

Branching module MS12N-FRM

FESTO



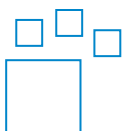
Characteristics

At a glance

- Width 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

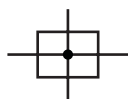
Link [ms12n-frm](#)



Configurable product

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

Function



Air distributor with 4 connections

Pneumatic connection

The installation of connection plates makes it easier to replace the module if necessary (e.g., when using piping).

Type of mounting

[WP]

Mounting bracket standard design



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

Type code

001	Series	
MS	MS series	
002	Size	
12	Width 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 standard design	

Datasheet

General technical data

Pneumatic connection 1	Manifold module
Pneumatic connection 2	Manifold module
Pneumatic connection 3	2 NPT
Pneumatic connection 4	1 NPT
Structural design	Branching module
Type of mounting	In-line installation With accessories
Mounting position	Any
Flow direction	From left to right

Standard 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, $\Delta p = 1$ bar, depending on the selected sub-bases, which must be ordered separately → Accessories page: ms12-aq

Operating and environmental conditions

Pressure switch	Without
Operating pressure	0 ... 20 bar
Operating medium	Compressed air as per ISO 8573-1:2010 [---]
Ambient temperature	-10 ... 60°C
Temperature of medium	-10 ... 60°C
Storage temperature	-10 ... 60°C
Corrosion resistance class (CRC) ¹⁾	2 - Moderate corrosion stress

1) Further information, visit www.festo.com/x/topic/kbk

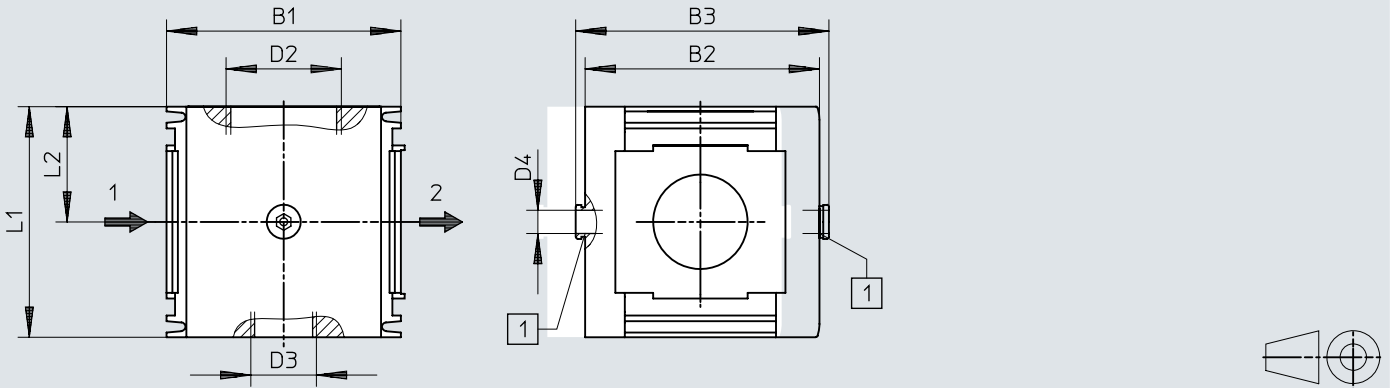
Materials

Housing material	Die-cast aluminum
Seals material	NBR
Material of sub-base	Die-cast aluminum
Module connector material	Die-cast aluminum
Material of mounting bracket	Die-cast aluminum
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Dimensions

