

Logic component OS

FESTO



Characteristics

At a glance

Pneumatic OR gate for logical function control.

- Pneumatic control system
- Product complies with ISO 1179-1 and ISO 228-1

Series

[OS] OR gate

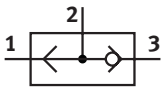
For an OR gate, at least one of all the input signals must be active in order to execute a function.

Datasheet

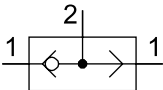
General technical data

Pneumatic connection, port 1	G1/8	G1/4	G1/2	1/8 NPT	1/4 NPT	PK-3	PK-4
Pneumatic connection, port 2	G1/8	G1/4	G1/2	1/8 NPT	1/4 NPT	PK-3	PK-4
Pneumatic connection, port 3	G1/8	G1/4	G1/2	1/8 NPT	1/4 NPT	PK-3	PK-4
Nominal size	4 mm	6.5 mm	12 mm	4 mm	6.5 mm	2.4 ... 2.5 mm	–
Standard nominal flow rate (standardised to DIN 1343)	500 l/min	1,170 l/min	5,000 l/min	500 l/min	1,170 l/min	100 ... 120 l/min	–
Type of mounting	With through-hole					Front panel mounting, With through-hole	With through-hole
Mounting position	optional		–	optional			–

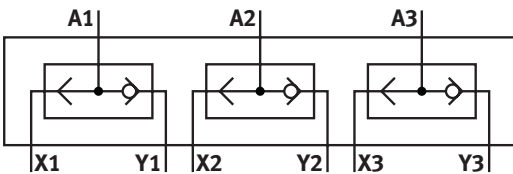
Function OS-1/2; OS-2-R-M5



Function OS-1/8-B; OS-1/4-B; OS-PK-3



Function OS-PK-3-6/3



Operating and environmental conditions

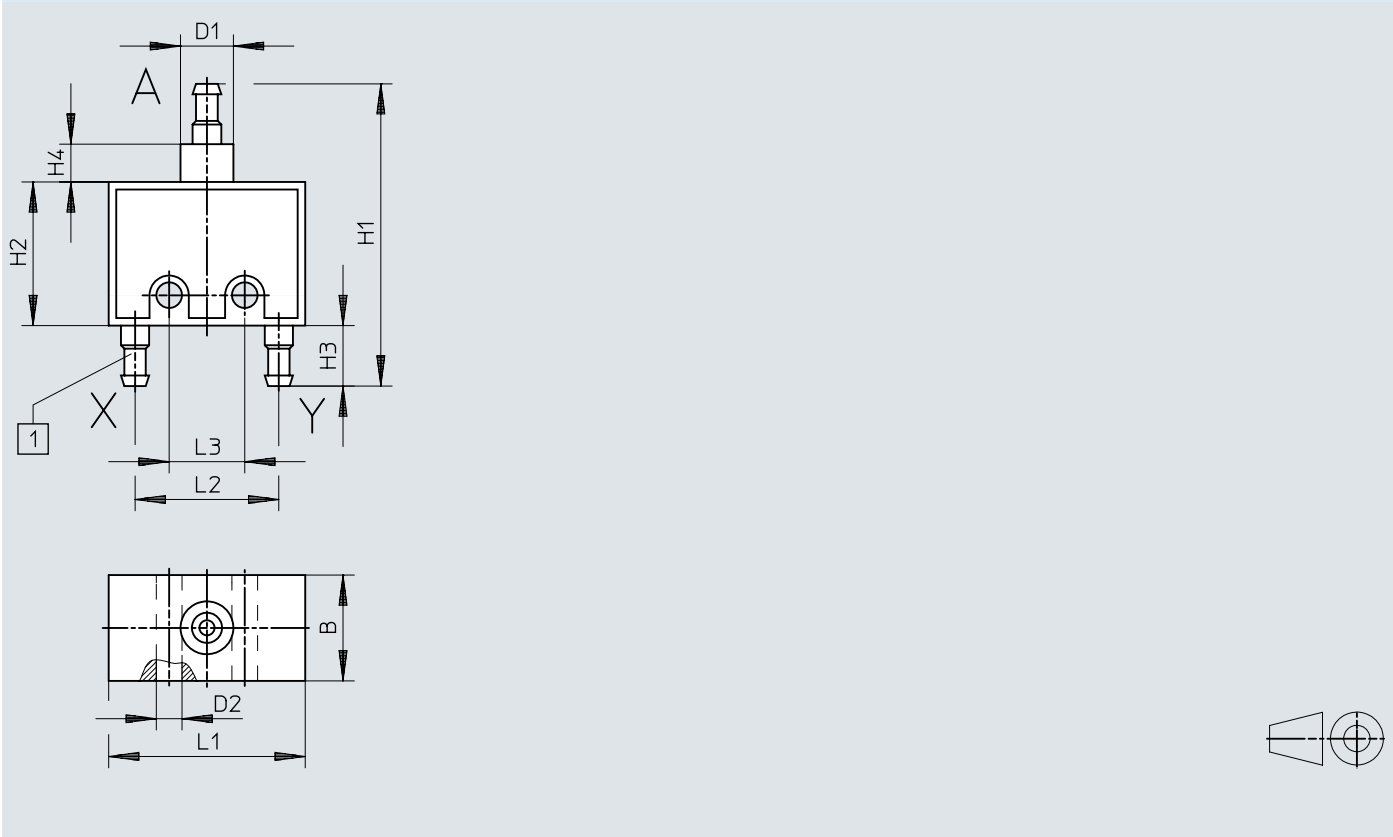
Pneumatic connection, port 1	G1/8	G1/4	G1/2	1/8 NPT	1/4 NPT	PK-3	PK-4
Operating pressure	1 ... 10 bar					1.6 ... 8 bar	0.001 ... 6 bar
Operating pressure	14.5 ... 145 psi					23.2 ... 116 psi	–
Operating medium	Compressed air to ISO 8573-1:2010 [7:::]					–	–
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)					–	–
Ambient temperature	-10 ... 60°C					–	–
Media temperature	-10 ... 60°C					–	–

