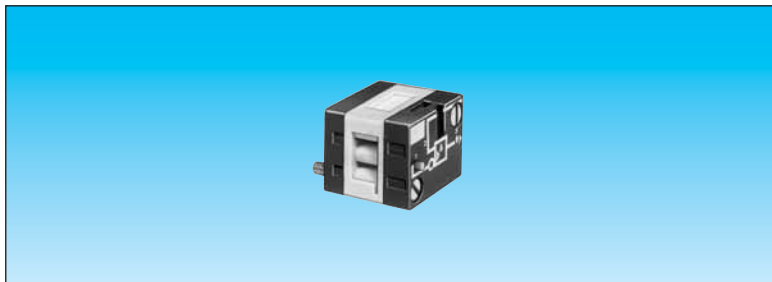


Ex Pressure decay sensor

FILE No. C.PN.HOM.0007.FR
 INERIS No. 18408/05

Equipment intended for use in potentially explosive atmospheres conforming to Directive 94/9/EC



Pressure decay sensor

81 504 035

Classification

CE II 2 G D c IIB 65°C(T6)X

Symbol

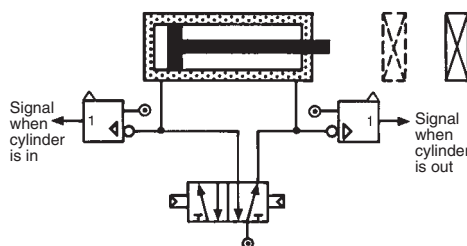


Characteristics

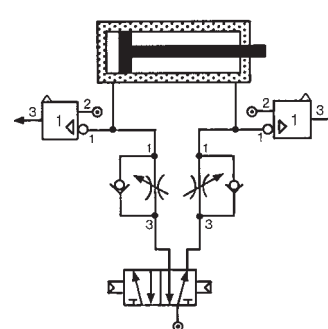
Operating pressure	bar	2 → 8
Flow at 6 bars	NI/min	200
Tripping point with 6 bar supply	b	0.3
Connection		Sub-base page 36-37
Operating temperature	°C	-5 +50
Mechanical life	operations	≥10 ⁷
Weight	g	25

Connections

Without flow restrictor



With flow restrictor

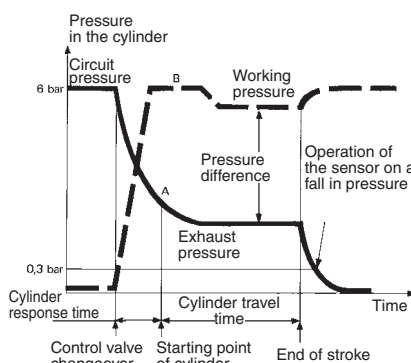


Principle of operation

Fitted in-line between the cylinder and the control valve, the sensor will give an output when the pressure in this line is exhausted and the cylinder is at end of stroke.

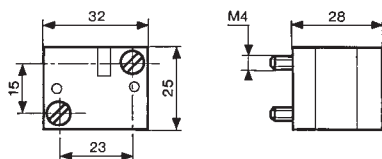
For the correct usage of sensors on a falling pressure, it is recommended that the practical cylinder load is limited to 60% of the theoretical force.

Evolution of pressure within a double-acting cylinder

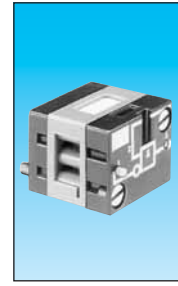
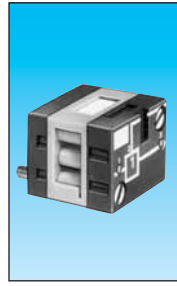
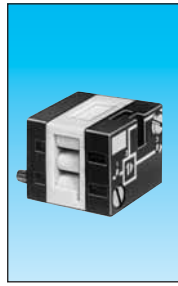


Dimensions

81 504 035



To order an Ex product, you must complete the form on page 53.



81 541 0015

81 541 017

81 501 031

81 503 028

81 504 035

81 506 027

Plug-in
Ø 4

Plug-in
Ø 6

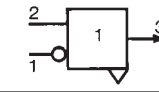
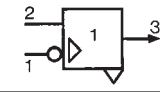
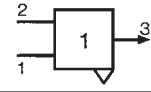
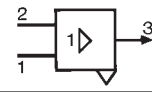
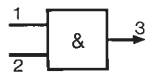
On sub-base
page 36-37

Threshold
On sub-base page
36-37

Threshold
On sub-base page
36-37

Threshold
On sub-base page
36-37

CE II 2 G D c IIB 65°C(T6) X



Ø 4 mm

Ø 6 mm

Yellow

Orange

Light grey

Dark grey

Green

Green

2 • 8

2 • 8

2 • 8

2 • 8

2.7

4

2.7

2.7

2.7

2.7

150

200

170

170

170

170

-5 +50

-5 +50

< 4

< 4

< 4

< 4

>10⁷

>10⁷

>10⁷

>10⁷

>10⁷

>10⁷

13

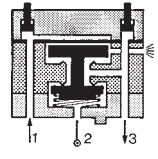
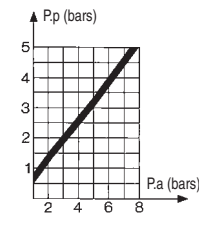
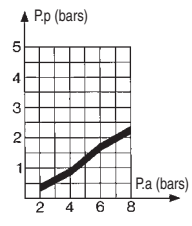
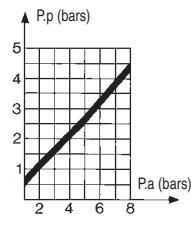
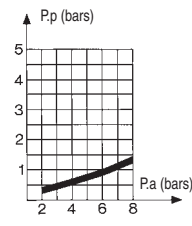
25

30

30

30

30

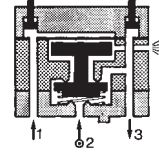


YES element

The output signal "S" is only present when the pilot is present "a" is present:

$S = a$ YES b

$S = a$



NOT element

The output signal "s" is present only if the input signal "a" is NOT present. The output signal is therefore the inverse of the pilot signal:

$S = \text{NOT } a$

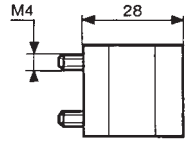
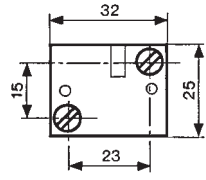
$S = \bar{a}$

If the supply port is connected to a 2nd input "b", the function obtained is called inhibition:

$S = \text{NOT } a \text{ AND } b$

$S = \bar{a} . b$

81 501 031 - 81 503 028
81 504 035 - 81 506 027



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