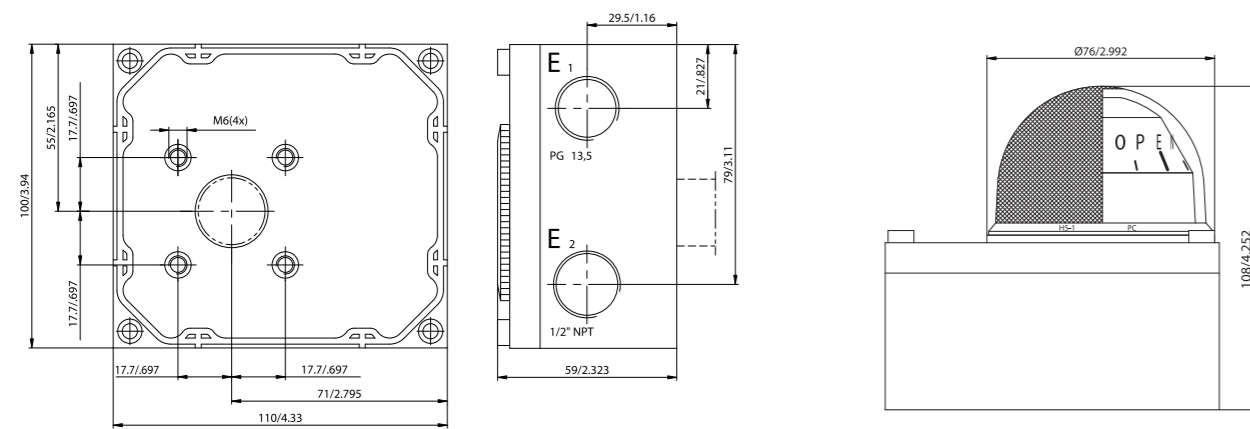


F5 Feedback unit

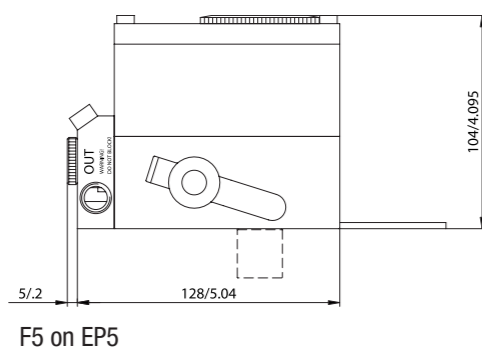
Product Information

Dimensions drawings (mm)

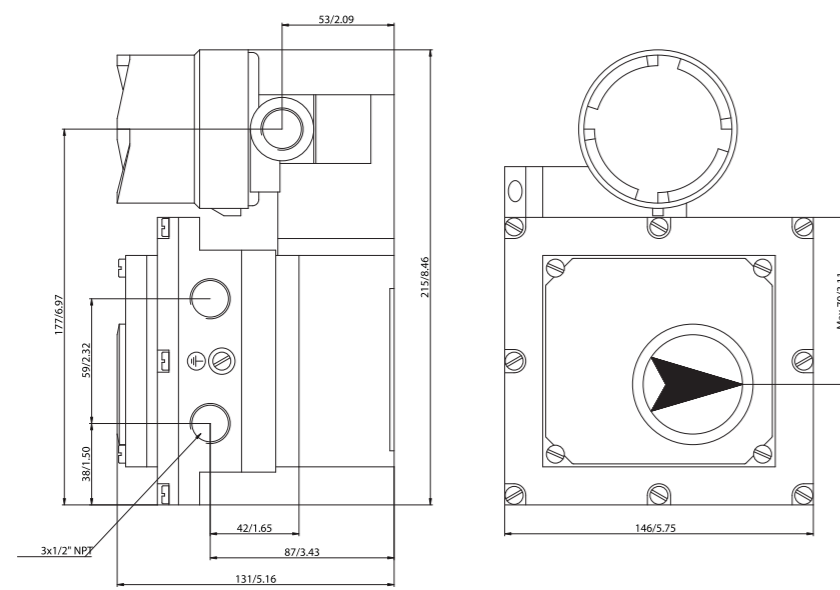


F5

F5 with Dome H5



F5 on EP5



F5EX on EP5EX



p/n: FCD PMENBR0005-02



Hazardous Locations

Intrinsically safe:
ATEX II 1 G, EEx ia IIC T4 LClE 95.06 IIB CSA, FM Class 1, Div 1, Group C, D T3C ATEX

