	L-L-L	I - 0 - II	yes	Т8				
3 position changeover, center OFF, both sides spring return	13	4x NO	(13)	S-L-S	I - 0 - II	yes	Т8				
3 position changeover	22	4x NO	(22)	L-L-L	I - 0 - II	-	Т8				
3 position changeover	23	4x NO	(23)	L - L - L	0 - I - II	-	T0				
3 position changeover, right spring return	19	2x NO / 2x NC	(19)	L-L-S	0 - I - II	-	ТО				
3 position changeover, right spring return	16	3x NO / 1x NC	(16)	L-L-S	0 - I - II	-	T0				
4 position changeover	15	3x NO / 1x NC	(15)	L-L-L-L	I - II - III - IV	-	Т9				
4 position changeover, right spring return	20	4x NO	(20)	L-L-L-S	I - II - III - IV	-	Т9				
4 position changeover	21	4x NO	(21)	L-L-L-L	I - II - III - IV	-	Т9				

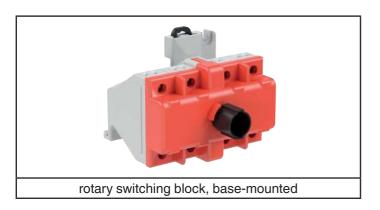
Operator action: L = latching, S = spring return

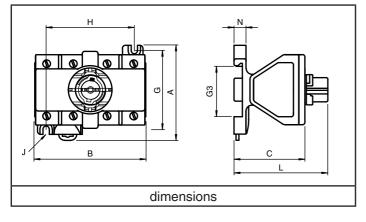
www.pepperl-fuchs.com

Control Switches, 4 Pole Rotary Switching Blocks, for use with GR.CS* and SR.CS*

Dimensions







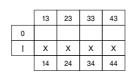
Switching Blocks - Techr	nical Data
Electrical specifications	
Operating voltage	250 V max.
Operating current	16 A max.
Terminal capacity	2.5 mm ²
Terminal torque	0.8 Nm
Usage category	AC12: 12 250 V AC - 16 A AC15: 12 250 V AC - 10 A DC13: 12 110 V DC - 1 A DC13: 12 24 V DC - 1 A
Mechanical specification	s
Mechanical life	1000000 switching operations
Degree of protection	IP20
Material	
Housing	Polyamide (PA)
Ambient conditions	
Service temperature	-40 90 °C (-40 194 °F)
Data for application in co with hazardous areas	onnection
EU-Type Examination Certificate	CML 16 ATEX 3339U
Marking	II 2 G Ex de IIC Gb
International approvals	
IECEx approval	IECEx CML 16.0114U
Conformity	
Degree of protection	EN 60529
Usage category	IEC / EN 60947
CE marking	0102
General information	
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information

Switching Blocks - Dimensions											
Mounting	External dimension [mm]			Mounting holes [mm]			Mounting brackets [mm]	DIN mounting rail receptacle [mm]	Mass [g]	Enclosure type	
	A	В	С	G	н	Diam. J	N	G3			
base-mounted	63	74	72	52	58	4.2	8	35.6	171	GR.CS* SR.CS*	

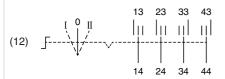
see www.pepperl-fuchs.com.

Control Switches, 4 Pole Rotary Switching Blocks, Switching diagrams



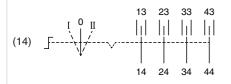


	10	23	21	41						
I II	l I	23 	J	41			13	23	31	41
(11) F \ /	ν.Ι	΄Ι	4	4		I			Х	х
(11)				1		II	Х	Х		
	14	1 24		10	·		14	24	32	42
	14	24	32	42						

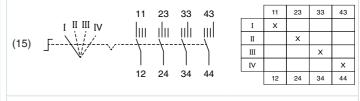


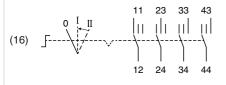
		13 23		33	43
	I	Х	Х		
	0				
	II			Х	х
		14	24	34	44

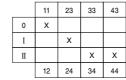
(13)	J	13	23	33	43		13	23	33	43
		- In In	nl nl	I	Х	Х				
			 	 		0				
					II			Х	Х	
		14	24	34	44		14	24	34	44