Dimensions – Basic type, module without connecting thread, without sub-base

Download CAD data www.festo.com

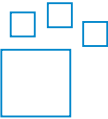


[1] Internal thread G1/4 in housing, sealed with plug screw as standard

	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

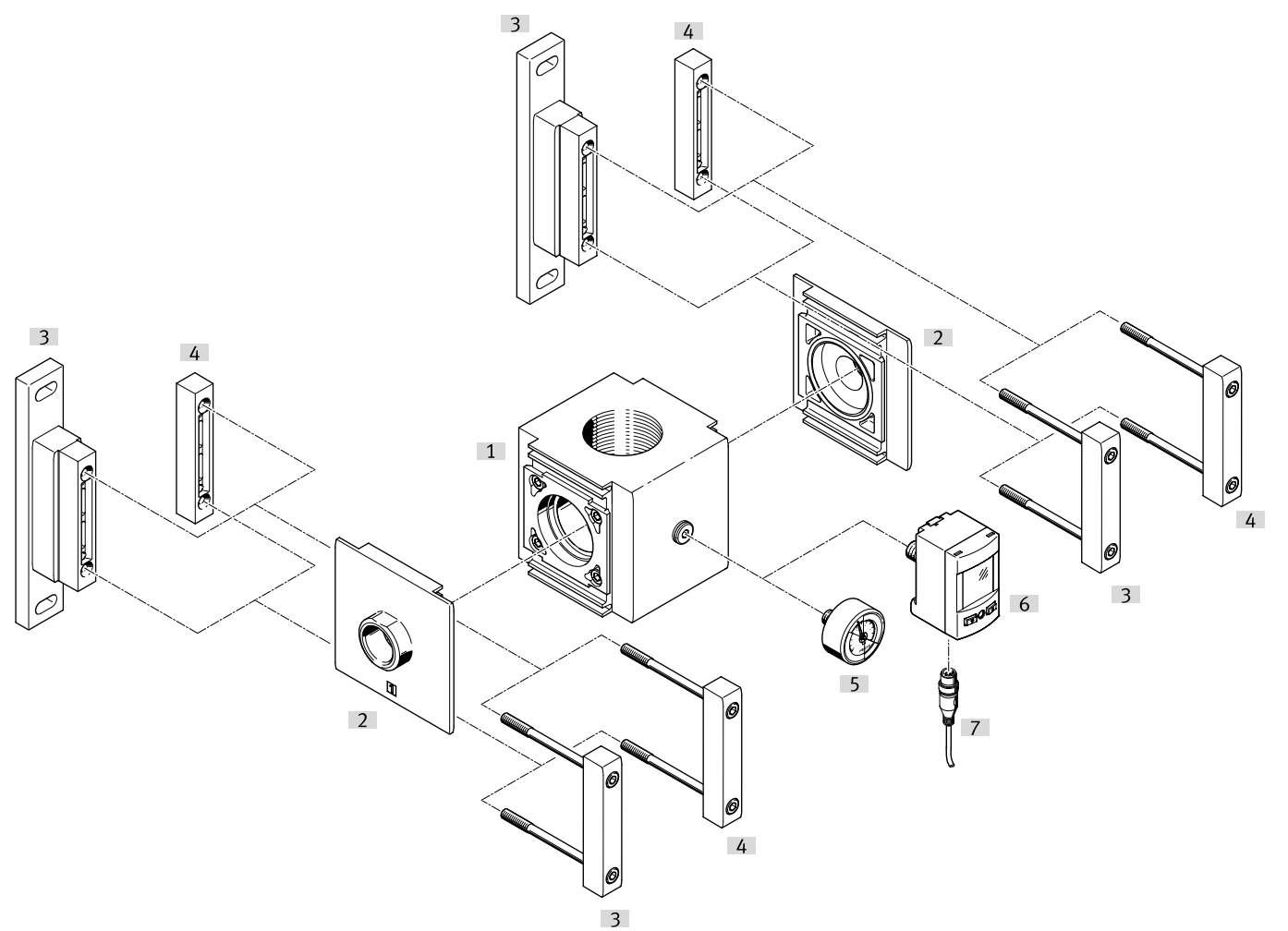
Ordering data

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

Ordering information – modular product system			
	Structural design	Part no.	Type
	Branching module	535040	MS12N-FRM

Peripherals overview

Peripherals overview



Accessories		→ Page/Internet
Type/order code	Description	
[1] Branching Module MS12N-FRM		ms12n-frm
[2] Sub-base SET MS12-AG...	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

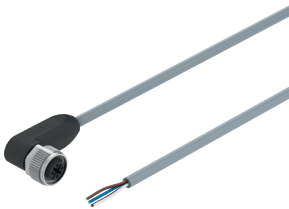
Module connector MS12-MV					
	Plate material	LABS (PWIS) conformity	Product weight	Part no.	Type
	Die-cast aluminum	VDMA24364-B1/B2-L	500 g	537134	MS12-MV

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

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

Connecting cables NEBA, straight						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/wires	Cable length	Part no.	Type
	M12x1 A-coded as per 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 as per 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, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/wires	Cable length	Part no.	Type
	M12x1 A-coded as per 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 as per 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	Display range	Scale	Product weight	Part no.	Type
	G1/4	0 ... 16 bar	Double scale, bar (außen), psi (inner scale)	70 g	183901	MA-40-16-G1/4-EN
	R1/8		Single scale, bar (außen)	60 g	525726	MA-40-16-R1/8-E-RG
	R1/4		Double scale, bar (außen), psi (inner scale)	70 g	187080	MA-40-16-R1/4-EN
			Single scale, bar (außen)	75 g	525729	MA-50-16-R1/4-E-RG

Sub-base SET MS12-AG...						
	Pneumatic connection 1	Material of sub-base	Product weight	Part no.	Type	
	1 NPT	Die-cast aluminum	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	