

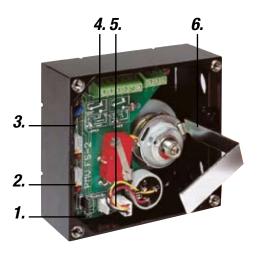
F5 Feedback unit

Product Information





- 1. Jumper for field selection of 90, 60, 45 and 30 deg, operation for 4–20 mA position transmitter.
- 2. LEDs indicate 4 and 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 ouput signal, direct or reverse.
- **6**. Easy to set cams with no fixed increments for true 100% resolution.



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





Easy to install



Install coupling



Place F5 unit on top, tighten screws



Install indicator and cover



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 mm² (AWG 14) Screw terminals
Enclosure	IP66, NEMA 4
Temp*	-40°C to 85°C (-40°F to 185°F)

Switches,mechanical

Туре	Mechanical SPDT V3
Rating	6/2,5A 250 V AC

NAMUR sensors

Туре	P+F NJ2 V3N
Load Current	$\leq 1 \text{mA} \geq 3 \text{ mA}$
Voltage range	5–25 V DC
Hysteresis	0,2%
Temp	-25°C to 85°C (-4°F to 185°F)

Proximity switches

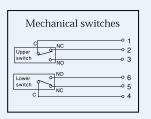
Contact rating	2 W or 2 VA @ 30 V DC/V AC, 0.1 A
Maximum operating time	0.5 milliseconds
Breakdown voltage	200 V DC
Contact resistance	0.2 Ohms
Switch type	SPDT hermetically sealed in one unit
Mechanical and electrical life	> 10 million operations

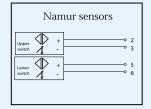
Potentiometer

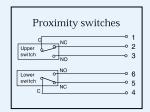
Output	5kΩ (4kΩ at 90°)
Elements	Conductive plastic
Power rating at 70°	1 W
Linearity	1%
Resolution	Essentially infinite

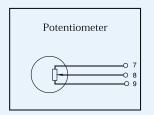
4-20 mA position transmitter

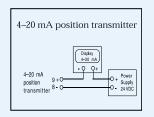
4-20 ma position transmi	tter
Power supply	Max. 28 V DC
Output signal	4–20 mA
LED indication at 4 mA	±1%
LED indication at 20 mA	±1%
Resolution	Infinite
Minimum rotation travel	30°
Maximum rotation travel	90° (270° option)
Linearity	<1% of full scale
Hysteresis	<0,5% of full scale
Output current limit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











* Not NAMUR sensors





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 P5 with PG 13.5 connections
F5N P5 with NPT 1/2" connections
Surface treatment
U Epoxy, ED
M Tufram
Switches
MEC 2 x SPDT switches
NAM 2 x P + F Namur Sensors
PXY 2 x Proximity switches
Feedback

Feedback

k None Potentiometer 5 kOhmt Potentiometer 1 kOhm Potentiometer 180 deg 4–20 mA transmitter 4-20 mA transmitter, 270 deg XXX POT P1K P18 420 T18 T27 **Spindle** 00 **Seals** N

Drive coupling for P5/EP5

Nitrile, NBR

Model

Surface treatment U Epoxy, ED M Tufram

2 x SPDT switches 2 x P+F Namur Sensors 2 x Proximity switches MFC PXY

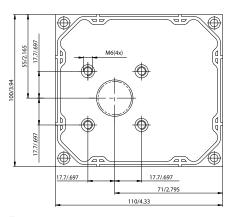
PXY 2 x Pr Feedback XXX None POT Potent P1K Potent P18 Potent 420 4–20 T18 4-20 t T27 4-20 t Potentiometer 5 kOhmt
Potentiometer 1 kOhm
Potentiometer 180 deg
4–20 mA transmitter
4–20 mA transmitter, 180 deg
4-20 mA transmitter, 270 deg

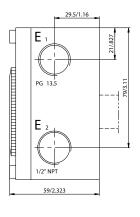
Seals N Nitrile, NBR

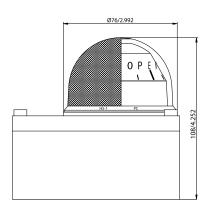
Example F5ISNU-MEC420-00-PV9DA-Z

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

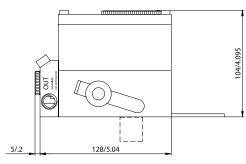
Dimensions drawings(mm)



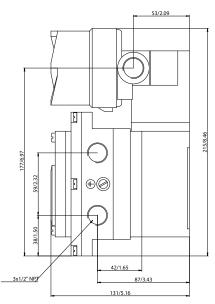




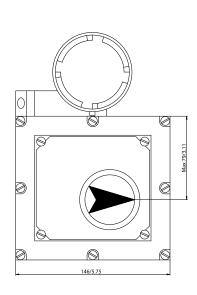
F5 with Dome H5



F5 on EP5









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Hazardous Locations







Intrinsically safe:

ATEX $\langle\!\!\langle x\rangle\!\!\rangle$ II 1 G, EEx ia IIC T4 LCIE 95.D6 IIIX CSA, FM Class 1, Div 1, Group C, D T3C ATEX

ATEX E II 1 G, EEx d IIB+H2, T4-T6 LCIE 97.D6140 IIIX CSA, FM Div 1, Class 1,2 & 3 Group BCDEFG T4-T6, ATEX

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Palmstierna International AB

Korta Gatan 9 SE-171 54 Solna SWEDEN Tel: +46 (0) 8 555 106 00 Fax: +46 (0) 8 555 106 01 E-mail: infopmv@flowserve.com

Flowserve

Sperberweg 16 D-41468 Neuss **GERMANY** Tel: +49 (0) 2131 795 74 80 Fax: +49 (0) 2131 795 74 99 E-mail: pmvgermany@flowserve.com

UK

Flowserve Abex Road Newbury, Berkshire, RG14 5EY Tel: +44 (0) 1635 49 400 Fax: +44 (0) 1635 36 034 E-mail: pmvukinfo@flowserve.com

Flowserve Spa Via Prealpi, 30 20032 Cormano (Milano) ITALY Tel: +39 (0) 2 663 251 Fax: +39 (0) 2 615 18 63 E-mail: infoitaly@flowserve.com

USA, Mexico PMV-USA 1440 Lake Front Circle, Unit 160 The Woodlands, TX 77380 USA

Tel: +1 281 292 7500 Fax: +1 281 292 7760 E-mail: pmvusa@flowserve.com

Canada

Cancoppas Limited 2595 Dunwin Drive, Unit 2 Mississuga, Ont L5L 3N9 CANADA

Tel: +1 905 569 6246 Fax: +1 905 569 6244 E-mail: controls@cancoppas.com

Asia Pacific Headquarters Flowserve Pte Ltd.

No. 12 Tuas Avenue 20 REPUBLIC OF SINGAPORE 638824 Tel: +65 (0) 687 98900 Fax: +65 (0) 686 24940

South Africa

Flowserve Unit 1, 12 Director Road Spartan Ext. 2 1613 Kempton Park, Gauteng SOUTH AFRICA Tel: +27 (0) 11 397 3150 Fax: +27 (0) 11 397 5300

The Netherlands

Rechtzaad 17 4703 RC Roosendaal THE NETHERLANDS Tel: +31 (0) 30 6771946 Fax: +27 (0) 30 6772471 E-mail: fcbinfo@flowserve.com

China

Flowserve Hanwei Building No. 7 Guanghua Road Chao Yang District 100004 Beijing

Tel: +86 (10) 6561 1900 Fax: +86 (10) 6561 1899