	13	23	33	43
I	Х	Х	Х	х
0				
II	х	Х	х	х
	14	24	34	44

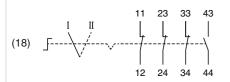




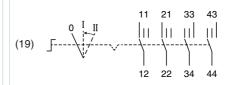


		11	23	33	43	
(17)	Z\-/\-/\-/	 	24	34	44	I

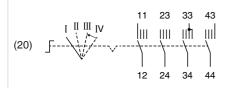
	11	23	33	43
I	х			
II		х	Х	х
	12	24	34	44



	11	23	33	43
I	х	Х	х	
II				х
	12	24	34	44



	11	21	33	43
0	Х	х		
I				
II			Х	Х
	12	22	34	44



	11	23	33	43
I	х			
II				
III			¥	
IV			¥	х
	12	24	34	44

(21) J	34	44
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	11	23	33	43
I	х			
II				
III		х		¥
IV			Х	¥
	12	24	34	44



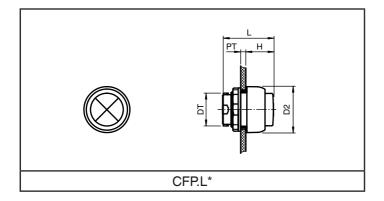
	13	23	31	43
I	х		¥	
0			¥	
II	х	Х		
	14	24	32	44



	13	23	33	43
0				
I	х		Х	
II		х		Х
	14	24	34	44

LED Indicators

LED Indicators Lenses				
Туре	Lens color	Image		
CFP.LR	red			
CFP.LG	green			
CFP.LO	amber			
CFP.LW	white			
CFP.LB	blue			

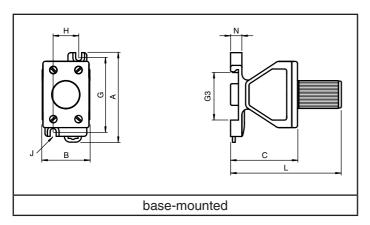


LED Heads - Technical D)ata	
Mechanical specification	ıs	
Degree of protection	IP66	
Material		
Housing	Polyamide (PA)	
Finish	inherent color black	
Washer gasket	silicone	
Ambient conditions		
Ambient temperature	-40 55 °C (-40 131 °F)	
Service temperature	-40 65 °C (-40 149 °F)	
Data for application in connection with hazardous areas		
EU-Type Examination Certificate	CML 16 ATEX 3339U	
Marking	Ex e IIC Gb Ex tb IIIC Db	
International approvals		
IECEx approval	IECEx CML 16.0114U	
Conformity		
Degree of protection	EN 60529	
CE marking	0102	
General information		
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.	

L	ED Heads - [Dimensions						
	Diameter [mm]	Panel wall thickness [mm]	Diameter thru-hole [mm]	Length outside enclosure [mm]	Total length [mm]	Mass [g]	Mounting	Enclosure type
	D2	PT	DT	Н	L			
	39	1 6	30.6	23.6	43	20	use with base-mounted and cover-mounted LED modules	LC*, LR* FXL*.CS GR.CS* SR.CS*

LED Indicators

LED Modules						
Туре	Mounting	Rated operating voltage [V AC/DC]	Image			
CFP.NI	base- mounted	10 28, Ex ia				
CFP.NE	base- mounted	10 28				
CFP.L	base- mounted	30 250				

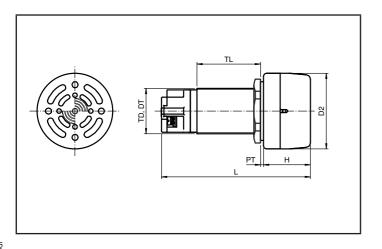


LED Modules - Technical	Data		
Electrical specifications			
Operating voltage	250 V max.		
Power consumption	2 W max.		
Terminal capacity	2.5 mm ²		
Terminal torque	0.8 Nm		
Mechanical specification	S		
Degree of protection	IP20		
Material			
Housing	Polyamide (PA)		
Ambient conditions			
Service temperature	-40 90 °C (-40 194 °F)		
Data for application in co	onnection with		
EU-Type Examination Certificate	CML 16 ATEX 3339U		
Marking	Ex de IIC Gb		
Intrinsically safe variant	ts *.NI, *.GI		
Marking	II 1 G Ex ia IIC Ga		
Voltage U _i	28 V		
Current I,	93 mA		
Power P	0.651 W		
Internal capacitance C	0 μF		
Internal inductance L	0 mH		
International approvals			
IECEx approval	IECEx CML 16.0114U		
Conformity			
Degree of protection	EN 60529		
CE marking	0102		
General information			
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.		

