



Distributor blocks provide additional air outlets to create separate pressure or air quality branches, or to attach pressure sensors.

• Pneumatic connection: G1/4, G3/8, G1/2, G3/4

• Operating pressure: 0 ... 20 bar

• Flow rate: 3,200 ... 13,000 l/min

Product Range Overview								
Туре	Pneumatic connections		Pressure indicator					Reverse flow
	Body thread	Port plate	Cover plate (without pressure gauge)	Integrated MS pressure gauge	Adapter for pressure gauge G1/8	Adapter for pressure gauge G1/4	Pressure sensor with display	Flow direction from right to left
MS6		AG	VS	AG	A8	A4	AD	Z
FRM	G1/4, G3/8, G1/2	G1/4, G3/8, G1/2, G3/4			-			

Features

- Pneumatic manifold with 4 connections
- Can be used as an intermediate distributor for varying air qualities
- Attachment facility for auxiliary modules
- Outlet top and bottom
- An optional integrated non-return valve prevents the return flow e.g. of lubricated compressed air
- Optional pressure sensor with display

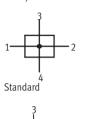
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→ www.festo.com/catalog/ms6-frm



Technical Data

ISO Symbol







General Technical Data						
Pneumatic connection 1, 2		G ¹ / ₄	G ³ / ₈	G½		
Pneumatic connection 3, 4		G½				
Operating pressure	[bar]	0 20 (Standard/With non-return functio	0 20 (Standard/With non-return function)			
		0 12 (Pressure switch X/Y/M12)				
		0 10 (Pressure sensor with display AD) 10 (Pressure sensor with display AD)			

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Standard Nominal Flow Rate qnN ¹⁾ [l/min]							
Pneumatic connection	G1/4	G3/8	G1/2				
Standard							
In main flow direction 1 — 2 3,300 8,350 13,000							
Outlet at top	6,570	7,800	6,700				
Outlet at bottom	6,800	8,750	8,000				
With non-return function							
In main flow direction 1	3,200	5,500	6,000				
Outlet at top	2,700	2,900	3,100				
Outlet at bottom	2,800	3,200	3,300				

¹⁾ Measured at p1 = 6 bar and p2 = 5 bar, $\Delta p = 1$ bar

Operating and Environmenta	l Conditions			
Variant		Standard/With non-return function	Pressure switch	Pressure sensor with display
			X/Y/M12	AD
Operating medium		Compressed air	Compressed air	Filtered compressed air, lubricated or
				unlubricated, filtration grade 40 μm
Ambient temperature	[°C]	-10 +60	-10 +60	0 +50
Temperature of medium	[°C]	-10 +60	-10 +60	0 +50
Storage temperature	[°C]	-10 +60	-10 +60	-10 +60
Assembly position		Any ²⁾		
Corrosion resistance class	CRC ³⁾	2		

²⁾ The Distribution Block must be mounted vertically when combined with a pressure sensor as condensate must not collect in the pressure sensor.

³⁾ Corrosion resistance class 2 according to Festo standard 940 070 Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.



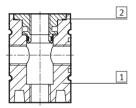
Technical Data

Weight [g]				
Standard	500			
With non-return function	400			
With pressure switch	778			
With pressure sensor	570			

• For spare parts go to: www.festo.com/en/spare_parts_service

Materials

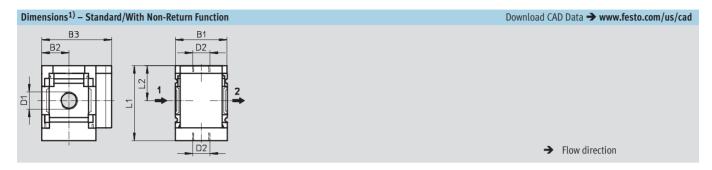
Sectional view (Standard)



Distribution block	
1 Housing	Die-cast aluminum
2 Threaded insert	Aluminum
Note on materials	Free of copper and PTFE
	(not with variants AG or AD)



