

ELECTRO PNEUMATIC VALVE POSITIONER MODEL - EPR



FEATURES AND BENEFITS

- Easy and quick auto-calibration.
- Detecting RA (reverse acting) or DA (direct acting) automatically regardless of wrong air connections.
- Available to use for single or double acting without any special adjustments.
- High Resistance to Vibration.
- Aluminium Housing with corrosion resistant coating.
- Compact design allowing to be installed on small actuators .
- Wide operating temperature range -20°C to 70°C .
- Low air consumption.
- Supporting a NAMUR mounting pattern VDI/VDE 3845 (IEC 60534-6-2) and providing a multi-size mounting bracket for rotary valves.



EPR ROTARY TYPE	SINGLE-DOUBLE ACTING
Input Signal	4-20 mA DC
Input Resistance	$235 \pm 15 \Omega$
Air Supply Pressure	MAX 7.0 Bar filtered Instrumentation Air
Pneumatic Connections	$\frac{1}{4}$ "NPT
Electrical Connections	$\frac{1}{2}$ "NPT
Protection Class	ATEX Ex md, B T5 EX md, B T6 EX md, C T6 Exia, B T6, Ex dmb 11B + H ₂ T6, Ex dmb 11C T6/T5, Ex ia 11C T6/IP66
Operating Temperature	$-20^{\circ}\text{C} \dots +70^{\circ}\text{C}$
Linearity	Within $\pm 1.0 \%$ F.S
Hysteresis	Within $\pm 1.0 \%$ F.S
Sensitivity	Within $\pm 0.2 \%$ F.S
Repeatability	Within $\pm 0.5 \%$ F.S
Air Consumption	5 LPM
Flow Capacity	8 LPM
Body Material	Aluminium Diecast
Weight	2.3 Kg

OPTIONS

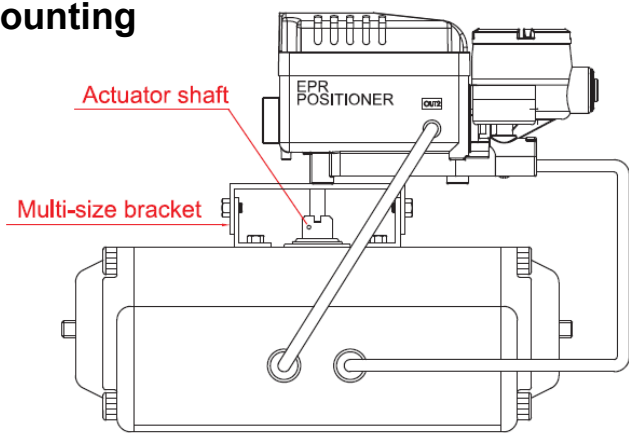
- Output position transmitter (4 - 20 mA)
- 2 x Alarm limit or micro switch (SPDT)
- Explosion proof type (IECEX / ATEX / KC Ex ia IIC T5)
- Stainless Steel Body



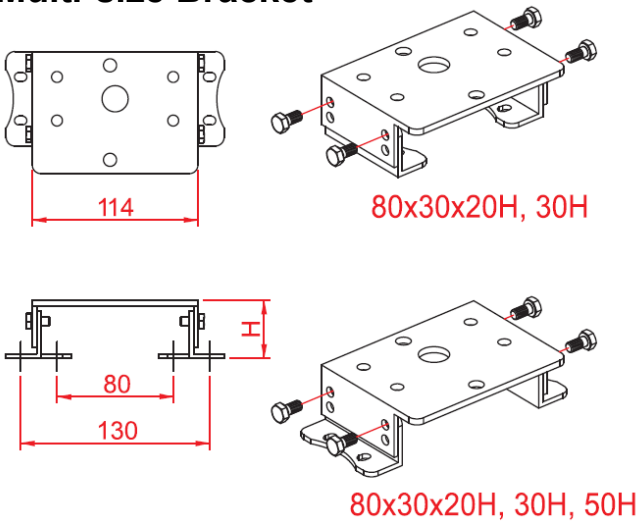
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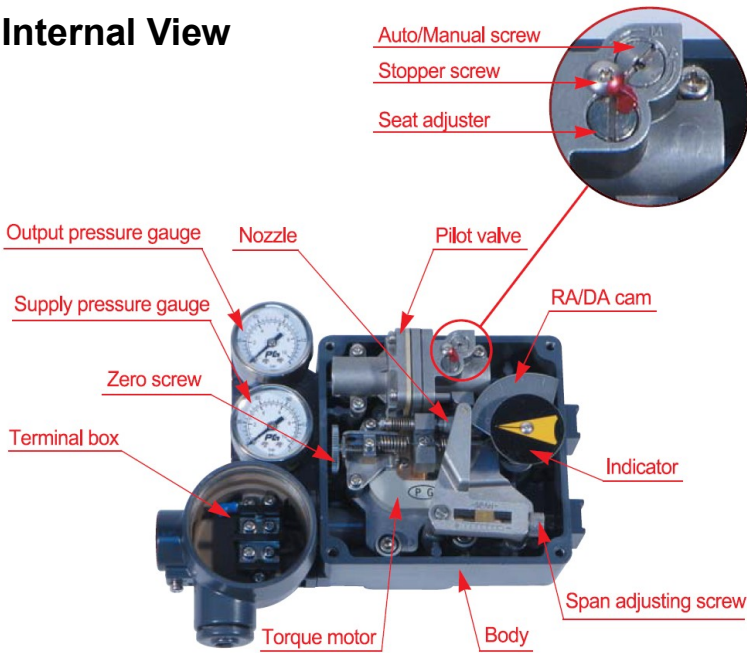
Mounting