Materials

Material housing	Wrought aluminium alloy, POM						
Note on materials	RoHS-compliant						
LABS (PWIS) conformity	VDMA24364-B2-L, VDMA24364-B1/B2-L						

Dimensions

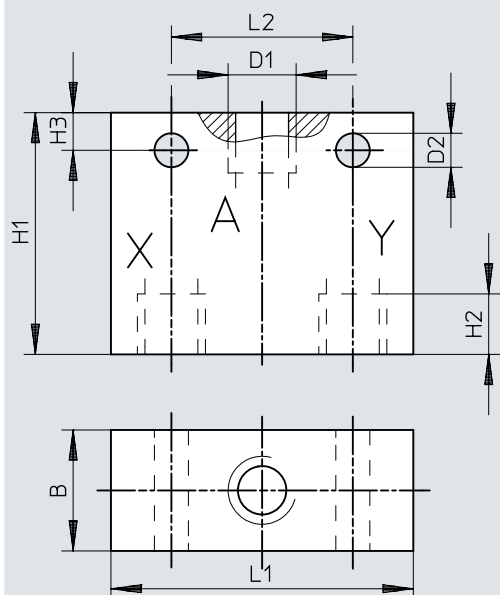
Dimensions – OS-1/2 Download CAD data www.festo.com



