

Branching module MS12N-FRM

FESTO



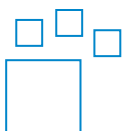
Characteristics

At a glance

- Grid dimension: 124 mm
- Support for additional modules
- Outlet at top and bottom
- Can be used as an intermediate distributor for varying air qualities
- Optionally with pressure sensor

Ordering data - modular system

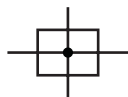
Link [ms12n-frm](#)



Configurable product

This product and all its product options can be ordered online via the configurator.

Function



Air distributor with 4 connections

Pneumatic connection

By installing connecting plates it is easier to replace the module if necessary (e.g. when using piping).

Type of mounting

[WP]

Mounting bracket basic design



- For wall mounting a single device or a service unit combination

Type code

001	Series	
MS	MS series	
002	Size	
12	Grid dimension 124 mm	
003	Thread type	
N	NPT thread	
004	Function	
FRM	Branching module	

005	Pneumatic connection, inch	
AQT	Sub-base NPT1	
AQU	Sub-base NPT1 1/4	
AQV	Sub-base NPT1 1/2	
AQW	Sub-base NPT2	
G	Module without connecting thread, without sub-base	
006	Type of mounting	
	Without mounting bracket	
WP	Mounting bracket basic design	

Datasheet

General technical data

Pneumatic connection, port 1	Manifold module
Pneumatic connection, port 2	Manifold module
Pneumatic connection, port 3	2 NPT
Pneumatic connection, port 4	1 NPT
Design	Branching module
Type of mounting	Inline installation With accessories
Mounting position	Any
Flow direction	From left to right

Nominal flow rate

Standard nominal flow rate in main flow direction 1->2 ¹⁾	25,000 ... 42,000 l/min
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¹⁾ Measured at p1 = 6 bar and p2 = 5 bar, Δp = 1 bar, depending on the selected connecting plates, which must be ordered separately → Accessories page: ms12-aq

Operating and environmental conditions

Pressure switch	None
Operating pressure	0 ... 20 bar
Operating medium	Compressed air to ISO 8573-1:2010 [-:-]
Ambient temperature	-10 ... 60°C
Media temperature	-10 ... 60°C
Storage temperature	-10 ... 60°C
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress

¹⁾ Further information www.festo.com/x/topic/crc

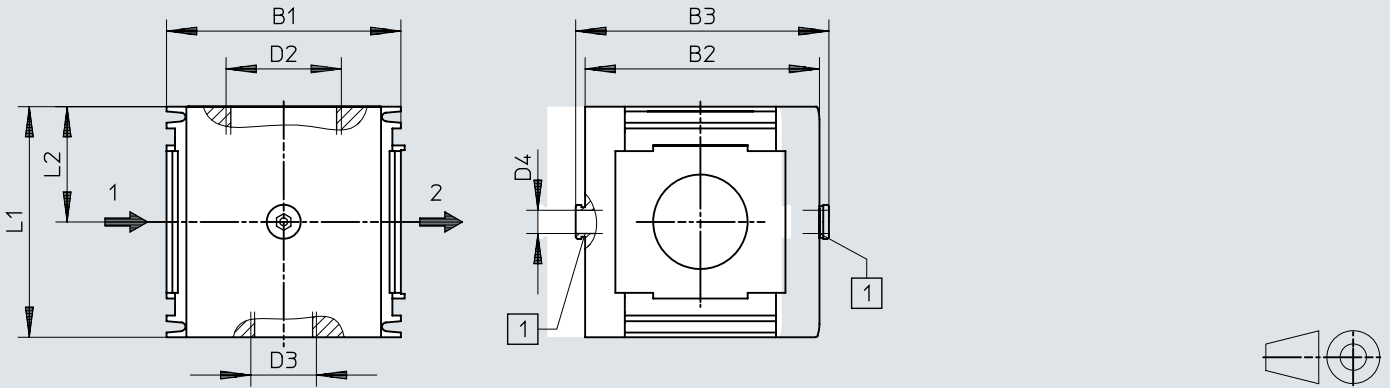
Materials

Material housing	Die-cast aluminium
Material seals	NBR
Material sub-base	Die-cast aluminium
Material module connector	Die-cast aluminium
Material mounting bracket	Die-cast aluminium
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Dimensions

Dimensions – Basic type, module without connecting thread, without connecting plate