Multi-size Bracket



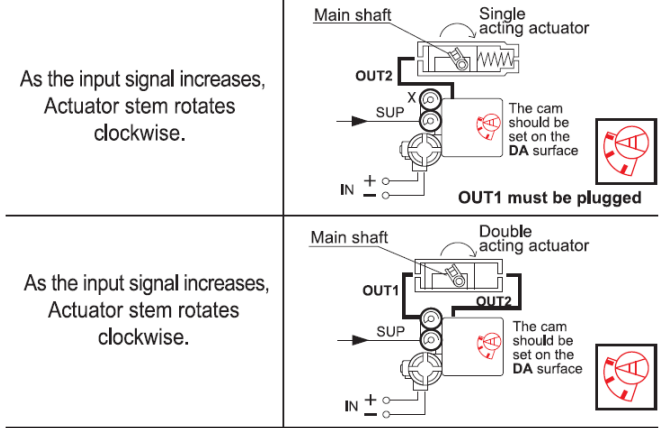
Internal View



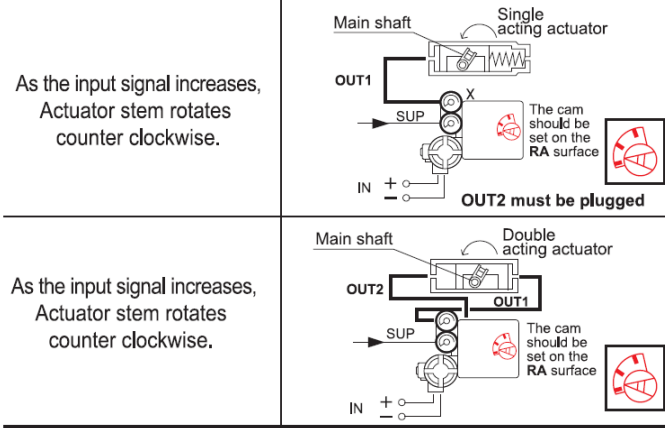
Type	H
80 x 30 x 20H	41
80 x 30 x 30H	51
130 x 30 x 20H	41
130 x 30 x 30H	51
130x 30 x 50H	71

Air Connections

Reverse Acting (RA)



Direct Acting (DA)

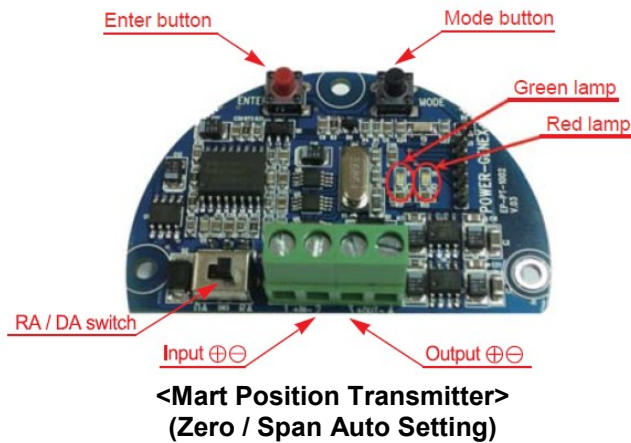
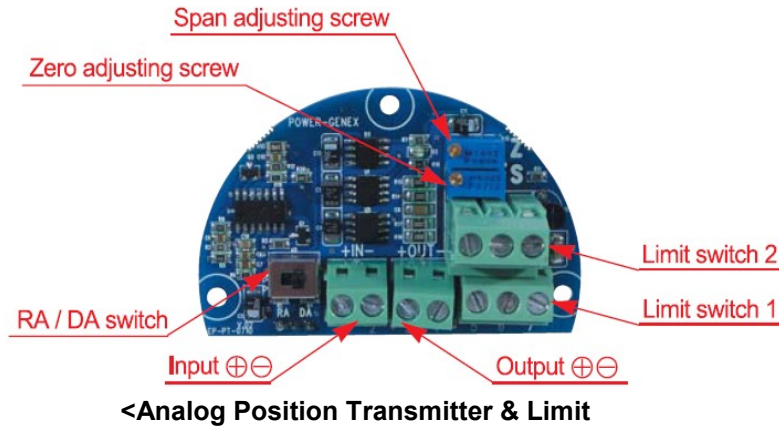