	B	D1 Ø	D2 Ø	H1	H2	H3	H4	L1	L2	L3
OS-PK-3	14	7	3,4	40	19	8	5	26	19	10

Dimensions

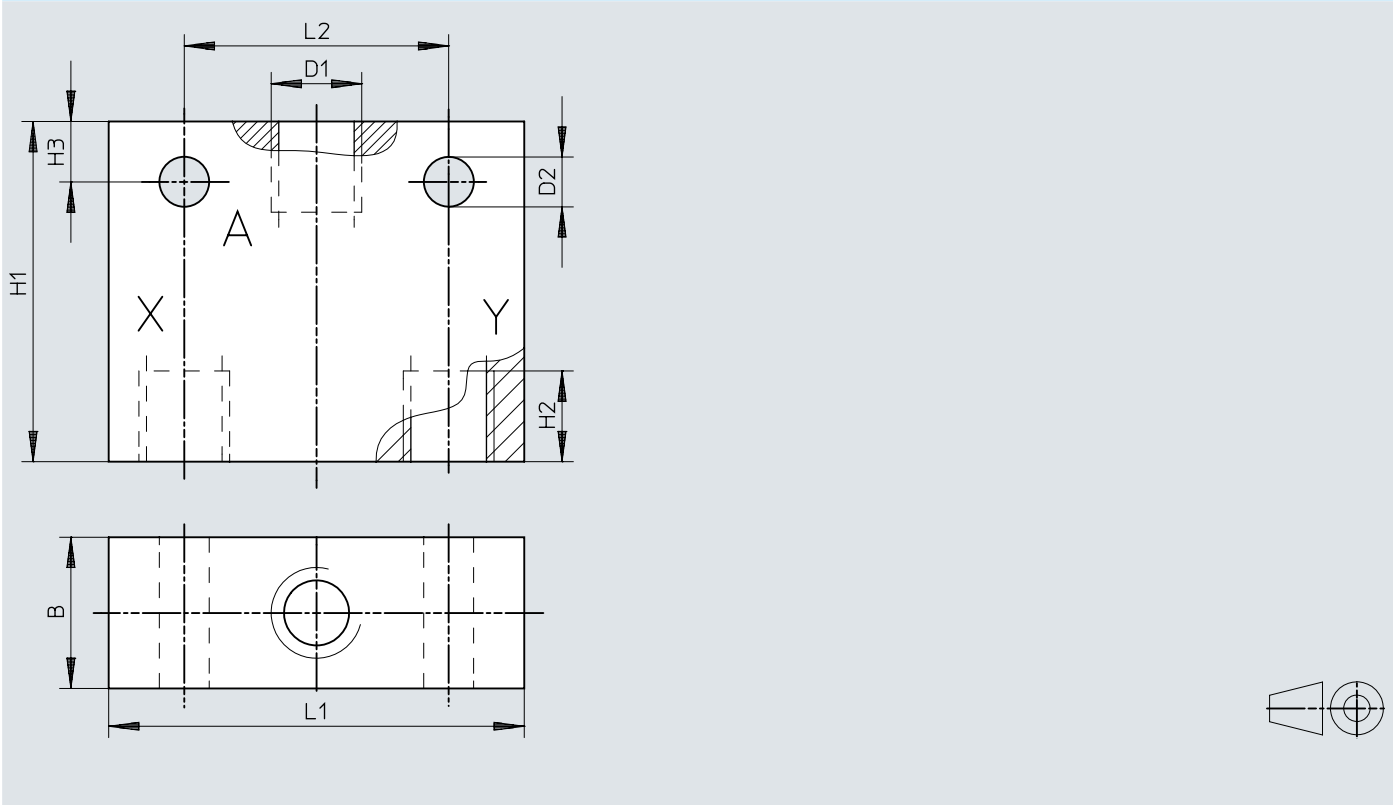
Dimensions – OS-1/4-B

 Download CAD data www.festo.com


	B	D1	D2 Ø	H1	H2	H3	L1	L2
OS-1/8-B	16	G1/8	4,5	32	8	5	40	24
OS-1/8-NPT	16	1/8 NPT	4,5	32	–	5	40	24

Dimensions

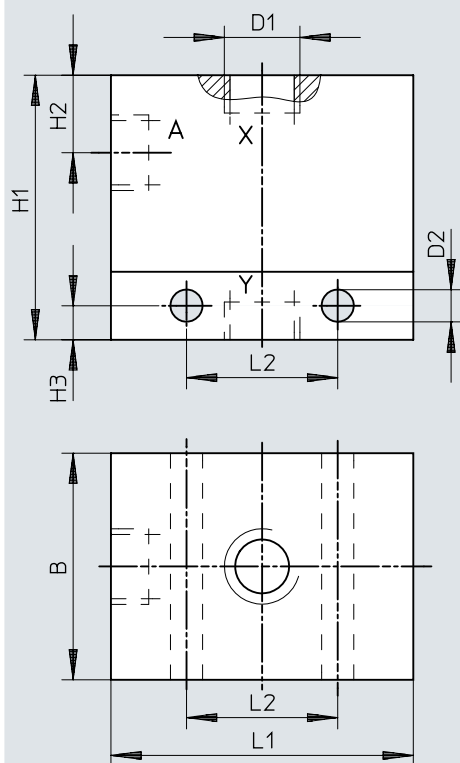
Dimensions – OS-1/4-B Download CAD data www.festo.com



