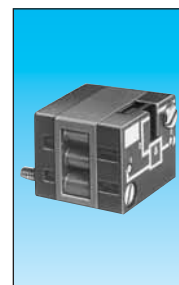
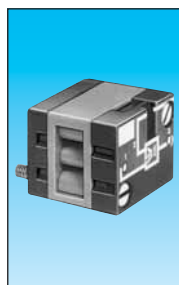


FILE No. C.PN.HOM.00007.FR
INERIS No. 18408/05

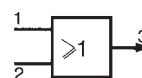
Equipment intended for use in potentially explosive atmospheres conforming to Directive 94/9/EC



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



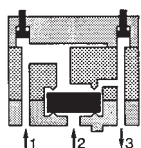
Characteristics

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

Pp : Pilot pressure
Pa : Supply pressure

Principle of operation

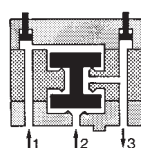


Cellule OR

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:

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

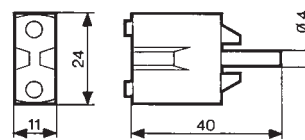
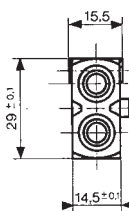
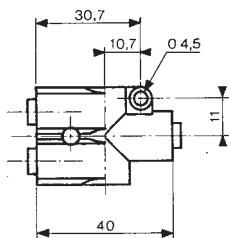
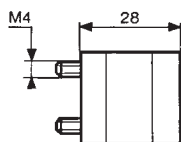
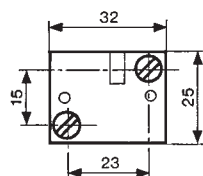
$$S = a \cdot b$$

Dimensions

81 521 508 - 81 522 505

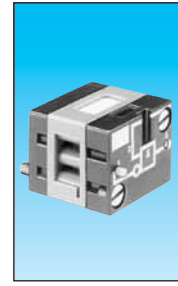
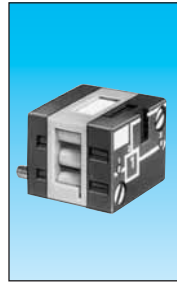
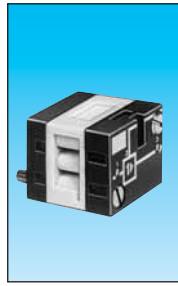
81 540 017 - 81 541 017

81 540 015 - 81 541 015



Other information

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



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

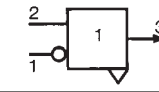
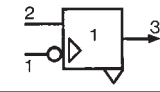
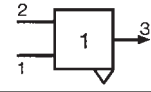
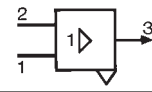
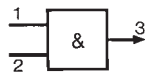
On sub-base
page 36-37

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

Green
2 • 8
2.7
150
-5 +50
>10⁷
13

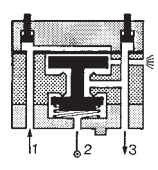
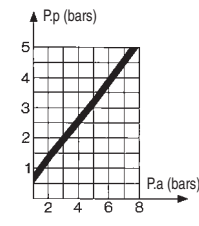
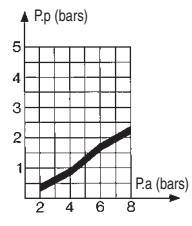
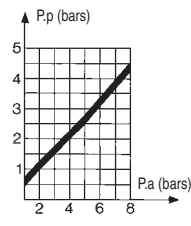
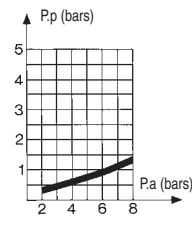
Ø 6 mm
Green
2 • 8
4
200
-5 +50
>10⁷
25

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

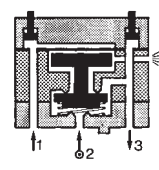


YES element

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