Dimensional Drawings



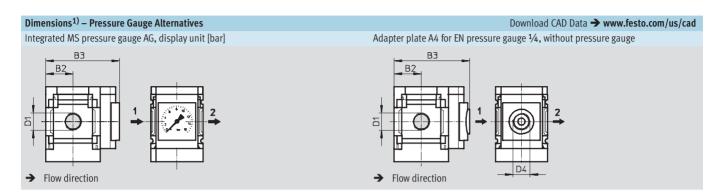
Туре	B1	B2	В3	D1	D2	L1	L2
MS6-FRM-1/4	62	31	76	G1/4	G ¹ /2	84.5	39
MS6-FRM-1/4-I	02	51				87.2	41.7
MS6-FRM-3/8	62	31	76	G3/8	G1/2	84.5	39
MS6-FRM-3/8-I	02					87.2	41.7
MS6-FRM-1/2	62	31	76	G ¹ / ₂	G1/2	84.5	39
MS6-FRM-1/2-I	02				0 /2	87.2	41.7

¹⁾ Dimensions are in millimeters, unless otherwise noted.

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.



Dimensional Drawings



Pressure sensor with display AD1 ... AD4 D6 B2 B3 Flow direction

Variant AD1:

SDE1-D10-G2-MS-L-P1-M8 with 3-pin plug M8x1, 1 switch output PNP

Variant AD2:

SDE1-D10-G2-MS-L-N1-M8 with 3-pin plug M8x1, 1 switch output NPN

Variant AD3:

SDE1-D10-G2-MS-L-PI-M12 with 4-pin plug M12x1, 1 switch output PNP and 4 ... 20 mA analog

Technical data SDE1 → www.festo.com/catalog/sde1

Variant AD4:

SDE1-D10-G2-MS-L-NI-M12 with 4-pin plug M12x1, 1 switch output NPN and 4 ... 20 mA analog

Туре	B2	В3	D1	D4	D6	L5	L6
MS6-FRM-1/4AG			G1/4				
MS6-FRM-3/8AG	31	77	G3/8	-	-	-	-
MS6-FRM-1/2AG			G ¹ / ₂				
MS6-FRM-1/4A4			G1/4				
MS6-FRM-3/8A4	31	78.5	G3/8	G1/4	-	-	_
MS6-FRM-1/2A4			G ¹ / ₂				
MS6-FRM-1/4AD1/AD2			G1/4				
MS6-FRM-3/8AD1/AD2	31	103	G3/8	-	M8x1	35.1	46.7
MS6-FRM-1/2AD1/AD2			G ¹ / ₂				
MS6-FRM-1/4AD3/AD4			G1/4				
MS6-FRM-3/8AD3/AD4	31	103	G3/8	-	M12x1	35.1	55.8
MS6-FRM-1/2AD3/AD4	1		G ¹ / ₂				

¹⁾ Dimensions are in millimeters, unless otherwise noted.

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.



Dimensional Drawings

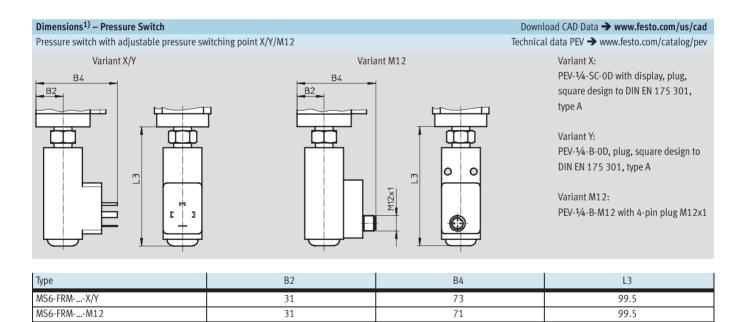
Dimensions¹⁾ – Pressure Gauge Alternatives Download CAD Data → www.festo.com/us/cad Pressure sensor with display AD5/AD6 Technical data SDE1 → www.festo.com/catalog/sde1 Variant AD5: В6 SDE1-D10-G2-H18-C-P1-M8 with 3-pin plug M8x1, 1 switch output PNP Variant AD6: SDE1-D10-G2-W18-L-2I-M12 with P 9 5-pin plug M12x1, 2 switch outputs PNP and 4 ... 20 mA analog Туре B5 В6 В7 D5 L4 L5 L6 MS6-FRM-...-AD5 M8 94 78 70 32.3 13.5 35.2

M12

103

87

MS6-FRM-...-AD6



¹⁾ Dimensions are in millimeters, unless otherwise noted.