	B	D1	D2 Ø	H1	H2	H3	L1	L2
OS-1/4-B	20	G1/4	6,6	45	12	8	55	35
OS-1/4-NPT	20	1/4 NPT	6,6	45	–	8	55	35

Dimensions

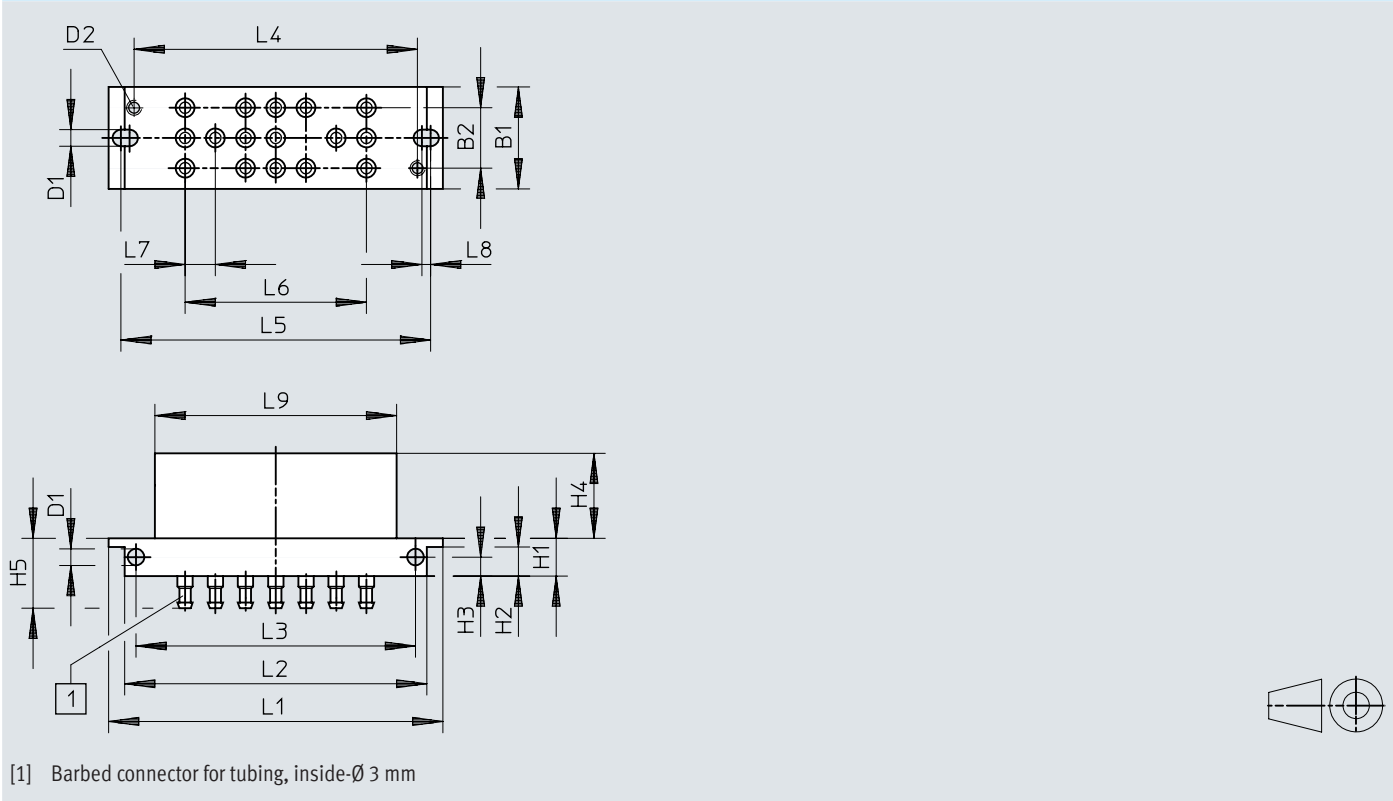
Dimensions – OS-1/2

