

# Pneumatic Sensor Fittings



The sensor produce a pneumatic or electric output signal when the pressure drop in the exhaust chamber of the cylinder goes below their back pressure threshold.

Ø metric:  
4 mm

## Technical Characteristics

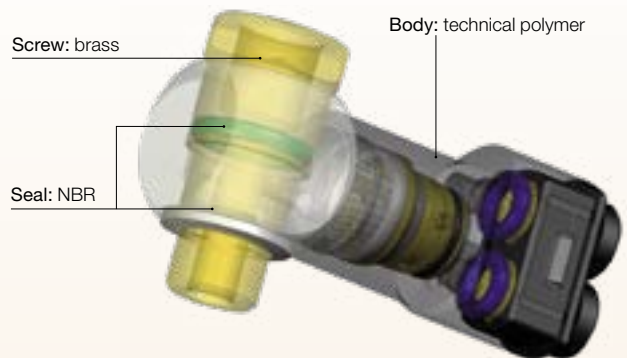
- **Compatible Fluids:** Compressed air
- **Working Pressure:** 3 to 8 bar
- **Working Temperature:** -15°C to +60°C
- **Back Pressure:** 0.85 to 1 bar
- **Switching Time:** Model 7818: 3 ms
- **Open/Closed Contact:** Model 7828: 2A / 0-48 V  
2A / 250 V 50 Hz

## Advantages

- Detection of end of cylinder rod stroke
- With Pneumatic Output**  
Totally pneumatic installation  
2 possible installations:
- 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

## Component Materials

Silicone-free

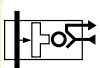


## Regulations

- RoHS
- REACH
- PED

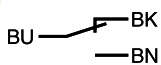
## Operation

### Pneumatic Installation Diagram



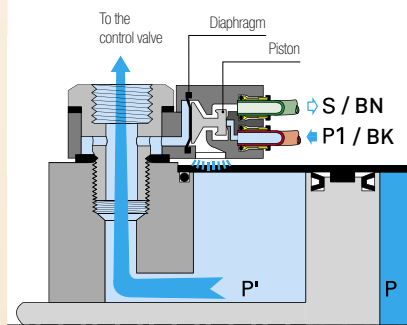
- P': Exhaust back pressure
- P: Dynamic pressure
- P1: Sensor supply pressure
- S: Output signal

### Electrical Installation Diagram

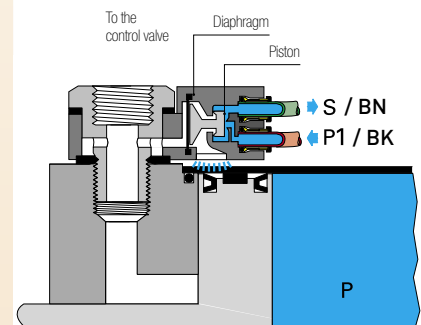


Connection via 3 core 0.5 mm<sup>2</sup> cable, 2 meters long.  
Contactor: 5A / 250 V ~ or 5W / 48V ==

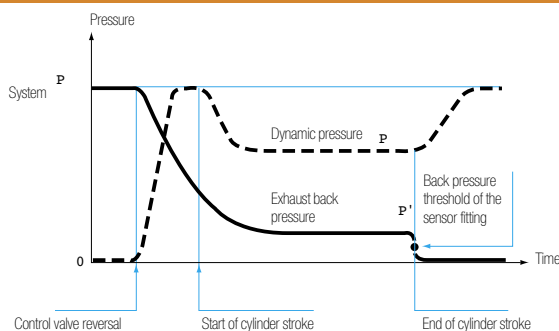
### Cylinder in Operation



### Cylinder in Final Position

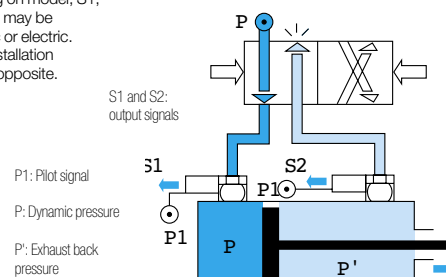


### Cylinder Pressure Cycle



### Installation Diagram

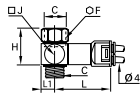
Depending on model, S1, S2 and P1 may be pneumatic or electric. See the installation diagrams opposite.



# Pneumatic Sensor Fittings

## 7818 Pneumatic Sensor Fitting, Male BSPP and Metric Thread

Zamak, NBR, technical polymer, brass

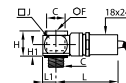


ØD	C		F	H	J	L	L1	Kg
M5x0.8	<b>7818 04 19*</b>		8	16	11	43.5	5.5	0.025
G1/8	<b>7818 04 10</b>		14	23	16	44.5	8	0.043
4	G1/4	<b>7818 04 13</b>	17	28	19.5	46.5	10	0.061
	G3/8	<b>7818 04 17</b>	22	29	23.5	49	12	0.083
	G1/2	<b>7818 04 21</b>	27	30	31.5	52.5	16	0.125

\* Bolt zinc passivated steel

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

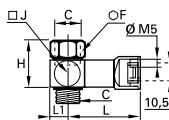
Technical polymer, NBR, brass



C		F	H	H1	J	L	L1	Kg
M5x0.8	<b>7828 00 19</b>	8	20	10	11	49	5.5	0.116
G1/8	<b>7828 00 10</b>	6	20	10	16	52	8	0.132
G1/4	<b>7828 00 13</b>	8	20	10	21	54	10.5	0.142
G3/8	<b>7828 00 17</b>	10	22	12	28	57	14	0.171

## 7818 Pneumatic Sensor, Male/Female BSPP Thread

Zamak, NBR, technical polymer, brass



C		F	H	J	L	L1	Kg
G1/8	<b>7818 19 10</b>	14	23	16	40.5	8	0.049
G1/4	<b>7818 19 13</b>	17	28	19.5	42.5	10	0.065