¹⁾ Dimensions are in millimeters, unless otherwise noted.



Ordering Data – Pre-configured Products

Ordering Data			
Connection	Part No.	Туре	LT
Standard			
G1/4	529857	MS6-FRM-1/4 1)	1D
G3/8	529861	MS6-FRM-3/8 ¹⁾	1D
G ¹ / ₂	529853	MS6-FRM-1/2 1)	1D
With integrated non-return functi	ion		·
G1/4	536967	MS6-FRM-1/4-I ¹⁾	Q
G3/8	536968	MS6-FRM-3/8-I ¹⁾	Q
G ¹ / ₂	536969	MS6-FRM-1/2-I ¹⁾	Q
With pressure switch PEV-1/4-B-0	D (variant Y)		·
G1/4	529858	MS6-FRM-1/4-Y 1)	1D
G3/8	529862	MS6-FRM-3/8-Y 1)	1D
G1/2	529854	MS6-FRM-1/2-Y 1)	1D

LT = Lead time 1D typically ships same day/next day 1W typically ships within 1 week Q request a quote for lead time

¹⁾ Free of copper and PTFE



Ordering Data – Configurable Products

M Mandatory Da	Mandatory Data →									
Part No.	Series	Size	Function		Connection size					
527676	MS	6	FRM		1/4					
					3/8					
					1/2					
					AGB					
					AGC					
					AGD					
					AGE					
Order example										
527676	MS	6	- FRM	_	3/8					

01	Ordering Table								
Gr	id dimension [mm]	62	Conditions	Code	Enter code				
M	Part No.	527676							
	Series	Standard		MS	MS				
	Size	6		6	6				
	Function	Distribution block		-FRM	-FRM				
	Connection size	Body thread G1/4		-1/4					
		Body thread G3/8		-3/8					
		Body thread G1/2		-1/2					
		Port plate G1/4 (dimensions → 1006)		-AGB					
		Port plate G3/8 (dimensions → 1006)		-AGC					
		Port plate G½ (dimensions → 1006)		-AGD					
Ψ		Port plate G¾ (dimensions → 1006)		-AGE					

Transfer order co							
527676	Ī	MS	6	-	FRM	1 –	

Distribution Blocks MS6-FRM – Metric SeriesOrdering Data – Configurable Products



→	O Options					
	Additional function	Pressure gauge alternatives	Alternative pressure gauge scale	Pressure switch	Type of mounting	Reverse flow direction
	I	AG	PSI	x	WP	Z
		A4 AD1	MPA	Y M12	WPM WB	
		AD2 AD3				
		AD4 AD5				
		AD6				
-	-	AG	- PSI	- M12 -	WB -	Z