Explosion proof:
ATEX II 1 G, EEx d IIB+H2, T4-T6 LClE 97.D6140 IIB CSA, FM Div 1, Class 1, 2 & 3 Group BCDEFG T4-T6, ATEX

Rait Grafika AB Dnr: 20971

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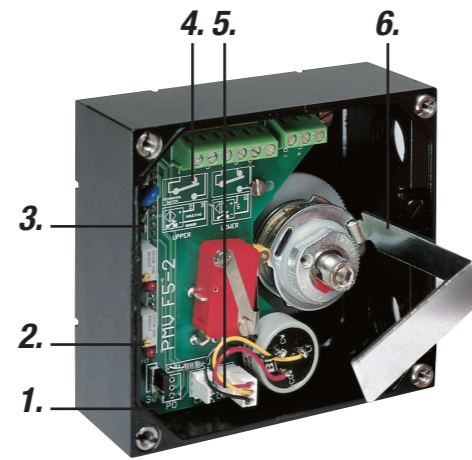
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www.pmv.nu



1. Jumper for field selection of 90, 60, 45 and 30 deg, operation for 4–20 mA position transmitter.
2. LEDs indicate 4–20 mA output.
3. Test outlet for 4–20 mA position transmitter.
4. Info printed on the PC board.
5. Field selectable direction of 4–20 mA of output signal, direct or reverse.
6. Easy to set cams with no fixed increments for true 100% resolution.



Technical data

General	
Conduit entries	2x1/2 NPT or 2xPG 13.5 (M20)
Housing material	Die cast aluminum
Surface treatment	ED painting
Weight	0,7 kg (lbs 1.5) Ex proof = 2,1 kg (lbs 4.6)
Mounting	Direct on P5/EP5 and VDI/VDE 3845
Fasteners	Stainless A2/A4
Terminals	2,5 mm ² (AWG 14) Screw terminals
Enclosure	IP66, NEMA 4
Temp*	-40°C to +85°C (-40°F to +185°F)

Switches, mechanical	
Type	Mechanical SPDT V3
Rating	6/2,5A 250 V AC

NAMUR sensors	
Type	P+F NJ2 V3N
Load Current	≤ 1mA ≥ 3 mA
Voltage range	8 V DC
Hysteresis	0,2%
Temp	-25°C to +85°C (-4°F to +185°F)

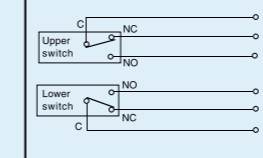
Proximity switches	
Contact rating	2 W or 2 VA @ 30 V DC/V AC, 0.1 A
Maximum operating time	0.5 milliseconds
Breakdown voltage	200 V DC
Contact resistance	0.2 Ohms
Switch type	SPDT hermetically sealed in one unit
Mechanical and electrical life	> 10 million operations

Potentiometer	
Output	5kΩ (4kΩ at 90°)
Elements	Conductive plastic
Power rating at 70°	1 W
Linearity	1%
Resolution	Essentially infinite

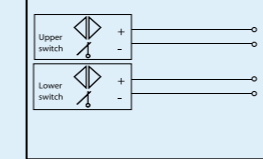
4–20 mA position transmitter	
Power supply	Max. 28 V DC
Output signal	4–20 mA
LED indication at 4 mA	±1%
LED indication at 20 mA	±1%
Resolution	Infinite
Minimum rotation travel	30°
Maximum rotation travel	90° (270° option)
Linearity	<1% of full scale
Hysteresis	<0,5% of full scale
Output current limit	24 mA DC
Load impedance	800Ω at 24 V DC

