

BASIC LOGIC VALVES

SERIES 2L

Cartridge Ø4 mm
or - and - yes - not - memory



Series 2L basic logic functions are available in 5 different models and can be mounted separately by means of 2 passing holes in the body. Bracket Mod. 2LQ-8A allows to have the inlets and outlets on the front side, facilitating the mounting of the connection tubes.

All models are constructed with the pressure window incorporated, which allows an easy detection of any problems. Moreover the fittings are incorporated into the valve body and are super-rapid Ø4.

The “NOT” element has an actuating pressure of 0,3 bar.

VALVES AND SOLENOID VALVES

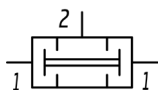
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General Data

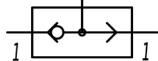
Construction	Poppet (spool memory)
Materials	Aluminium body; NBR seals; OT58 brass
Valve group	Automatic valves (logic units)
Ports	Cartridge Ø4
Operating temperature	0°C ÷ 60°C (-20°C with dry air)
Operating pressure	2 bar ÷ 10 bar
Nominal flowrate	100 NL/min. (6 bar ΔP = 1)
Fluid	Filtered air, without lubricant. If lubricated air is used, it is recommended to use oil ISO VG32. Once applied the lubrication should never be interrupted.

BASIC LOGIC VALVES
SERIES 2L - DIMENSIONS

Basic logic valves AND/OR



AND1



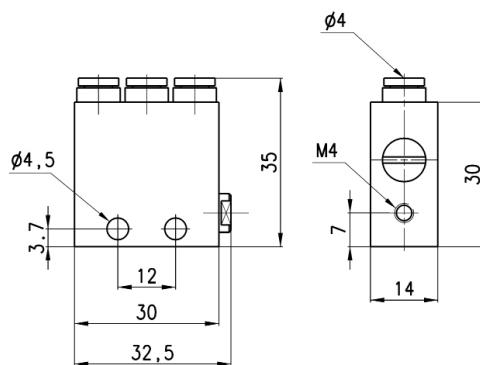
OR01



AND2

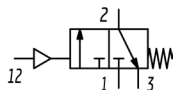


OR02

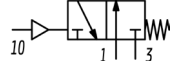


Mod.	Function	Pneumatic symbol	Logic symbol
2LD-SB4-B	AND	AND1	AND2
2LR-SB4-B	OR	OR01	OR02

Basic logic valves YES/NOT



YES1



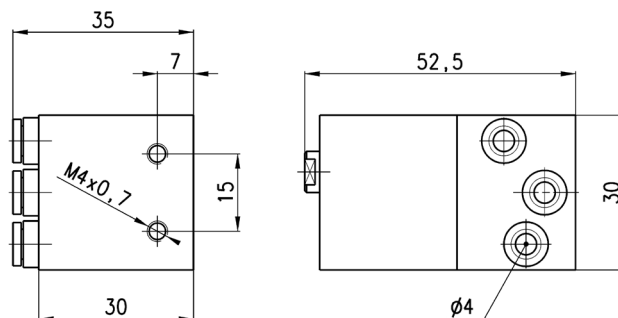
NOT1



YES2

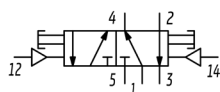


NOT2

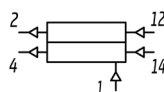


Mod.	Function	Pneumatic symbol	Logic symbol
2LS-SB4-B	YES	YES1	YES2
2LT-SB4-B	NOT	NOT1	NOT2

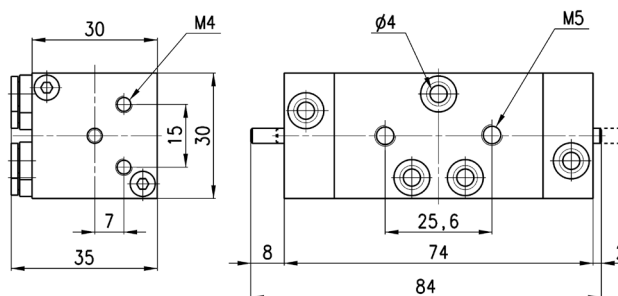
Basic logic valves "Memory"



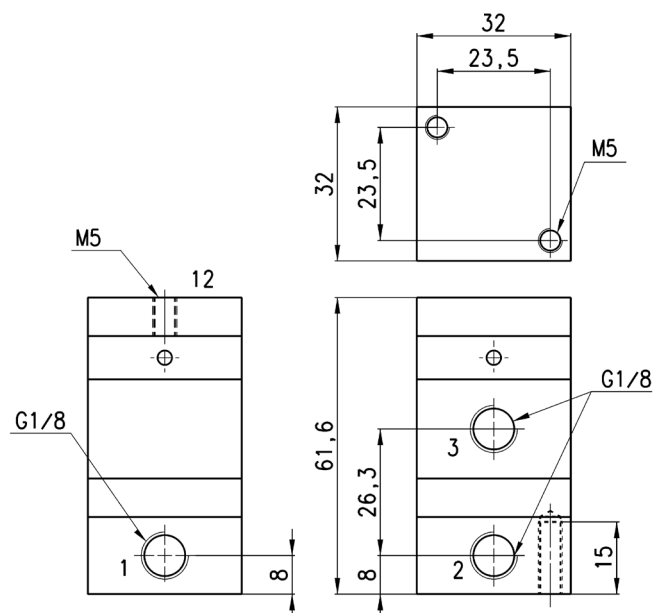
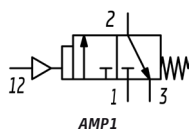
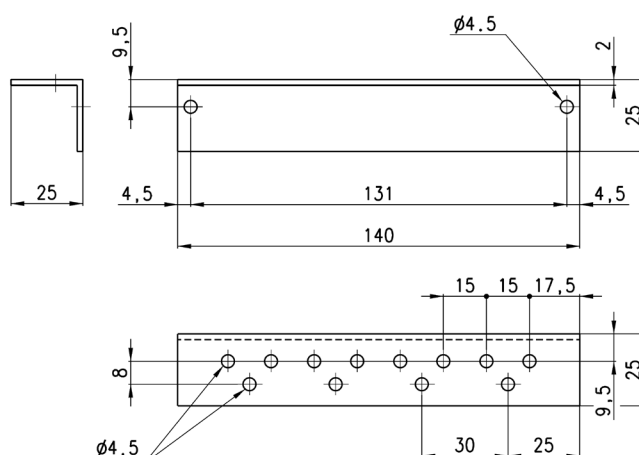
MEM1



