Digital Positioner 8049-IO1



Compact digital positioner with IO-Link for mounting on pneumatic valves

- IO-Link interface (V1.1.3)
- Direct "top-mounted" attachment to the valve drive. This means that no parts of the stroke return are accessible from the outside.
- Large stroke range 0.12 1.10", optionally up to 1.97".
- Reverse hysteresis of up to 0.2% possible, standard 0.4%
- Configuration adjustment through self-adaption
- Configuration and diagnostic functions via IO-Linke or via "Device-Config" software
- Low vibration sensitivity
- Protection class IP 65
- Also for rotary actuators
- Low air consumption in the regulated state



Technical data

Nominal stroke	0.12 - 1.10" (optional up to 1.97")
Ambient temperature	-14 °F up to + 167 °F
Control Signal	IO-Link
IO-Link Interface	V 1.1.3
IO-Link Porttype	Class A
Current	max. 500 mA
Supply voltage	24 V DC (18-30 V)
Adjustment of stroke and zero point	self-adjustment
configuration	IO-Link or Software "DeviceConfig"
auxiliary energy, pneumatic	max. 87 psi
Air flow capacitiy	40 NI/min
Consumption of auxiliary energy in the	< 0,06 NI/min
controlled state	
Leakage	< 0,01 NI/min
Air quality according ISO 8573-1:	
max. particle size and density:	Class 5
oil content	Class 4
pressure dew point	Class 3
	min. 20 K (36 °F) under ambient temperature
Actuation gas	compressed air or non flammable gases (nitrogen, CO2,)
Mounting to control valve	standardized mounting kits (also with optical position indicator)
Pressure supply port	NPT 1/8"
Protection class acc. DIN 40050	IP 65
* -1 70	

* at 73 psi pilot pressure

Functional description

With its integrated IO-Link interface, the 8049-IO1 positioner offers a solution for controlling, parameterizing and diagnosing via its higher-level process control system. Based on the proven 8049-4 positioner (version 6), IO-Link is not only used to specify the setpoint, but also to set the positioners parameters, e.g. positioner hysteresis, tight shut-off function etc., and read out diagnostic or maintenance data, e.g. number of switching cycles, operating hours, valve travel, etc. The maximum data rate is 230.4 kBit/s, the cycle time is exceptionally fast at 1.1 ms.

In addition, the configuration of the 8049-IO1 is still possible by means of the PC software "DeviceConfig".

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Materials

	standard version	version "ground plate in stainless steel"	version "completely stainless steel"
positioner housing	Vestamid (electroconductive)	Vestamid (electroconductive)	stainless steel
ground plate	Aluminium, KTL-coated	stainless steel	stainless steel

Ordering number system

	ote only	y if required
8049/ - <td></td> <td></td>		
digital positioner 8049-IO-Link IO1		
For actuator		
single acting		
Air delivery		
standard S		
high H		
Body		
aluminium / plastic 0		
stainless steel ground plate		
Electro-pneumatic connection		
plug connection M12x1, 5-pin 2		
Pneumatic connection		
G 1/8" 0		
NPT 1/8" 1		
Position measuring		
linear potentiometer without sensing pin 0		
linear potentiometer with standard sensing pin (L=3,92")		
linear potentiometer with curtated sensing pin (L=3,72") G		
rotary potentiometer for semi-rotary drive 2 EMV-galvanic separating module for exterior path sensor 3		
Optical indicator		
without indicator 0 indicator disc for sensing pin in PA 1		
indicator disc for sensing pin in metal 2		
rotation angle indicator 3		
Auxiliary module		
without auxiliary module 0		
Accessories without accessories	0	
	1	
	2	
Optical position indicator for rotating actuators		
special design (quote only if required)	S	
positioner montage (only for the manufacturer)	М	
Settings		
standard		-
settings on customer request		1
Special design		
without		-

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Dimensions

For linear actuators



For quarter turn actuators