LED Modules - Dimensions											
Mounting	Ext	ernal c [m		sion	M		ng holes m]	Mounting brackets [mm]	DIN rail receptacle [mm]	Mass	Enclosure
	A	В	С	L	G	н	Diam. J	N	G3	[g]	type
base-mounted	63	33.4	47	84	52	18	4.2	8	35.6	61	LC*, LR* GR.CS* SR.CS*

Buzzer

Buzzer Mo	Buzzer Modules						
Туре	Function	Color	Rated operating voltage [V AC/DC]	Image			
CFP. BUZRF1	flashing buzzer	red	10 28				
CFP. BUZRF2	flashing buzzer	red	30 250				
CFP. BUZKS1	buzzer	black	10 28				
CFP. BUZKS2	buzzer	black	30 250				



Buzzer - Technical Data				
Electrical specifications				
Operating voltage	250 V max.			
Power consumption	1 W max.			
Terminal capacity	2.5 mm ²			
Terminal torque	0.8 Nm			
Sound level	60 dB at 30 cm			
Mechanical specification	s			
Degree of protection	IP66			
Material				
Housing	Polyamide (PA)			
Ambient conditions				
Ambient temperature	-40 55 °C (-40 131 °F)			
Service temperature	-40 90 °C (-40 194 °F)			
Data for application in connection with hazardous areas				
EU-Type Examination Certificate	CML 16 ATEX 3339U			
Marking	Ex e ib mb IIC Gb Ex ib tb IIIC Db			
International approvals				
IECEx approval	IECEx CML 16.0114U			
Conformity				
Degree of protection	EN 60529			
CE marking	0102			
General information				
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.			

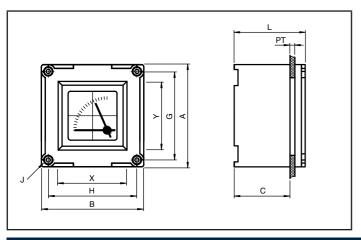
Buzzer - Dim	ensions									
Actuator head diameter [mm]	Panel wall thickness [mm]	Diameter thru-hole [mm]	Length outside enclosure [mm]	Total length [mm]	Thread size	Thread length [mm]	Mass [g]		Mounting	Enclosure type
D2	PT	DT	н	L	TD	TL				
50	1 35	30.6	31	98.5	M30 x 1.5	42	125	cover- mounted	LC*, LR* GR.CS* SR.CS* FXL*.CS	

Ammeters

Ammeter Modules							
Туре	Rated operating current	Scales see table	Image				
CFP.AA	0 1 A	scale per specification					
CFP.AB	0 5 A	scale per specification					
CFP.AC	4 20 mA	scale 4 20 / 40 mA					
CFP.AD	0 20 mA	scale 0 20 / 40 mA					

Ammeter Scales				
Scales	Type Code			
0 1 / 5 A	SA			
0 2.5 / 12.5 A	SB			
0 5 / 25 A	SC			
0 10 / 50 A	SD			
0 15 / 75 A	SE			
0 20 / 100 A	SU			
0 25 / 125 A	SF			
0 30 / 150 A	SG			
0 40 / 200 A	SH			
0 50 / 250 A	SI			
0 60 / 300 A	SJ			
0 75 / 375 A	SK			
0 100 / 500 A	SL			

Scales	Type Code
0 150 / 750 A	SM
0 200 / 1000 A	SN
0 250 / 1250 A	SO
0 300 / 1500 A	SP
0 400 / 2000 A	SQ
0 500 / 2500 A	SR
0 600 / 3000 A	SS
0 1000 / 5000 A	ST
Scale as per specification	SZ



Ammeter Modules - Tech	nical Data
Electrical specifications	
Operating voltage	500 V AC
Operating current	5 A max.
Accuracy class	1.5
Terminal capacity	2.5 mm ²
Terminal torque	0.8 Nm
Mechanical specification	S
Degree of protection	IP66
Mounting	Meter window mounting kit
Material	
Housing	Polyamide (PA)
Ambient conditions	
Service temperature	-40 95 °C (-40 203 °F)
Data for application in co	nnection with
EU-Type Examination Certificate	CML 16 ATEX 3339U
Marking	Ex e IIC Gb
International approvals	
IECEx approval	IECEx CML 16.0114U
Conformity	
Degree of protection	EN 60529
CE marking	0102
General information	
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.

