Pressure sensor SPAF – Smart IO-Link® communication in a compact and robust IP65 housing



Highlights

- IO-Link® communication
- Compact design
- Degree of protection IP65
- Cost-optimised LED variants available
- Pneumatic connection G1/8 can be retrofitted
- Teach-in using just one button
- Integrated switching cycle counter
- Quick to commission thanks to replicating function

The new pressure sensor SPAF has three different versions for reliably measuring system pressures of non-corrosive gases from -1 ... 10 bar. The measurement data is transmitted via standardised IO-Link® communication or optionally as a binary or analogue signal. This provides you with full transparency and control of your automated production system, whether for monitoring networks, reducing pressure for energy efficiency, testing for leaks or sensing pneumatic objects.

Compact and sturdy
The compact dimensions of the SPAF and a width of just 18.6 mm make it very space-saving; thanks to protection class IP65, it is also suitable for harsh industrial environments.

Smart IO-Link® communication
Installation and maintenance are child's play, since the effort needed for wiring and storing parameters is minimal. Intelligent remote parameterisation and maintenance provide the basis for Industry 4.0 in your machine.

Flexible operation
Selecting PNP or NPN, NO or NC can be easily done using the one-button operation on the sensor or conveniently via IO-Link®. In addition, there are versions for very cost-sensitive automation solutions that have just a simple LED indication instead of a display. The switchable analogue voltage output rounds off the range.

Sophisticated connection options
The pneumatic installation, with push-in fittings QS4 and QS6 and a male thread G1/8, is just as quick as the electrical installation via M8 or M12 plug connectors. This means that, as a special feature, the display can be aligned at a later date using a Torx screwdriver. The design of the sensor also enables in-line measurement in the QS versions.

More information:

Product page
> www.festo.com/catalogue/spaf

Variants (all combinations available)

Display

LED



LCD display



Electrical connection

Plug M8x1



Plug M12x1



Pneumatic connection

Push-in connector QS-4



Push-in connector QS-6



Male thread G1/8



Accessories

Wall bracket



Technical data

Version	V1	B11	P10
Pressure measuring range	0 ... -1 bar	-1 ... 10 bar	0 ... 10 bar
Display	LED, LCD display		
Pneumatic connection	Push-in fitting, QS-4, QS-6, male thread G1/8		
Measurement method	Piezoresistive pressure sensor		
Mounting position	Any		
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4] Inert gases		
Temperature of medium	0 ... 50 °C		
Ambient temperature	0 ... 50 °C		
Degree of protection	IP65		
Accuracy	1.5% FS		
Repetition accuracy	0.3% FS		
Operational voltage range DC	15 ... 30 V		
Switching output	PNP, NPN (switchable)		
Analogue output	0 ... 10 V, 1 ... 5 V (switchable)		
Protocol	IO-Link®		
Mounting method	Mounting clip, threaded mounting		
Electrical connection	Plug M8x1, A-coded; plug M12x1, A-coded		