Download CAD data www.festo.com

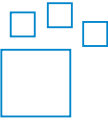


[1] Female thread G1/4 in housing, sealed with plug screw as standard

	B1 [inch]	B2 [inch]	B3 [inch]	D2	D3	D4	L1 [inch]	L2 [inch]
MS12N-FRM-G	4,88	4,88	5,28	2 NPT	1 NPT	1/4 NPT	4,80	2,40

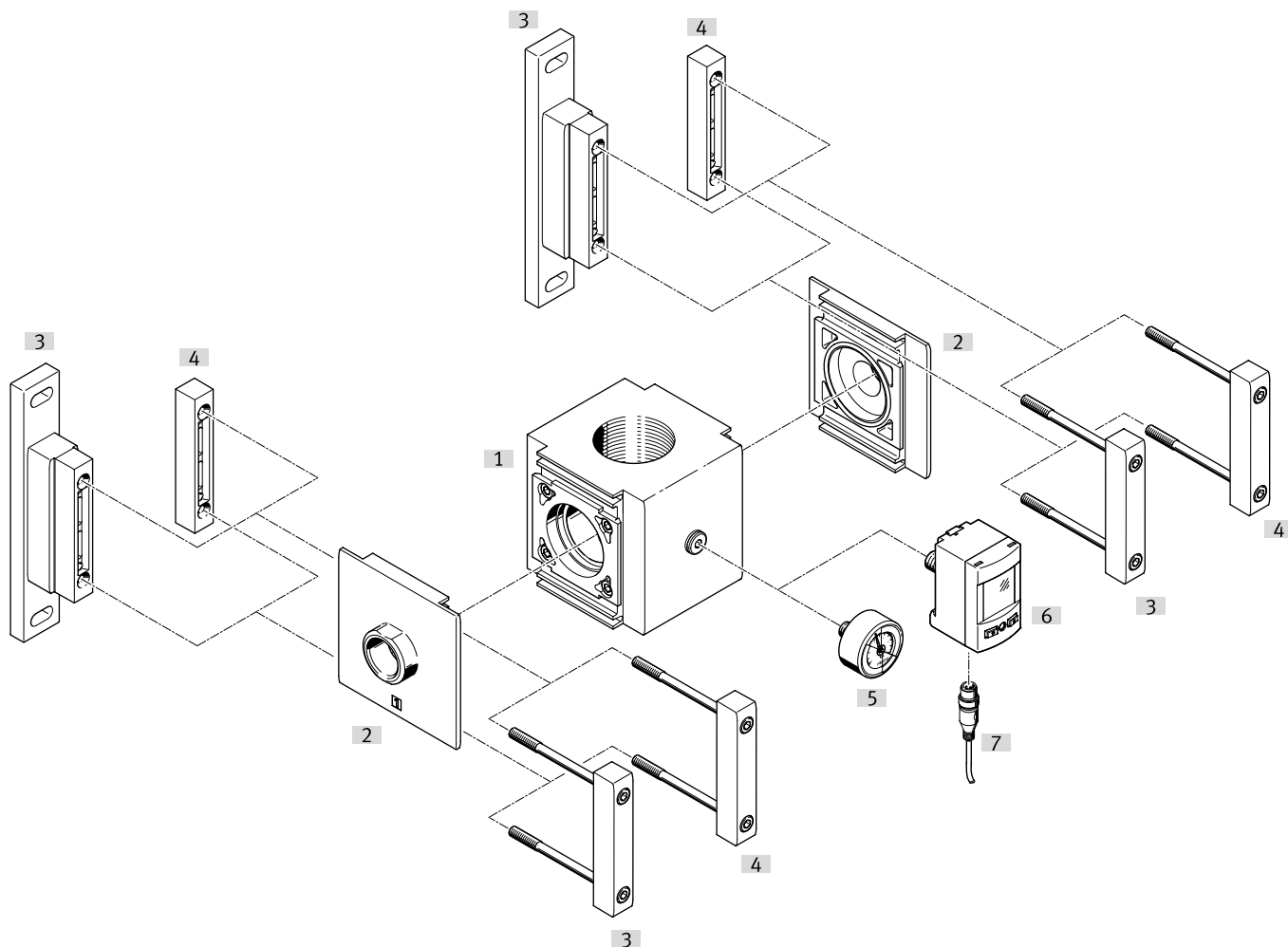
Ordering data

Ordering data						
	Pneumatic connection, port 1	Flow direction	Design	Product weight	Part no.	Type
	Manifold module	From left to right	Branching module	3,000 g	541682	MS12N-FRM-G