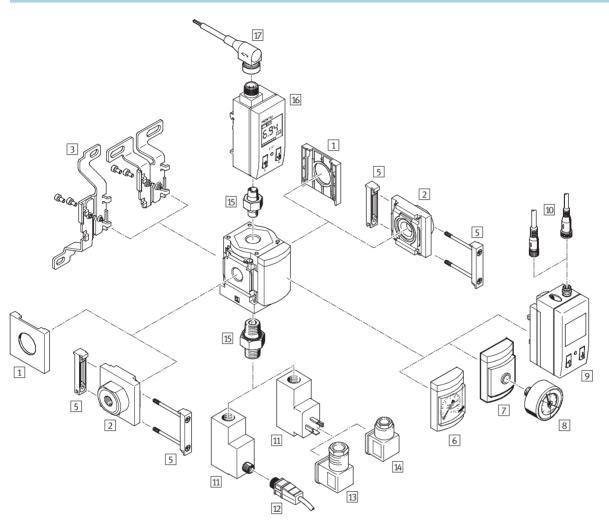
Ordering Table				
Grid dimension [mm]	62	Conditions	Code	Enter code
O Additional function	With integrated non-return function	1	-1	
Pressure gauge alternatives	MS pressure gauge, bar		-AG	
	Adapter plate for EN pressure gauge 1/4, without pressure gauge		-A4	
	Pressure sensor with display, plug M8, 1 switching output PNP, 3-pin	2	-AD1	
	Pressure sensor with display, plug M8, 1 switching output NPN, 3-pin	2	-AD2	
	Pressure sensor with display, plug M12, 1 switching output PNP, 4-pin,	2	-AD3	
	analog output 4 20 mA			
	Pressure sensor with display, plug M12, 1 switching output NPN, 4-pin,	2	-AD4	
	analog output 4 20 mA			
	Pressure sensor with display, plug M8, 1 switching output PNP, 3-pin	2	-AD5	
	Pressure sensor with display, plug M12, 2 switching outputs PNP, 5-pin,	2	-AD6	
	analog output 4 20 mA			
Alternative pressure gauge scale	psi	3	-PSI	
	MPa	3	-MPA	
Pressure switch	Pressure switch PEV with display, socket, EN 175301, type A, cube	4	-X	
	Pressure switch PEV without display, socket, EN 175301, type A, cube	4	-Y	
	Pressure switch PEV without display, socket, round, M12, 4-pin	4	-M12	
Type of mounting	Mounting bracket (dimensions → 1007)	5	-WP	
	Mounting bracket (dimensions → 1007)	5	-WPM	
	Mounting bracket (dimensions → 1004)		-WB	
Reverse flow direction	Flow direction from right to left		-Z	

1 I	Not with pressure gauge alternatives AD 5 or AD 6	4 X, Y, M12	Max. permissible supply pressure P1 = 12 bar.
2 AD1 AD6	Measuring range max. 10 bar		Not with pressure gauge alternatives AD5 or AD6
3 PSI, MPA	Only with pressure gauge AG	5 WP, WPM	Only with port plate AGB, AGC, AGD or AGE

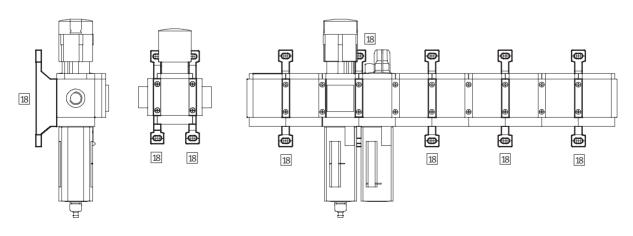
Tra	nsfer order code						
-		-	-	-[-	-	



Mounting Attachments and Accessories



Single unit and combination unit mounting brackets.





Accessories Overview

	Single unit		Combination unit ->	3.1-1	→ Page
	without port plate	with port plate	without port plate	with port plate	
Cover cap	_		_		1005
MS6-END	•	-	•	-	
Port plate		_		_	1006
MS6-AG	_	•	_	•	
Mounting bracket	_	_			1004
MS6-WB	•	•	_	-	
Body connector		_	_	_	1006
MS6-MV	-	•	•	•	
MS pressure gauge	_	 _	_	 _	1000
AG	•	•	•	•	
Adapter for EN pressure gauge 1/4	_	 _	_	 _	1000
A4	•	•	•	•	
Pressure gauge	_	_	_	_	1011
MA	•	•	•	-	
Pressure sensor SDE1MS					1000
AD1 AD4	•	•	•	-	
Plug socket with cable	_	_	_	_	1011
SIM-M8-3/SIM-M12-4	•	•	•	•	
Pressure switch PEV	_	_	_	_	1000
Pressure switch PEV X/Y/M12	•	•	•	-	
Plug socket with cable	_	_	_	_	1011
SIM-M12-4	•	•	•	•	
Angled socket	_	_	_	_	1010
PEV-1/4-WD-LED	•	•	•	•	
Plug socket	_	_	_	_	1010
MSSD-C-4P	•	•	•	•	
Double nipple	_	_	_	_	1010
ESK	•	•	•	•	
Pressure sensor SDE1H18/W18					1000
AD5/AD6	•	•	•	-	
Plug socket with cable					1011
SIM-M8-3/SIM-M12-5	•	•	•	•	
Mounting bracket		1		1	1007
MS6-WP/WPB/WPM	-	•	•	•	



