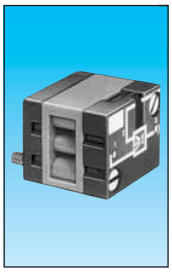
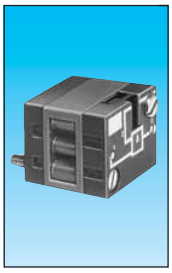
Logic elements

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

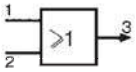
Equipment intended for use in potentially explosive atmospheres conforming to Directive 94/9/EC

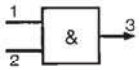


		81 521 508	81 540 015	81 540 017	81 522 505
Functions	OR	—	—	—	—
	AND	—	—	—	—
	YES	—	—	—	—
	NO	—	—	—	—
Version		On Sub-base page 36-37	Plug-in Ø 4	Plug-in Ø 6	On Sub-base page 36-37
Classification		CE Ex II 2 G D c IIB 65°C(T6) X			

Symbol





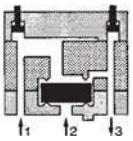
Characteristics

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		Nl/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

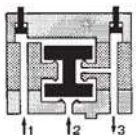
Principle of operation



Cellule OR

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

S = a OR b S = a + b



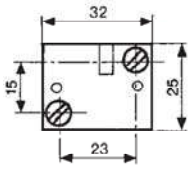
Cellule AND

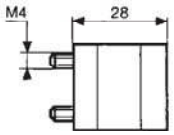
The output signal "S" is present only when signals "a" AND "b" are present simultaneously:

S = a AND b S = a . b

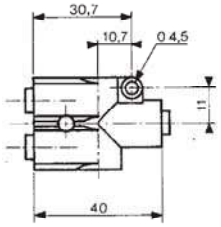
Dimensions

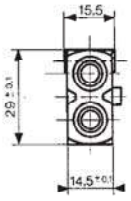
81 521 508 - 81 522 505



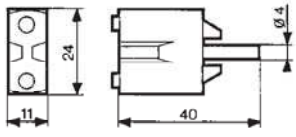


81 540 017 - 81 541 017





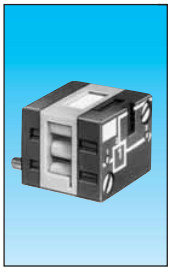
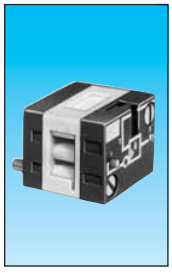
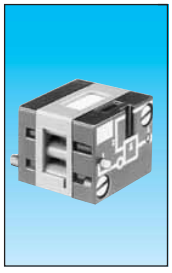
81 540 015 - 81 541 015



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

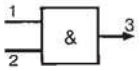
To order an Ex product, you must complete the form on page 53.

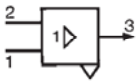


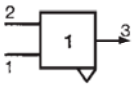





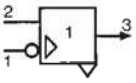
—	—	—	—	—	—
81 541 0015	81 541 017	—	—	—	—
—	—	—	—	—	—
—	—	81 501 031	81 503 028	81 504 035	81 506 027
—	—	—	—	—	—
Plug-in Ø 4	Plug-in Ø 6	On sub-base page 36-37	Threshold On sub-base page 36-37	Threshold On sub-base page 36-37	Threshold On sub-base page 36-37

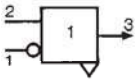
CE Ex II 2 G D c IIB 65°C(T6) X



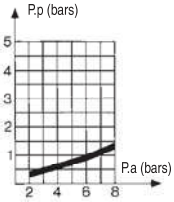


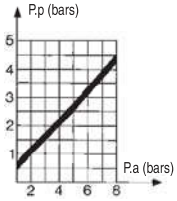


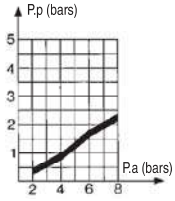


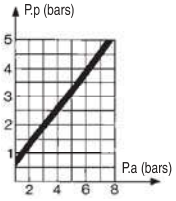


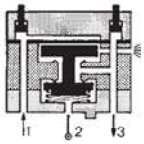
Ø 4 mm	—	—	—	—	—
—	Ø 6 mm	—	—	—	—
Green	Green	Yellow	Orange	Light grey	Dark grey
2 • 8	2 • 8	2 • 8	2 • 8	2 • 8	2 • 8
2.7	4	2.7	2.7	2.7	2.7
150	200	170	170	170	170
—	●	●	●	●	●
—	—	< 4	< 4	< 4	< 4
-5 +50	-5 +50	-5 +50	-5 +50	-5 +50	-5 +50
$>10^7$	$>10^7$	$>10^7$	$>10^7$	$>10^7$	$>10^7$
13	25	30	30	30	30







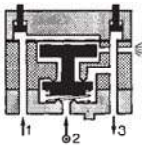




YES element

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

S = a YES b S = a



NOT element

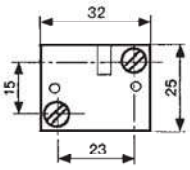
The output signal "s" is present only if the input signal "a" is NOT present. The output signal is therefore the inverse of the pilot signal:

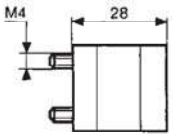
S= NOT a S = $\overline{a}$

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

S = NOT a AND b S = $\overline{a}$. b

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





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