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	B	D1	D2 Ø	H1	H2	H3	L1	L2
OS-1/2	60	G1/2	8,5	70	20,5	9	80	40

Dimensions

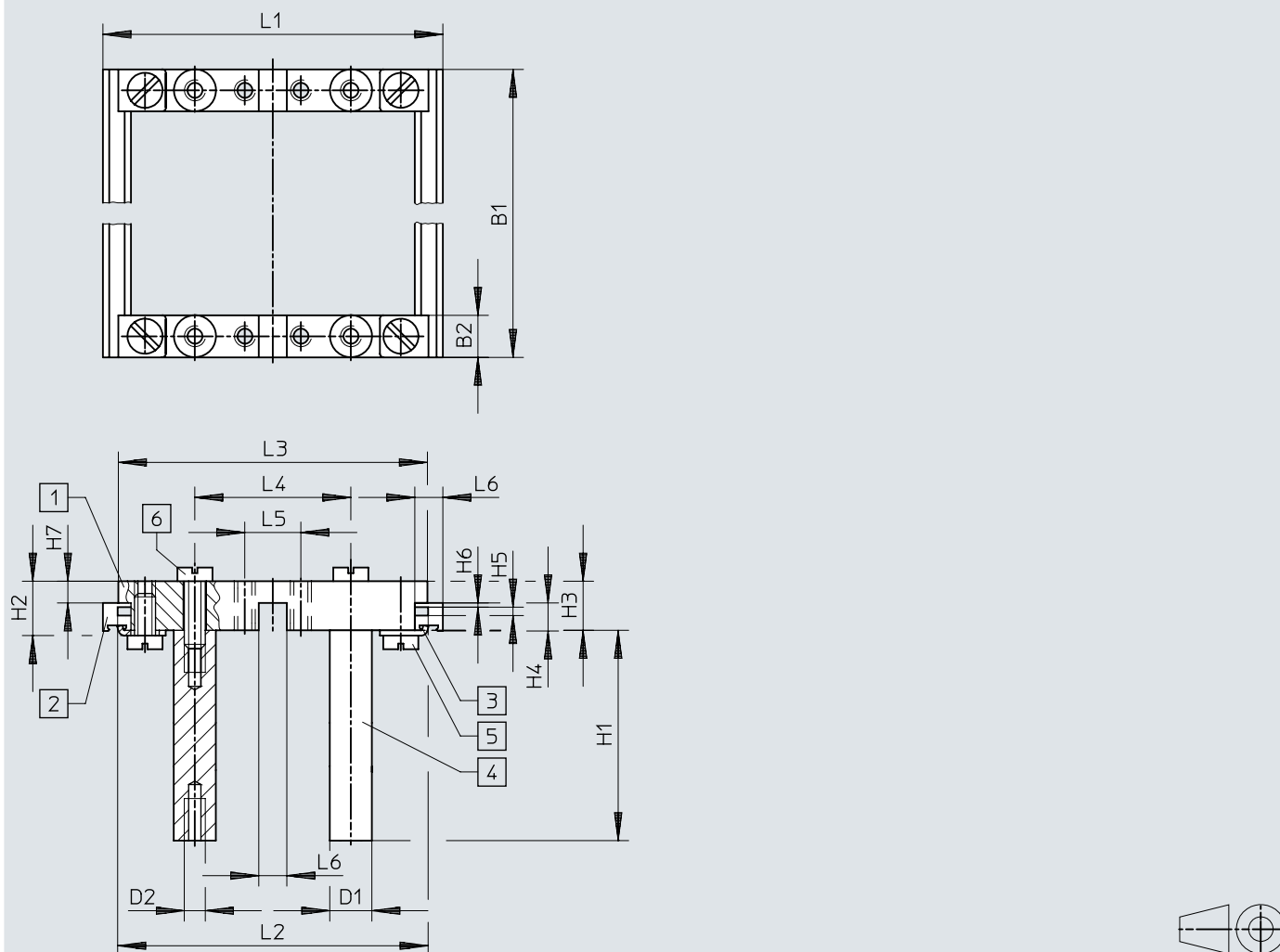
Dimensions – AND/OR blocks OS/ZK Download CAD data www.festo.com