MEM2



Mod.	Function	Pneumatic symbol	Logic symbol
2LM-SB4-B	Memory	MEM1	MEM2

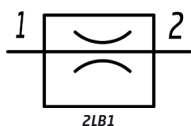


BASIC LOGIC VALVES
SERIES 2L - DIMENSIONS

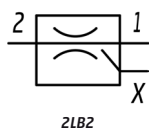
Sender and receiver sensor Series 2L - M5 ports



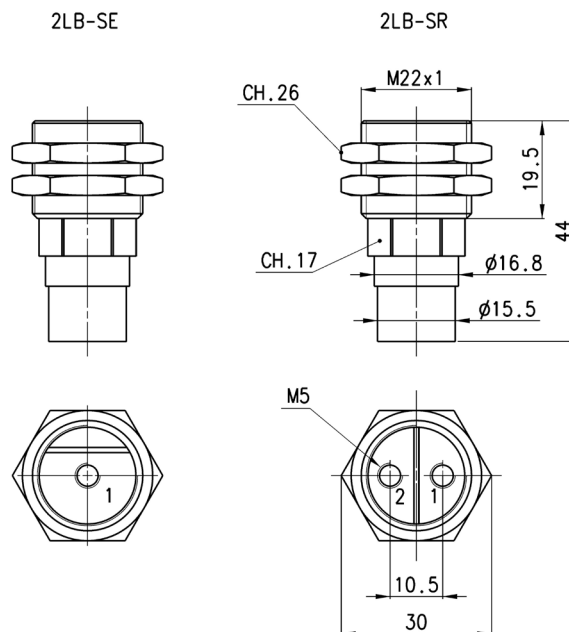
Materials: aluminium - brass
Construction: nozzle without moving parts
Threading mounting: M22 x 1
Mounting diameter: 22,5 mm
Mounting bracket: B20-25, E20-25
Max air consumption: P 2 bar 45 NL/min
Fluid: filtered air, without lubricant



Conditions of functioning: the receiver pressure (2LB-SR) has to be lower or equal compared with the sender pressure (2LB-SE)

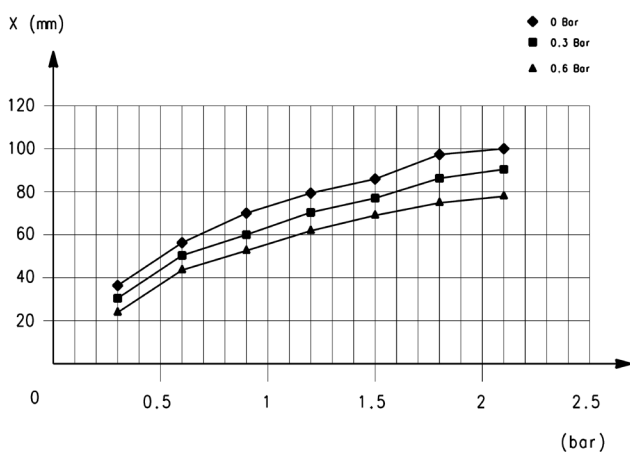


The receiver nozzle (2LB-SR) is supplied to ensure the self-cleaning. The air jet of the sender (2LB-SE) avoids the free outflow of the air jet from the receiver. A back pressure is thus produced that generates at outlet A a pilot pressure which is sent to the amplifier drive. When an object interrupts the air jet between the two sensors, this signal becomes zero.

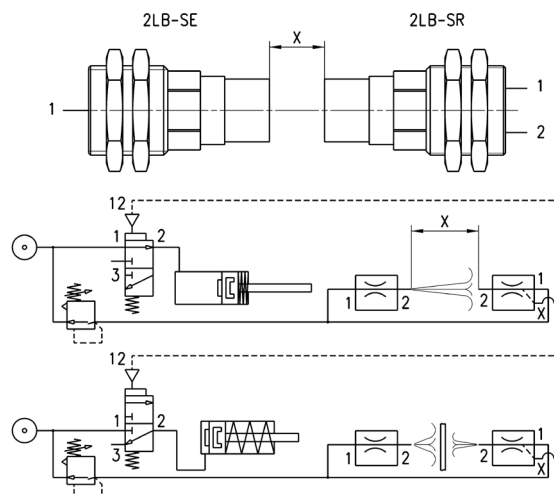


Mod.	Type	Min. pressure	Max. pressure	Temperature	Symbol
2LB-SE	Sender	0,3 bar	2 bar	-20°C ÷ +60°C	2LB1
2LB-SR	Receiver	0,3 bar	0,6 bar	-20°C ÷ +60°C	2LB2

Sender and receiver sensors series 2L



DISTANCE DIAGRAM between
SENDER (2LB-SE) and RECEIVER (2LB-SR)
according to the supply pressures



X = distance between nozzles (30 mm ÷ 80 mm)