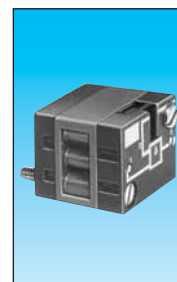
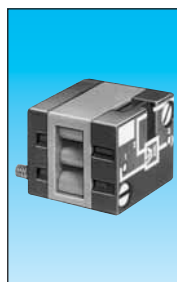


FILE No. C.PN.HOM.00007.FR
INERIS No. 18408/05

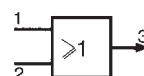
Equipment intended for use in potentially explosive atmospheres conforming to Directive 94/9/EC



Functions	OR	81 521 508	81 540 015	81 540 017	81 522 505
	AND	—	—	—	—
	YES	—	—	—	—
	NO	—	—	—	—
Version		On Sub-base page 36-37	Plug-in Ø 4	Plug-in Ø 6	On Sub-base page 36-37

Classification **CE II 2 G D c IIB 65°C(T6) X**

Symbol



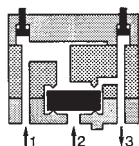
Characteristics

Push-in connection for semi-rigid tubing (NFE 49100)	Male/Female/Female	—	Ø 4 mm	—	—
	Female/Female/Female	—	—	Ø 6 mm	—
Colour		Blue	Blue	Blue	Green
Operating pressure	bar	2 • 8	2 • 8	2 • 8	2 • 8
Orifice diameter	mm	2.7	2.7	4	2.7
Flow at 6 bars	NI/min	170	170	200	170
Pressure indicator		•	—	—	•
Switching time	ms	—	—	—	—
Operating temperature	°C	-5 +50	-5 +50	-5 +50	-5 +50
Mechanical life	operations	>10 ⁷	>10 ⁷	>10 ⁷	>10 ⁷
Weight	g	25	12	25	25

Pilot/pressure curves

P_p : Pilot pressure
P_a : Supply pressure

Principle of operation

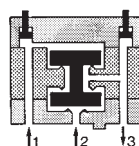


Cellule OR

The output signal "S" is present when a signal at "a" OR "b" is present:

$$S = a \text{ OR } b$$

$$S = a + b$$



Cellule AND

The output signal "S" is present only when signals "a" AND "b" are present simultaneously:

$$S = a \text{ AND } b$$

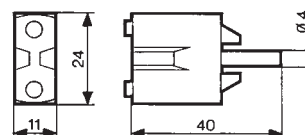
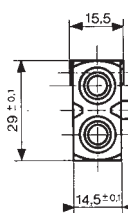
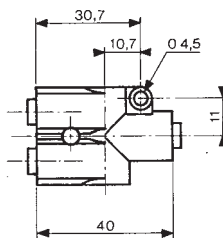
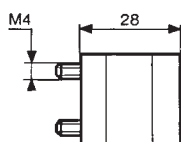
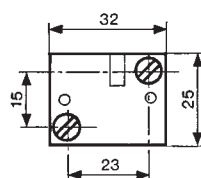
$$S = a \cdot b$$

Dimensions

81 521 508 - 81 522 505

81 540 017 - 81 541 017

81 540 015 - 81 541 015



Other information

See page 36-37 for mounting plan for logic elements.

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



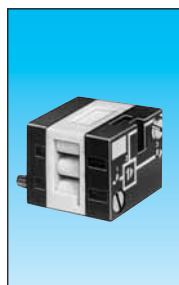
81 541 0015

Plug-in
Ø 4



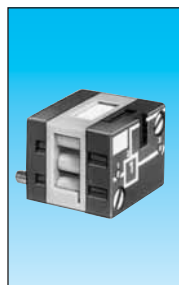
81 541 017

Plug-in
Ø 6



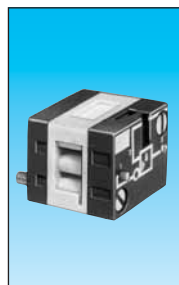
81 501 031

On sub-base
page 36-37



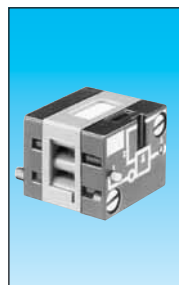
81 503 028

Threshold
On sub-base page
36-37



81 504 035

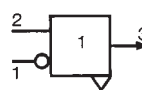
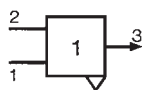
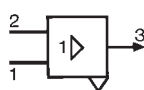
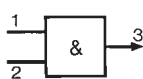
Threshold
On sub-base page
36-37



81 506 027

Threshold
On sub-base page
36-37

CE II 2 G D c IIB 65°C(T6) X



Ø 4 mm

Green

2 • 8

2.7

150

-5 +50

>10⁷

13

Ø 6 mm

Green

2 • 8

4

200

-5 +50

>10⁷

25

Yellow

2 • 8

2.7

170

< 4

-5 +50

>10⁷

30

Orange

2 • 8

2.7

170

< 4

-5 +50

>10⁷

30

Light grey

2 • 8

2.7

170

< 4

-5 +50

>10⁷

30

Dark grey

2 • 8

2.7

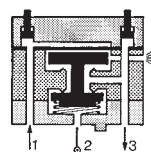
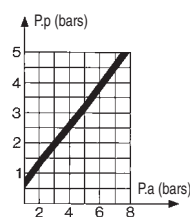
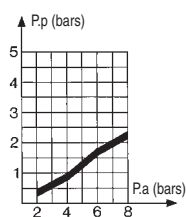
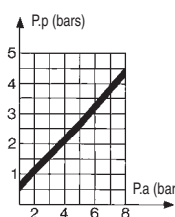
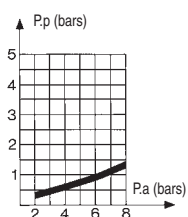
170

< 4

-5 +50

>10⁷

30

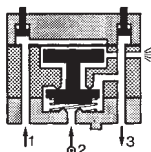


YES element

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

$S = a \text{ YES } b$

$S = a$



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:

$S = \text{NOT } a$

$S = \bar{a}$

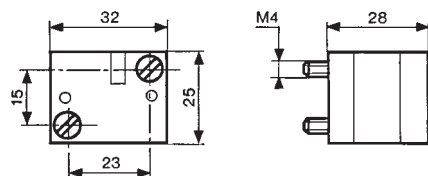
If the supply port is connected to a 2nd input "b", the function obtained is called inhibition:

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

$S = \bar{a} \cdot b$

81 501 031 - 81 503 028

81 504 035 - 81 506 027



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