Ordering data – Modular product system			
	Design	Part no.	Type
	Branching module	535040	MS12N-FRM

Peripherals

Peripherals overview



Accessories		→ Link
Type/order code	Description	
[1] Branching module MS12N-FRM		ms12n-frm
[2] Connecting plateSET MS12-AQ...	Order code [AG...]; for device combinations	9
[3] Mounting bracket MS12-WP	Order code [WP]	8
[4] Module connector MS12-MV		8
[5] Pressure gauge MA		9
[6] Pressure sensor SPAU-...-T		8
[7] Connecting cable NEBA-M8...-LE4, NEBA-M12...-LE4		8

Accessories

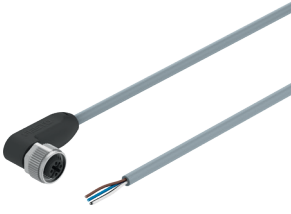
Module connector MS12-MV					
	Material plate	LABS (PWIS) conformity	Product weight	Part no.	Type
	Die-cast aluminium	VDMA24364-B1/B2-L	500 g	537134	MS12-MV

Mounting bracket MS12-WP					
	Material bracket	LABS (PWIS) conformity	Product weight	Part no.	Type
	Die-cast aluminium	VDMA24364-B1/B2-L	700 g	537133	MS12-WP

Pressure sensor SPAU-...-T						
	Pneumatic connection	Switching output	Electrical connection 1, connector system	Product weight	Part no.	Type
	R1/8	2 x PNP or 2 x NPN, switchable	M12x1, A-coded to EN 61076-2-101	70 g	8001206	SPAU-P10R-T-R18M-L-PNLK-PNVBA-M12D
			M8x1, A-coded, to EN 61076-2-104		8001203	SPAU-P10R-T-R18M-L-PNLK-PNVBA-M8D
	R1/4		M12x1, A-coded to EN 61076-2-101		8001208	SPAU-P10R-T-R14M-L-PNLK-PNVBA-M12D
			M8x1, A-coded, to EN 61076-2-104		8001209	SPAU-P10R-T-R14M-L-PNLK-PNVBA-M8D

Connecting cables NEBA, straight						
	Electrical connection 1, connector system	Electrical connection 2, connector system	Electrical connection 2, number of connections/cores	Cable length	Part no.	Type
	M12x1, A-coded to EN 61076-2-101	Open end	4	2.5 m	8078239	NEBA-M12G5-U-2.5-N-LE4
				5 m	8078240	NEBA-M12G5-U-5-N-LE4
	M8x1, A-coded, to EN 61076-2-104			2.5 m	8078227	NEBA-M8G4-U-2.5-N-LE4
				5 m	8078228	NEBA-M8G4-U-5-N-LE4

Accessories

Connecting cables NEBA, angled						
	Electrical connection 1, connector system	Electrical connection 2, connector system	Electrical connection 2, number of connections/cores	Cable length	Part no.	Type
	M12x1, A-coded to EN 61076-2-101	Open end	4	2.5 m	8078248	NEBA-M12W5-U-2.5-N-LE4
				5 m	8078249	NEBA-M12W5-U-5-N-LE4
	M8x1, A-coded, to EN 61076-2-104			2.5 m	8078233	NEBA-M8W4-U-2.5-N-LE4
				5 m	8078234	NEBA-M8W4-U-5-N-LE4

Pressure gauge MA						
	Pneumatic connection	Indicating range	Scale	Product weight	Part no.	Type
	G1/4	0 ... 16 bar	Double scale, Bar (external), psi (inner scale)	70 g	183901	MA-40-16-G1/4-EN
	R1/8		Single scale, Bar (external)	60 g	525726	MA-40-16-R1/8-E-RG
	R1/4		Double scale, Bar (external), psi (inner scale)	70 g	187080	MA-40-16-R1/4-EN
			Single scale, Bar (external)	75 g	525729	MA-50-16-R1/4-E-RG

Sub-base SET MS12-AQ...					
	Pneumatic connection, port 1	Material sub-base	Product weight	Part no.	Type
	1 NPT	Die-cast aluminium	1,300 g	537139	MS12-AQT
	1 1/4 NPT			537140	MS12-AQU
	1 1/2 NPT			537141	MS12-AQV
	2 NPT			537142	MS12-AQW