2

Series 2L basic logic valves

Cartridge Ø 4 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.

GENERAL DATA

Construction poppet (spool memory)

Materials aluminium body; NBR seals; OT58 brass

Valve group automatic valves (logic units)

Ports cartridge ø 4

Operating temperature 0°C ÷ 60°C (-20°C with dry air)

Operating pressure 2 bar ÷ 10 bar

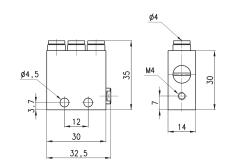
Nominal flowrate 100 NI/min. (6 bar $\Delta P = 1$) Fluid filtered air, without lubricant.

If lubricated air is used, it is recommended to use oil ISO VG32. Once applied the lubrication should never be interrupted.

CONTROL

Basic logic valves AND / OR







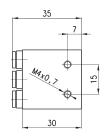


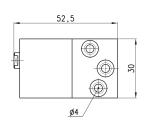


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Mod.	Function	Pneumatic symbol	Logic symbol
2LD-SB4-B	AND	AND1	AND2
2LR-SB4-B	OR	OR01	OR02

Basic logic valves YES / NOT









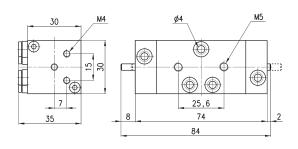


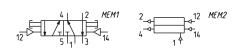


2LS-SB4-B YES YES1 YES2	Mod.	Function	Pneumatic symbol	Logic symbol
	2LS-SB4-B	YES	YES1	YES2
2LT-SB4-B NOT NOT1 NOT2	2LT-SB4-B	NOT	NOT1	NOT2

Basic logic valves "Memory"





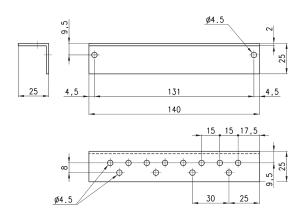


Mod.	Function	Pneumatic symbol	Logic symbol
2LM-SB4-B	Memory	MEM1	MEM2

2

Right-angled bracket





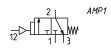
Mod.

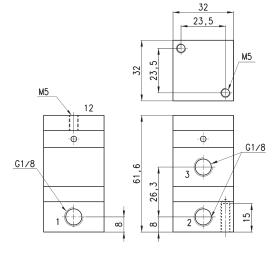
Pneumatically operated 3/2 NC amplifier valve - G1/8 ports

The amplifier valve Mod. 2LA-AM is able to change low pressure signals into signals with pressure from 2 to 8 bar. The poppet type construction shows a minimum permanent air consumption at rest.

Mounting: with M5 screws Installation: in any position Fluid: filtered air, without lubricant

Materials: - AL body - NBR seals





Mod.	Working pressure (bar)	Min/max operating pressure (bar)	Permanent air consumption at rest (NI/min)	Nominal flow (NI/min ΔP 1)
2LA-AM	2 ÷ 8	0.03 / 0.6	3.3	120

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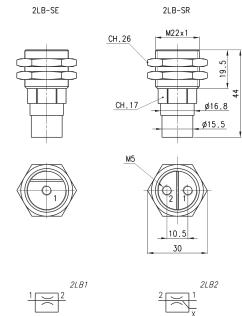
CATALOGUE > Release 8.7

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 NI/min Fluid: filtered air, without lubricant

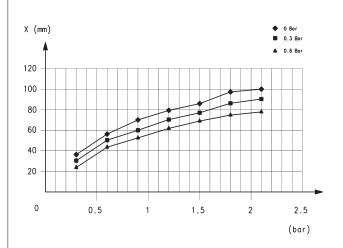
Conditions of functioning: the receiver pressure (2LB-SR) has to be lower or equal compared with the sender pressure (2LB-SE)

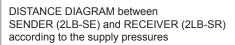
The receiver nozzle (2LB-SR) is supplied to ensure the self-cleaning. The air jet of the sender (2LB-SE) avoids the free outflow of the air jet from the receiver. A back pressure is thus produced that generates at outlet A a pilot pressure which is sent to the amplifier drive. When an object interrupts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

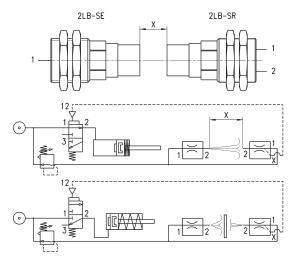


Mod.	Туре	Min. pressure	Max pressure	Temperature	Symbol
2LB-SE	Sender	0.3 bar	2 bar	-20°C ÷ +60°C	2LB1
2LB-SR	Receiver	0.3 bar	0.6 bar	-20°C ÷ +60°C	2LB2

SENDER AND RECEIVER SENSORS SERIES 2L







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