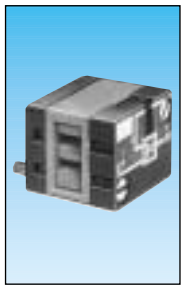
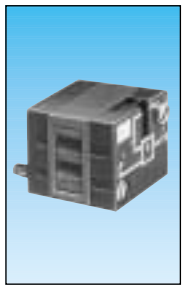
Logic elements

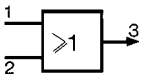


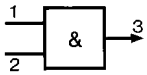


Part numbers

	OR	81 521 501	81 540 001	81 540 005	81 522 501
Functions	AND	—	—	—	—
	YES	—	—	—	—
	NO	—	—	—	—
Version		On sub-base page 4/14 - 4/15	Plug-in Ø 4	Plug-in Ø 6	On sub-base page 4/14 - 4/15

Symbol





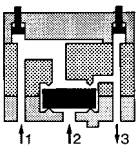
Characteristics

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

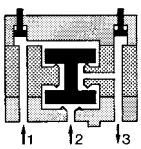
Principle of operation



OR element

The output signal “S” is present when a signal at “a” OR “b” is present

S = a OR b S = a + b



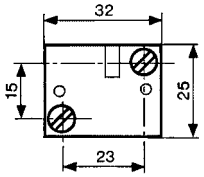
AND element

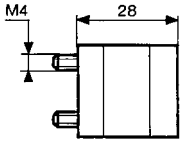
The output signal “S” is present only when signals “a” AND “b” are present simultaneously.

S = a AND b S = a . b

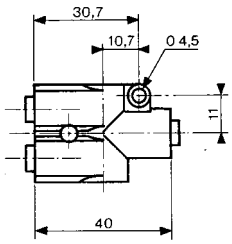
Dimensions

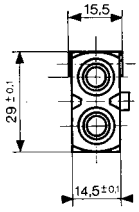
81 521 501 - 81 522 501



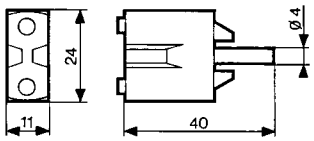


81 540 005 - 81 541 005



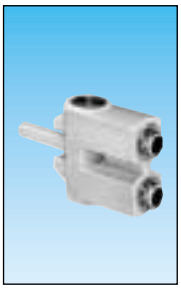


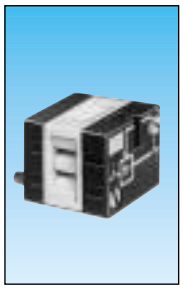
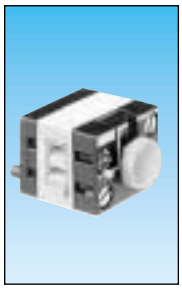
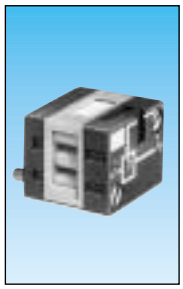
81 540 001 - 81 541 001

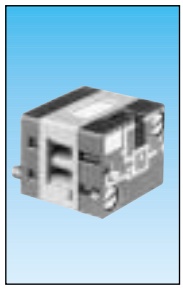


Other information

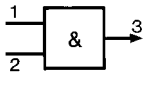
See page 4/8 for mounting plan for logic elements.

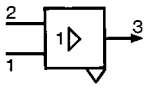


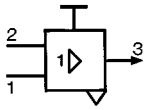




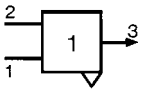


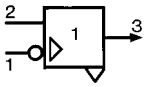
81 541 001	81 541 005	81 501 025	81 501 065	81 503 025	81 504 025	81 506 025
Plug-in Ø 4	Plug-in Ø 6	On sub-base page 4/14 - 4/15	Manual override On sub-base page 4/14 - 4/15	Threshold On sub-base page 4/14 - 4/15	Simple and inhibition On sub-base page 4/14 - 4/15	Threshold On sub-base page 4/14 - 4/15

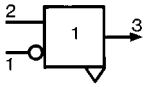




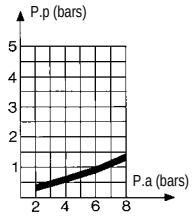


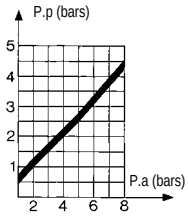


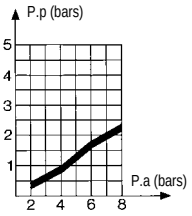


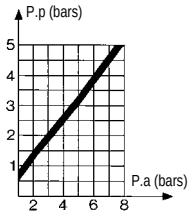


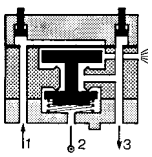
Ø 4 mm	Ø 6 mm	Yellow	Yellow	Orange	Light grey	Dark grey
Green	Green	2 • 8	2 • 8	2 • 8	2 • 8	2 • 8
2 • 8	2 • 8	2.7	2.7	2.7	2.7	2.7
2.7	4	170	170	170	170	170
150	200	●	●	●	●	●
—	●	< 4	< 4	< 4	< 4	< 4
—	—	-5 +50	-5 +50	-5 +50	-5 +50	-5 +50
-5 +50	-5 +50	$>10^7$	$>10^7$	$>10^7$	$>10^7$	$>10^7$
$>10^7$	$>10^7$	30	35	30	30	30
13	25					







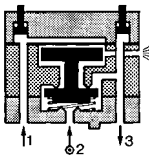




YES element

The output signal “S” is only present when the pilot is present :

S = a YES b S = a



NOT element

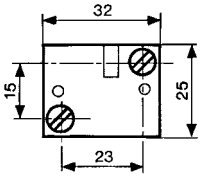
The output signal “s” is present only if the input signal “a” is NOT present. The output signal is therefore the inverse of the pilot signal.

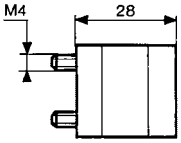
S= NOT a S = $\overline{a}$

If the supply port is connected to a 2nd input “b”, the function obtained is called Inhibition.

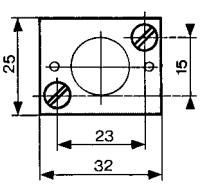
S = NOT a AND b S = $\overline{a}$. b

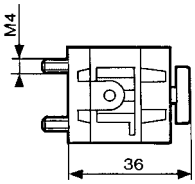
81 501 025 - 81 503 025
81 504 025 - 81 506 025





81 501 065





To order, specify :

Standard products

Standard products, non stocked

1 Part number

Example : Logic elements 81 521 501

Crouzet