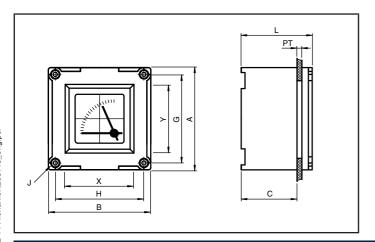
Meter Window Mounting Kits					
Туре	Window including	Enclosure type			
CFP.WB	base mounting kit	L*, GR.CS*			
CFP.WL	cover mounting kit	FXL*.CS, SR.CS*			

Amm	Ammeter Modules - Dimensions											
External dimension [mm]			sion	View window	ving w [mm]	Panel wall thickness [mm]	Mounting holes [mm]		Mass	Enclosure type		
Α	В	С	L	x	Y	PT	G	н	Diam. J	[g]	Enclosure type	
70	70	59	75	54	50	1 6	63	63	3.5	186	LC*, LR* FXL*.CS, SR.CS* GR.CS	

Voltmeters

Voltmeter Modules							
Туре	Rated operating voltage	Image					
CFP.V6	0 10 V						
CFP.V1	0 25 V						
CFP.V2	0 40 V						
CFP.V7	0 50 V						
CFP.V8	0 100 V	- P					
CFP.V9	0 120 V						
CFP.V3	0 150 V						
CFP.V4	0 250 V						
CFP.V5	0 500 V						

Voltmeter Scales							
i	included in module						



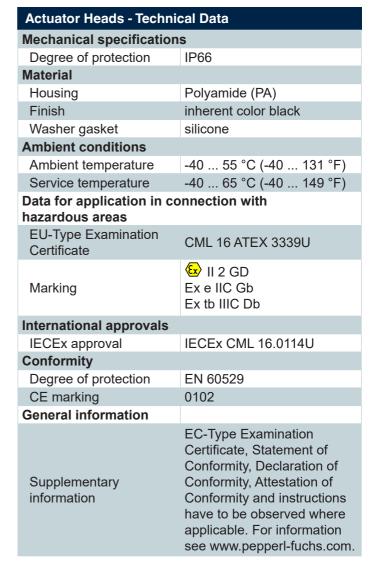
Voltmeter Modules - Tec	hnical Data							
Electrical specifications								
Operating voltage	500 V AC							
Accuracy class	1.5							
Terminal capacity	2.5 mm ²							
Terminal torque	0.8 Nm							
Mechanical specification	าร							
Degree of protection	IP66							
Mounting	Meter window mounting kit							
Material								
Housing	Polyamide (PA)							
Ambient conditions								
Service temperature	-40 95 °C (-40 203 °F)							
Data for application in chazardous areas	onnection with							
EU-Type Examination Certificate	CML 16 ATEX 3339U							
Marking	Ex e IIC Gb							
International approvals								
IECEx approval	IECEx CML 16.0114U							
Conformity								
Degree of protection	EN 60529							
CE marking	0102							
General information								
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.							

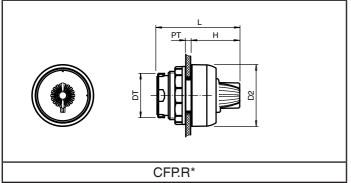
Meter Window Mounting Kits								
Туре	Window including	Enclosure type						
CFP.WB	base mounting kit	L*, GR.CS*						
CFP.WL	cover mounting kit	FXL*.CS, SR. CS*						

Voltn	Voltmeter Modules - Dimensions											
Exte	ernal c [m	limens m]	sion		ving w [mm]	Panel wall thickness [mm]	Mounting holes [mm]			Mass	Enclosure type	
A	В	С	L	x	Y	PT	G	н	Diam. J	[g]	Enclosure type	
70	70	59	75	54	50	1 6	63	63	3.5	186	LC*, LR* FXL*.CS, SR.CS* GR.CS*	

Potentiometers

Potentiometer Actuator Heads								
Туре	Enclosure type	Labeling	Image					
CFP.R2	GR.CS*	0 10						

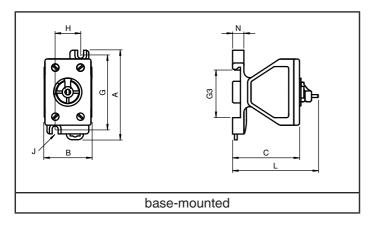




Potentiometer Actuator Heads - Dimensions									
Actuator head diameter [mm]	Panel wall thickness [mm]	Diameter thru-hole [mm]	Length outside enclosure [mm]	Total length [mm]	Mass [g]	Mounting			
D2	PT	DT	Н	L					
39	1 6	30.6	30.5	50.5	27	use with base-mounted and cover-mounted potentiometer modules			