* Not NAMUR sensors

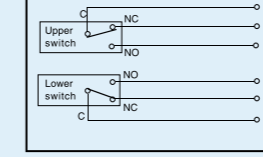
Mechanical switches



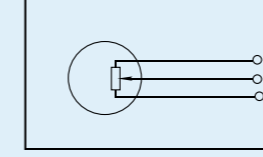
Namur sensors



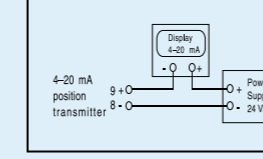
Proximity switches



Potentiometer



4–20 mA position transmitter



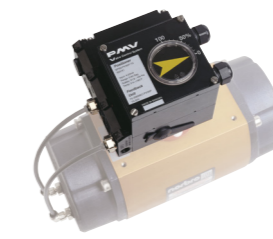
Modular



F5 mounted on actuator for on/off applications



F5 mounted on positioner P5



F5 mounted on positioner EP5

F5 Series Coding

Model (for installation on P5/EP5 only)
 F5G F5 with PG 13.5 connections
 F5N F5 with NPT 1/2" connections
Surface treatment
 U Epoxy, ED
 M Tuftram
Switches
 MEC 2 x SPDT switches
 NAM 2 x P+F Namur Sensors
 PXY 2 x Proximity switches
Feedback
 XXX None
 POT Potentiometer 5 kOhm
 P1K Potentiometer 1 kOhm
 P18 Potentiometer 180 deg
 420 4–20 mA transmitter
 T18 4–20 mA transmitter, 180 deg
 T27 4–20 mA transmitter, 270 deg
Spindle
 00 Drive coupling for P5/EP5
Seals
 Z Nitrile, NBR
Model
 F5IS F5 Intrinsically safe
 F5EX F5 Explosion proof
Electrical connections
 G PG13.5, Not F5EX
 Z 1/2" NPT
Surface treatment
 U Epoxy, ED
 M Tuftram
Switches
 MEC 2 x SPDT switches
 NAM 2 x P+F Namur Sensors
 PXY 2 x Proximity switches
Feedback
 XXX None
 POT Potentiometer 5 kOhm
 P1K Potentiometer 1 kOhm
 P18 Potentiometer 180 deg
 420 4–20 mA transmitter
 T18 4–20 mA transmitter, 180 deg
 T27 4–20 mA transmitter, 270 deg
Spindle
 00 Drive coupling for P5/EP5
 23 01 to 39, see dwg SPNDLS_P5
Frontcover, indicator
 PV9DA 90 deg, direct arrow indicator
 PV3RH 30 deg, reverse, Dome indicator
Seals
 Z Nitrile, NBR
Example
 F5ISNU-MEC420-00-PV9DA-Z

(*For 30, 45, 60 deg rotation, change PV9 to PV3, PV4 or PV6 D=direct, R=reverse, A=arrow indicator, B=blind, H=dome)

F5 Feedback Unit

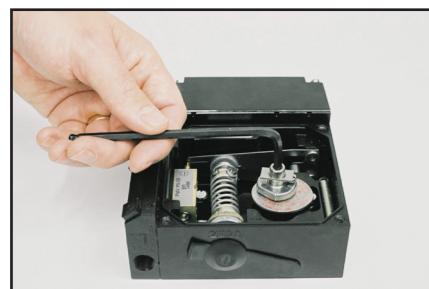
F5/F5-EX

- Mounts on P5/EP5 without additional mounting bracket.
- Bright visible, flat or dome position indicator.
- Easy to set stepless cams – 100% resolution.
- Switches, mechanical or proximity, P+F Namur sensors.
- Potentiometer or 4–20 mA position transmitter.
- Sturdy, reliable and simple design.
- Explosion proof or intrinsically safe enclosure.
- ATEX, CSA and FM approvals.

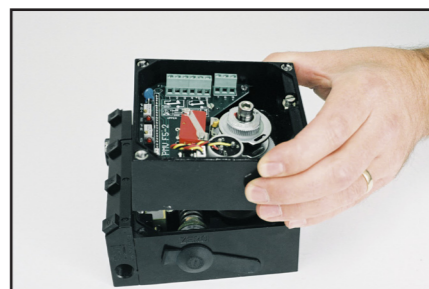


Explosion proof

Easy to install



Install coupling on P5/EP5



Place F5 unit on top, tighten screws



Install indicator and cover