

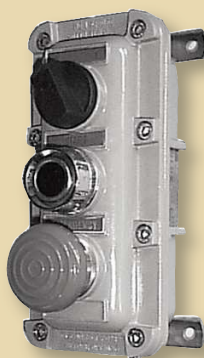
LOCAL CONTROL STATIONS

series
EFD

Protection	Gas	Zone	1-2	II2G	Ex d IIC or IIB+H ₂ T6÷T4 Gb
	Dusts	Zone	21-22	II2D	Ex tb IIIC T85°C÷T135°C Db

Grade of Protection	IP66
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Amb. Temp.	Standard	Extended	-20°C	+40°C
			-50°C	+80°C



Entries Threading	NPT
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Material	Aluminum light alloy
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Painting	External epoxy RAL7000
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Standards and Certificates

Directive 2014/34/EU (ATEX)

EN 60079-0 • EN 60079-1 • EN 60079-31

BVI 15 ATEX 0020

IEC 60079-0 • IEC 60079-1 • IEC 60079-31

IECEx EPS 14.0104

- To be used either as Pushbutton or as Local Control Station.
- Fully configurable through a huge variety of COELBO elements.
- External screws in Stainless Steel.

Options	- Push button protection in silicon rubber, colors: white, red, black.	- Full execution in stainless steel AISI 316L (including the external fittings) see page I11.
	- Cable entries Isometric M25x1,5 (or M32x1,5 for EFD 4 only) (M).	

Contact elements: Technical data:

- Nominal current : 10 A
- Nominal Isolation Voltage : 660 V
- Nominal pulse Voltage : 6 kV
- Short circuit protection Ue<500 Vac : Cartridge Fuse 10 A
- Terminals ID : according to IEC/EN 60947-1
- Screw type joining terminals with captive clamp
- Max wires section: : 2x2,5 mm²
- Self cleaning contacts : EN01(NC) EN10(NA)
- Working cycles: :1800 operations / hr (max)

	AC (AC15)			DC (DC13)		
	24	240	400	24	125	250
Voltage (V)	24	240	400	24	125	250
Current (A)	10	6	4	2.8	0.55	0.27

NOTES

Installation and maintenance instructions shall be carefully read

Local Control Station EFD 1 and EFD 2 only belong to group IIC while models EFD 3 ed EFD 4 belong to group IIB+H₂.

The combinations of the various elements on the local control stations shall be compatible with the dimensions and the characteristics of the selected elements .

The rated voltage of the signal lamps shall be at least 20% higher than the line voltage.

(*) It is suggested the use of LED lamps only.

(*) On request the control may be provided with a potentiometer.

Electrical Data

Manipulators

- Nominal AC Voltage 400 V
- Nominal Current 10 A

Signalling Lamps

- Max Nominal AC Voltage 260 V
- Socket E 14

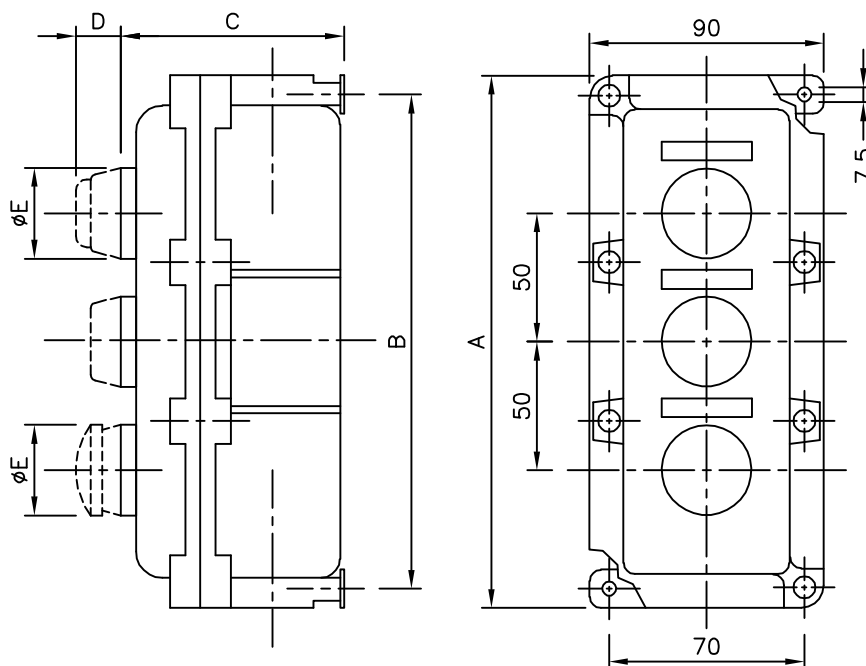
Resistances

- Max Voltage 230 V AC/DC
- Max Power 5 W

Command/signaling unit type	Temperature class		Max ambient temperature range
	Gas	Dust	
Halogen lamps (°)	T6	T85°C	-50°C++50°C
	T5	T100°C	-50°C++65°C
	T4	T135°C	-50°C++80°C
LED lamps (°)	T6	T85°C	-50°C++60°C
	T5	T100°C	-50°C++80°C
Only with command units	T6	T85°C	-50°C++80°C

LOCAL CONTROL STATIONS

series
EFD



Enclosure	Elements	Cable Entries		A	B	C	Enclosure weight (g)
		\varnothing	n				
EFD1	1	3/4"	2	106	86	87	480
EFD2	2	3/4"	2	156	136	87	685
EFD3	3	3/4"	2	206	186	87	890
EFD4	4	1"	2	256	236	82	1520

Element	Symbol	Dimensions (mm)		Contacts	Weight (g)
		D	$\varnothing E$		
START pushbutton	1	20	38	1NO	180
STOP pushbutton	0	20	38	1NC	180
Mushroom type push button with spring return	5	32	50	1NO+1NC	220
Key switch 1-2 poles (pos. 0-1)	7/1-7/2	46	38	-	400
Two position key changeover switch 1-2 poles (pos. 1-2)	7/1D - 7/2D	46	38	-	400
Three position key changeover switch 1-2 poles (pos. 1-0-2)	7/1C - 7/2C	46	38	-	400
Mushroom type push button with locking	8	32	50	1NO+1NC	220
Mushroom type push button with rotary locking	8R	46	50	1NO+1NC	320
Mushroom type push button with locking and keylock	8K	46	50	1NO+1NC	300
Pilot light (E14)	R-B-V-G-A	38	38	-	170
Switch 1-2 poles (pos. 0-1)	I1-I2	21	45	-	300
Two way changeover switch 1-2 poles (pos. 1-2)	D1-D2	21	45	-	300
Three way changeover switch 1-2 poles (pos. 1-0-2)	C1-C2	21	45	-	300
Potentiometer control (single turn) (*)	P	25	45	-	-
Potentiometer control (multiturn) (*)	PM	25	45	-	-

Example: EFD 4 108RR

Order Coding

Type

EFD

Enclosure Size

1 = 1 element
2 = 2 elements
3 = 3 elements
4 = 4 elements

Code of elements to be used (max. 4)
see table

1 = START pushbutton
0 = STOP pushbutton
8R = Mushroom type push button with rotary locking
R = RED pilot light

Threading

N = NPT (std.)
M = Metric