

Pneumatic Sensor Fittings

The sensor detects the pressure drop when a cylinder reaches the end of its stroke. They produce a **pneumatic or electric output signal** when the pressure drop in the exhaust chamber of the cylinder goes below their back pressure threshold.

Product Advantages

Easy-to-Use	Suited to changes of series: no adjustment to position detectors is necessary
With Pneumatic Output	Totally pneumatic installation 2 possible installations: <ul style="list-style-type: none">• Supplied with permanent pressure (P1): produces a pneumatic signal when the back pressure threshold is reached• Supplied from the control valve-cylinder circuit on the opposite side: no unexpected pneumatic signal (S) can appear during pressurisation due to the actuating pressure which supplies the sensor fitting (P1)
With Electrical Output	Combined electrical and pneumatic installation Installation with continuous electrical supply only (BU) Guarantees an electrical signal when the back pressure threshold is reached



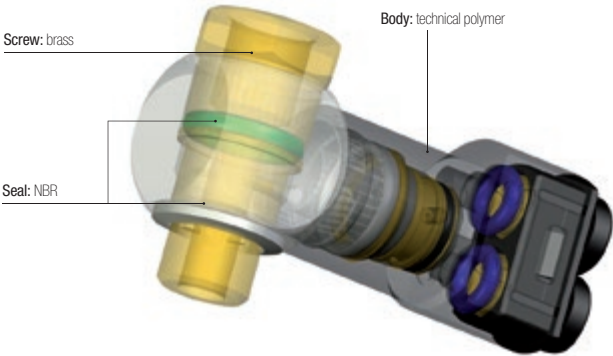
Applications

- Robotics
- Textile
- Semi-Conductors
- Packaging
- Pneumatics

Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	3 to 8 bar
Working Temperature	-15°C to +60°C
Back Pressure	0.85 to 1 bar
Switching Time	Model 7818: 3 ms
Open/Closed Contact	Model 7828: 2A / 0-48 V 2A / 250 V 50 Hz

Component Materials

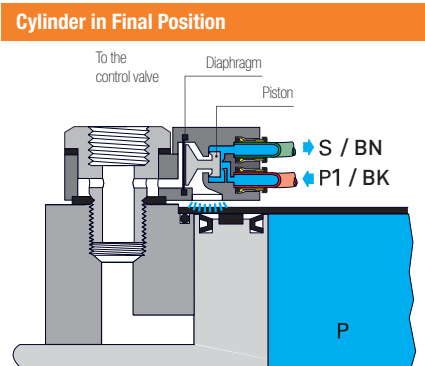
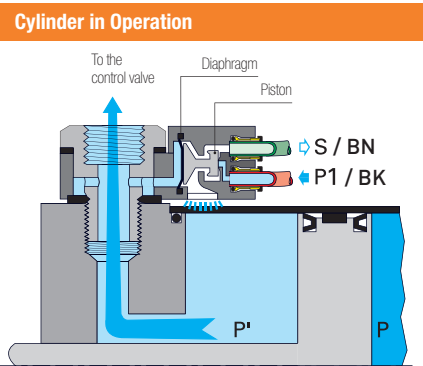
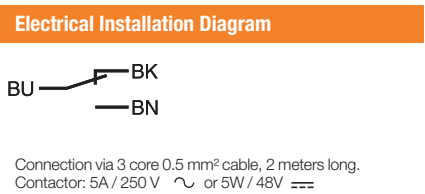
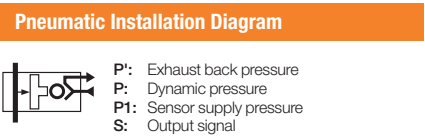


Silicone-free

Regulations

DI: 2002/95/EC (RoHS)
RG: 1907/2006 (REACH)
DI: 97/23/EC (PED)

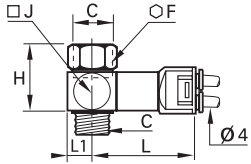
Operation



Pneumatic Sensor Fittings

7818 Pneumatic Sensor Fitting, Male BSPP and Metric Thread

Zamak, NBR, technical polymer, brass

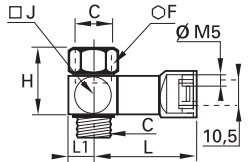


ØD	C	F	H	J	L	L1	Kg
4	M5x0.8	8	16	11	43.5	5.5	0.025
	G1/8	14	23	16	44.5	8	0.043
	G1/4	17	28	19.5	46.5	10	0.061
	G3/8	22	29	23.5	49	12	0.083
	G1/2	27	30	31.5	52.5	16	0.125

* Bolt zinc passivated steel

7818 Pneumatic Sensor, Male/Female BSPP Thread

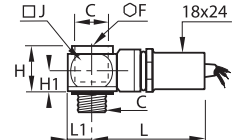
Zamak, NBR, technical polymer, brass



C	F	H	J	L	L1	Kg
G1/8	14	23	16	40.5	8	0.049
G1/4	17	28	19.5	42.5	10	0.065

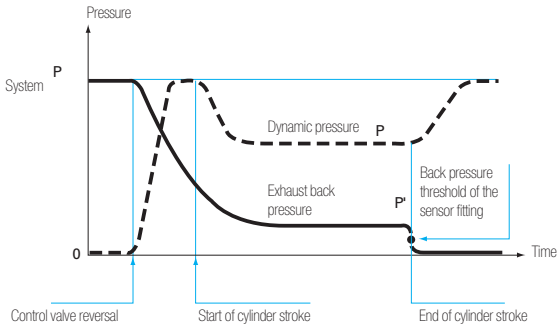
7828 Pneumatic/Electric Sensor, Male/Female BSPP and Metric Thread

Technical polymer, NBR, brass



C	F	H	H1	J	L	L1	Kg
M5x0.8	8	20	10	11	49	5.5	0.116
G1/8	6	20	10	16	52	8	0.132
G1/4	8	20	10	21	54	10.5	0.140
G3/8	10	22	12	28	57	14	0.184
G1/2	12	26	14	33	58	16.5	0.206

Cylinder Pressure Cycle



Installation Diagram

Depending on model, S1, S2 and P1 may be pneumatic or electric. See the installation diagrams opposite.