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Position Transmitter Options (Built In Type)

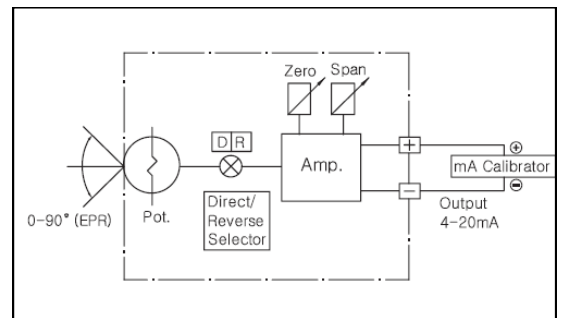
1. Board View



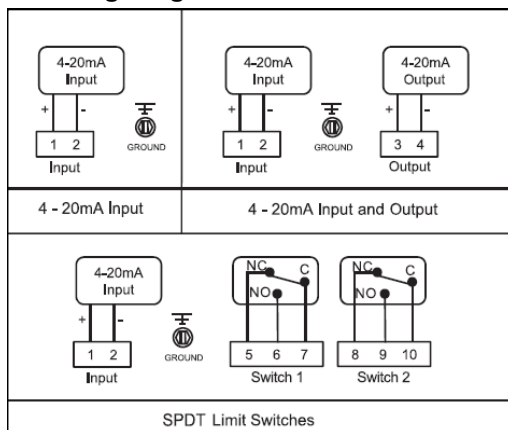
2. Position Transmitter (4-20mA output signal) A. Specifications

Power Supply Rating	5.5 - 30 VDC Loop Power
Power Supply	24 VDC
Output Signal	4 - 20 mA. 2-wire
Operating Temperature	-20°C ~ 85°C
Load Impedance	0 ~ 600 ohms
Max. Output	30 mA DC
Linearity	± 1.0%
Hysteresis	1.0 % of full scale
Repeatability	± 0.5 % of full scale
Adjustment	Zero and Span in terminal Box

B. With mA calibrator



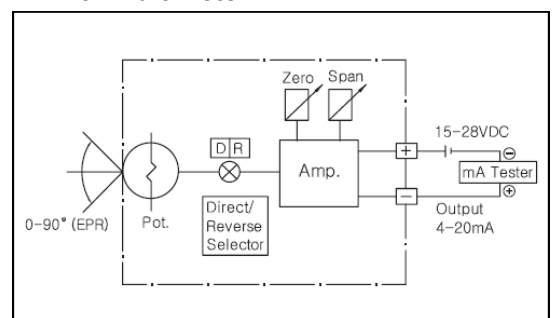
3. Wiring Diagram



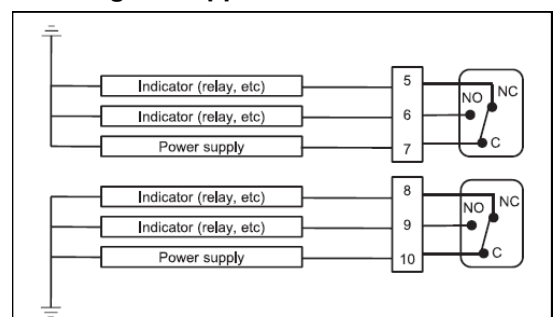
4. SPDT Limit Switches A. Specifications

Contacts	SPDT Form C
AC Rating	16 A 1/2 HP 125/250 VAC
DC Rating	0.6 A 125 VDC / 0.3 A 250 DC
Adjustment	Cams with set screw

C. With multimeter



B. Wiring and Application



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CHALLENGER
VALVES AND ACTUATORS

Dimensions

