



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

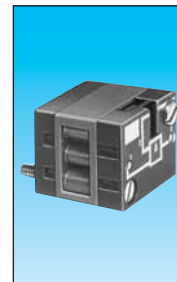
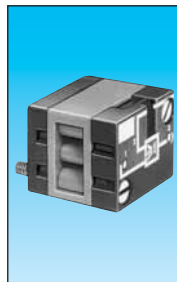
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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

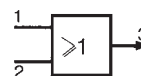
Equipment intended for use in potentially explosive atmospheres conforming to Directive 94/9/EC



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



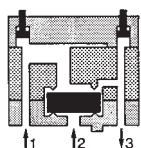
### Characteristics

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 <sup>7</sup>	>10 <sup>7</sup>	>10 <sup>7</sup>	>10 <sup>7</sup>
Weight	g	25	12	25	25

### Pilot/pressure curves

Pp : Pilot pressure  
Pa : Supply pressure

### Principle of operation

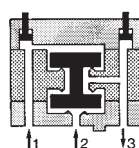


#### Cellule OR

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:

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

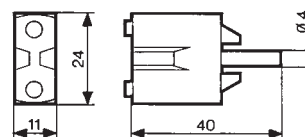
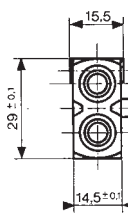
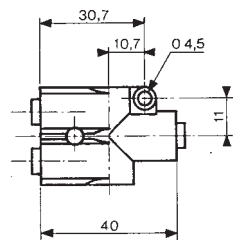
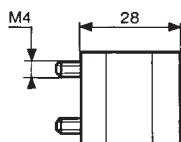
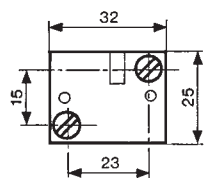
$$S = a \cdot b$$

### Dimensions

81 521 508 - 81 522 505

81 540 017 - 81 541 017

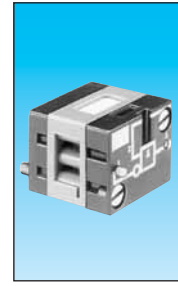
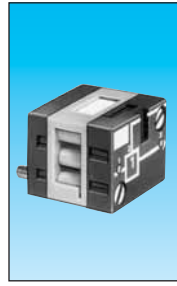
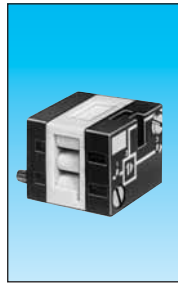
81 540 015 - 81 541 015



### Other information

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

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

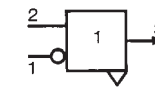
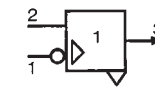
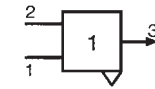
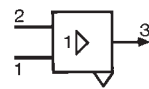
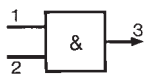
On sub-base  
page 36-37

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

Green

2 • 8

2.7

150

< 4

-5 +50

>10<sup>7</sup>

13

Ø 6 mm

Green

2 • 8

4

200

< 4

-5 +50

>10<sup>7</sup>

25

Yellow

2 • 8

2.7

170

< 4

-5 +50

>10<sup>7</sup>

30

Orange

2 • 8

2.7

170

< 4

-5 +50

>10<sup>7</sup>

30

Light grey

2 • 8

2.7

170

< 4

-5 +50

>10<sup>7</sup>

30

Dark grey

2 • 8

2.7

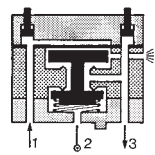
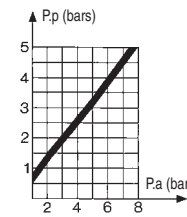
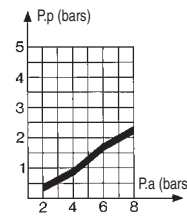
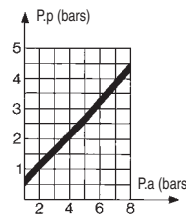
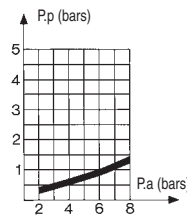
170

< 4

-5 +50

>10<sup>7</sup>

30

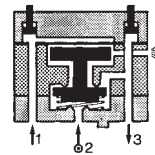


**YES element**

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:

$S = \text{NOT } a$

$S = \bar{a}$

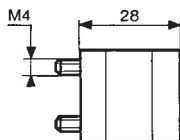
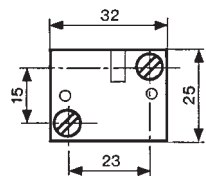
If the supply port is connected to a 2nd input "b", the function obtained is called inhibition:

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

$S = \bar{a} . b$

81 501 031 - 81 503 028

81 504 035 - 81 506 027



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