LEGRIS DETECTION SENSOR FITTINGS



Legris sensor fittings ensure the safety of installations. They emit a pneumatic or electrical signal as soon as the pressure in the cylinder's exhaust chamber falls below its control threshold.

Technical specifications

Fluids: compressed air

Operating pressure: 3 to 8 bar
(Back pressure 0.85 bar to 1 bar)

Operating temperature: -15°C to +60°C

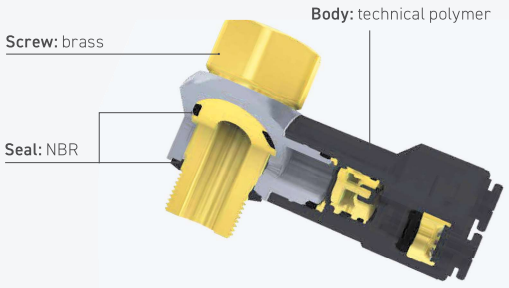
Tube diameter: 4 mm

Connection: M5 to G1/2 (BSPP)

Regulations: RoHS, REACh, PED

Performance depends on the fluid, material and tube used.

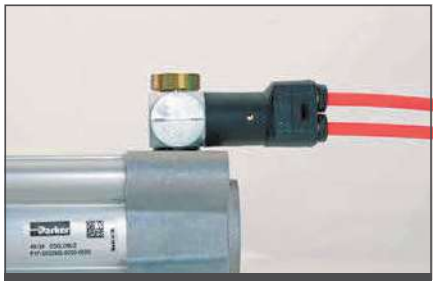
Component materials



Benefits

- **Optimal installation safety by** automating the transmission of a pneumatic or electrical signal as soon as the back pressure threshold is reached.
- The absence of adjustments allows a **quick and efficient installation**.

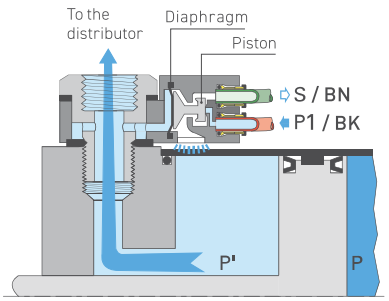
Recommended applications



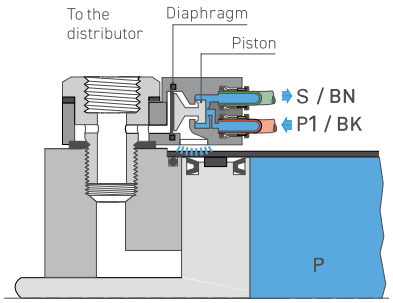
Indicates the position of the cylinder in real time for precise and reliable control

Operating principle

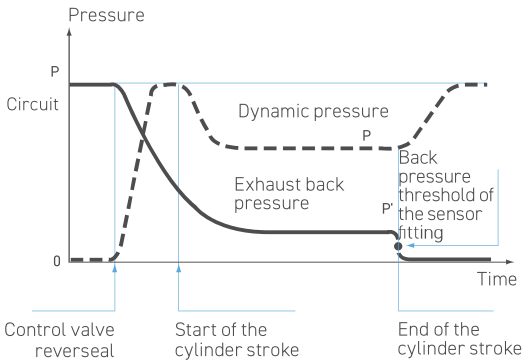
Cylinder in operation



Cylinder in final position



Cylinder pressure cycle



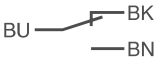
Installation guide

Pneumatic assembly diagram



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

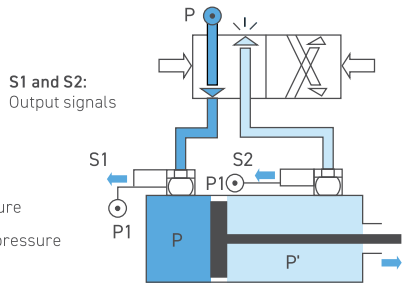
Electrical wiring diagram



The connection is made using three 0.5 mm² cables, each 2 m long.
Contactor: 5A/250 V ∿ or 5W/48V ⎓

Layout diagram

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



User guide

PNEUMATIC OUTPUT

2 exclusively pneumatic assemblies possible:

- Permanently pressurised (P1): guarantees a pneumatic signal when the back pressure threshold is reached;
- Supplied from the distributor-cylinder line on the opposite side: no unexpected pneumatic signal (S) can appear when pressurising thanks to the driving pressure that powers the sensor connection (P1).

Switching time	Model 7818: 3 ms

WITH ELECTRICAL OUTPUT

Combined electrical and pneumatic assembly.
Installation with continuous electrical supply only (BU).
Ensures an electrical signal when the back pressure threshold pressure is reached.

Open/closed contact	Model 7828: 2A/0-48 V 2A/250 V 50 Hz

7818

Pneumatic Sensor Fitting, Male BSPP and Metric Thread

Zamak, technical polymer, brass, NBR



Scan for more dimensions

ØD	C	References
4	M5x0.8	7818 04 19*
	G1/8	7818 04 10
	G1/4	7818 04 13
	G3/8	7818 04 17
	G1/2	7818 04 21

* Bolt zinc passivated steel

7828

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

Technical polymer, brass, NBR



Scan for more dimensions

C	References
M5x0.8	7828 00 19
G1/8	7828 00 10
G1/4	7828 00 13
G3/8	7828 00 17

7818

Pneumatic Sensor, Male/Female BSPP Thread

Zamak, technical polymer, brass, NBR



Scan for more dimensions

C	References
G1/8	7818 19 10
G1/4	7818 19 13