

ELECTRO-PNEUMATIC POSITIONER EP3



The electro-pneumatic positioner EP3 is used to control single-acting and double-acting pneumatic actuators and is compatible with all EBRO valves for on/off and control applications.

FEATURES

Power supply:	24 VDC \pm 10 %
Communication interface:	IO-Link, Bluetooth, SIO, analog
SIO input signals:	3 x binary
SIO output signals:	3 x binary (normally open / close), configurable (close, open, fault/intermediate position)
Analogue input:	2x 4-20 mA, 1x 0-10 V
Analogue output:	1x 4-20 mA / 0-10 V
Position detection:	90° contactless / wear-free
Connection:	terminal connection or M12 A-coded plug connector
Sensors:	Position analogue, acceleration, temperature
Safety position:	Single acting: closing, or opening Double acting: holding, closing, or opening
HMI:	RGB LED for status indication tactile operating elements in the device configuration via IO-Link
Temperature range:	Standard -20 °C to +60 °C
Explosion protection:	On request: ATEX 3GD and ATEX 2GD

APPLICATIONS

- Positioning of butterfly valves and knife gate valves
- Intermediate positions for open/close applications
- Eco mode for saving compressed air in On/Off applications

GENERAL NOTES

- Conventional control via standard signals or IO-Link
- Individual parameterization via IO-Link
- Five process inputs (2x analog 4-20 mA/0-10V and/or 3x binary inputs) for connecting external sensors can be connected queried via IO-Link
- Diagnostics with additional sensors
- Freely programmable status LEDs
- Bluetooth interface as an interface to IoT applications



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TECHNICAL DATA

Body	Aluminum (Powder-coated)
Control	Tactile control elements/ IO-Link
Protection class	IP 65, optional IP67
Temperature range	-20°C bis +60°C
Mechanical connection	VDI/VDE 3845, direct build-on
Corrosion protection	CS3 or optional CS5M
Connection type	terminal connection, or optional M12 A-coded plug connector

ELECTRICAL DATA

Power supply	24 VDC \pm 10%
Power consumption	< 4,8 W (conventional, Class A IO-Link) > 4,8 W (conventional, Class B IO-Link)
Sensor type Position detection	Angle sensor, Hall-Technology
Analogue input/setpoint specification	4-20 mA / 0-10 V
Additional analogue inputs	4-20 mA / 0-10 V
Analogue output	4-20 mA / 0-10 V
Digital input signals	3
Digital output signals	3
Polarity reversal protection	Yes (Power supply)

PNEUMATIC DATA

Control medium	Neutral gases, air
Air quality	ISO 8573-1:2010: 7-4-4
Supply pressure	3-8 bar
Control air connection	G1/4"
Air flow rate	1250 NI/min, adjustable

CERTIFICATIONS / CONFORMITY

IO-Link Transmission type	COM3 (230,4 kBaud)
IO-Link Revision	1.1.3
IO-Link Process cycle time	min. 10 ms
IO-Link Class	Class A / Class B (depending on type)
Conformity	CE, IO-Link
Explosion protection	Optional: ATEX 3GD and ATEX 2GD

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WIRING DIAGRAM