	B1	B2	D1 Ø	D2	H1	H2	H3	H4	H5	L1	L2	L3	L4	L5	L6	L7	L8	L9
OS/ZK	27	16	4,4	M4	10	7,7	5	22,5	18,5	88,5	80,8	74	75	81	48	8	2,3	64

Dimensions

Dimensions – Mounting frame NRRQ-2N

[Download CAD data](#) www.festo.com


- [1] Connecting component NRV-2N
- [2] Profile strip NRQ-8-480
- [3] Mounting bracket NRW-12/3
- [4] Bolt NRB-12/60
- [5] Socket head screw DIN 84-M6X18-4.8
- [6] Socket head screw DIN 84-M6X12-4.8

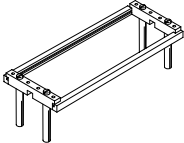
	B1	B2	D1 ø	D2	H1	H2	H3	H4	H5	H6	H7	L1	L2	L3	L4	L5	L6
NRRQ	480	12	12	M6	60	15,5	14	8	2,4	1,2	6,2	97	88,6	88,2	44,5	16	8

Ordering data

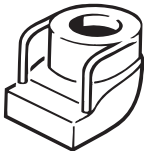
Ordering data						
Pneumatic connection, port 1	Pneumatic connection, port 2	Pneumatic connection, port 3	Nominal size	Product weight	Part no.	Type
G1/8	G1/8	G1/8	4 mm	45 g	6681	OS-1/8-B
G1/4	G1/4	G1/4	6.5 mm	110 g	6682	OS-1/4-B
G1/2	G1/2	G1/2	12 mm		3427	OS-1/2
PK-3	PK-3	PK-3	2.4 mm	9 g	6684	OS-PK-3
			2.5 mm	90 g	4232	OS-PK-3-6/3
PK-4	PK-4	PK-4			7423	OS-2-R-M5

Ordering data – NPT (only for North America)						
Pneumatic connection, port 1	Pneumatic connection, port 2	Pneumatic connection, port 3	Nominal size	Product weight	Part no.	Type
1/8 NPT	1/8 NPT	1/8 NPT	4 mm	45 g	10412	OS-1/8-NPT
1/4 NPT	1/4 NPT	1/4 NPT	6.5 mm	110 g	10413	OS-1/4-NPT

Accessories

Mounting frame NRRQ-2N				
	Short type code	LABS (PWIS) conformity	Part no.	Type
	NRRQ	VDMA24364-B1/B2-L	9365	NRRQ-2N

Socket head screws				
	Based on standard	LABS (PWIS) conformity	Part no.	Type
	DIN 84	VDMA24364-C1-L	208938	DIN 84-M6X12-4.8
			200568	DIN 84-M6X18-4.8

Mounting bracket NRW				
	Short type code	LABS (PWIS) conformity	Part no.	Type
	NRW	VDMA24364-B1/B2-L	11571	NRW-9/1,5-B