Potentiometers

Potentiometer Modules									
Туре	Mounting	Range [kΩ]	Image						
CFP.3	base-mounted	0 0.5							
CFP.1	base-mounted	0 1							
CFP.2	base-mounted	02							
CFP.5	base-mounted	0 5							
CFP.0	base-mounted	0 10							



Potentiometer Modules	- Technical Data			
Electrical specifications				
Operating voltage	200 V max.			
Power consumption	0.1 W max.			
Terminal capacity	2.5 mm ²			
Terminal torque	0.8 Nm			
Mechanical specification	ns			
Degree of protection	IP20			
Material				
Housing	Polyamide (PA)			
Ambient conditions				
Service temperature	-55 90 °C (-67 194 °F)			
Data for application in c hazardous areas	onnection with			
EU-Type Examination Certificate	CML 16 ATEX 3339U			
Marking	Ex de IIC Gb			
International approvals				
IECEx approval	IECEx CML 16.0114U			
Conformity				
Degree of protection	EN 60529			
CE marking	0575			
General information				
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information			

Potentiometer Modules - Dimensions											
Mounting	Exte	ernal c [m	dimens m]	sion	Mounting holes [mm]			Mounting brackets [mm]	DIN rail receptacle [mm]	Mass	Enclosure
	A	В	С	L	G	н	Diam. J	J N	G3	[g]	type
base-mounted	63	34	50	60	52	18	4.2	8	35.6	69	GR.CS* SR.CS*

see www.pepperl-fuchs.com.

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Operating Elements Accessories

Accessory										
Туре	Description	Image								
CFP.BK	Blanking plug	EX								
CFP.ZT	Extra small label holder with printed label as per specification									
CFP.ZS	Small label holder with printed label as per specification									
CFP.ZL	Large label holder with printed label as per specification	0								
CFP.ZEB	Emergency stop label, yellow, round	0								
CFP. ZEB.V2	Emergency stop label, yellow, round, engraved NOT HALT EMERGENCY STOP	MOT HALL								
CFP.TP	Locknut spanner, plastic									

Accessory		
Туре	Description	Image
CFP.ZB CFP.ZBR (1) (8)	Protective flap for small actuators, plastic, padlockable	
CFP.ZJ CFP.ZJR (1) (8)	Protective pushbutton flap with continuous operation, plastic, padlockable	
CFP.ZH (3)	Protective flap for double pushbutton, stainless steel, padlockable	
CFP.ZA CFP.ZAR (4) (8) (9)	Protective flap, plastic	
CFP.ZP CFP.ZPR (5) (8)	Emergency stop shroud, plastic, padlockable, supplied with padlock and 2 keys	
CFP.ZDT (6) (9)	Protective flap, stainless steel	
CFP.ZCT (7)	Protective flap, stainless steel, padlockable	

- (1) CFP.ZB* are designed for use with CFP.P* pushbuttons, CFP.I* illuminated pushbuttons, CFP.N* small switches, CFP.R* potentiometer actuators
- (2) CFP.ZJ* are designed for use with CFP.P* pushbuttons
- (3) CFP.ZH is designed for use with CFP.D* double pushbuttons
- (4) CFP.ZA* are designed for use with CFP.S* large switches, CFP.E* emergency stops
- (5) CFP.ZP* are designed for use with CFP.E4 emergency stop buttons, the shroud can either be used without the bar to avoid accidental operation or with the bar to padlock in the operated position
- (6) CFP.ZDT is designed for use with both CFP.E4 and CFP.E5 emergency stop buttons
- (7) CFP.ZCT is designed for use with both CFP.E4 and CFP.E5 emergency stop buttons. The shroud is used to padlock the emergency stop in the operated position and when not in use, the flap should be left open
- (8) Accessories that have two options, use a R at the end of the typecode for use with rail mounted contact blocks and those without R are used for cover mounted contact blocks only
- (9) Shrouds and flaps potentially prevent free and unimpaired access to an emergency stop button. These products may therefore only be used in applications where their use has been assessed and not found to cause unacceptable risk to health and safety of persons or damage to the protected machinery.