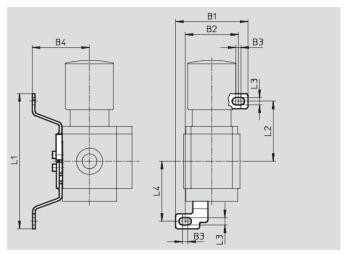
Accessories

3 Mounting bracket MS6-WB

For wall mounting

Material: Steel





Dimensions a	Dimensions and Ordering Data														
B1	B2	В3	B4	L1	L2	L3	L4	Weight [g]	Part No.	Туре					
79.4	61.9	4.5	55	157.6	71	6.6	71	121	532196	MS6-WB					

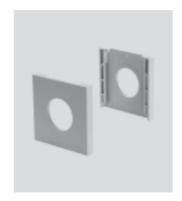
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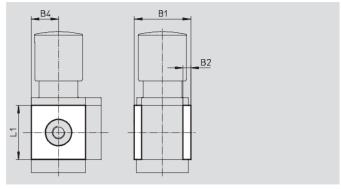
Accessories

1 Cover cap MS6-END

• Can be used to cover the body sides of the first and last module if port plates are not used.

Material: Reinforced polyamide Free of copper and PTFE





Dimensions and Ordering Data	Dimensions and Ordering Data													
B1	B2	B4	L1	Part No. Type										
67	8	31	62	538780 MS6-END										

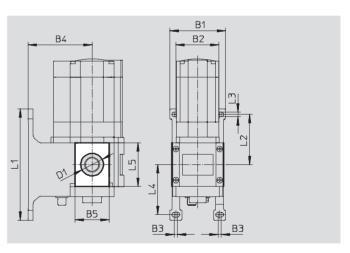
Mounting plate MS6-AEND

(order code: WBE; scope of delivery includes mounting bracket MS6-WPB)

 In combination with mounting bracket MS-WP or MS-WPB for mounting an individual unit on a wall with body thread

Material: Reinforced polyamide Conforms to RoHS Free of copper and PTFE





Dimens	Dimensions and Ordering Data														
B1	B2	В3	B4		B5	D1	L1	L2	L3	L4	L4 L5		Weight	Part No.	Туре
			WP	WPB		Ø							[g]		
79	62	4.5	54	90.5	48.4	32	158	71	6.6	71	62	2	17	535408	MS6-AEND

¹⁾ Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.



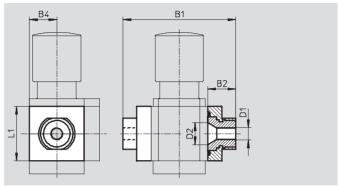
Accessories

2 Port plate MS6-AG...

- Adapter for pneumatic connection
- MS6-AGE for implementing threaded connection G3/4

Material: Aluminum





Dimensions and C	Ordering Data							
B1	B2	B4	D1	D2	L1	Weight [g]	Part No.	Туре
			G1/4				526080	MS6-AGB
115	26.5	31	G3/8	24	62	300	526081	MS6-AGC
115	20.5	31	G ¹ / ₂	24	02	300	526082	MS6-AGD
			G3/4				526083	MS6-AGE

5 Body connector MS...-MV

• For connecting modules

Material:

Stainless steel/polyacetate



Ordering Data		
Weight	Part No.	Туре
[g]		
54	532799	MS6-MV



Accessories

18 Mounting Bracket MS6-WP...

Suggested placement of wall mounting brackets when mounting air preparation combinations

1 unit: 62 mm with WP, WPB

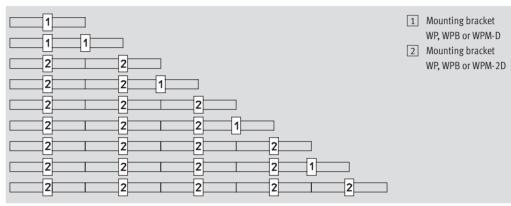
69 mm with WPM-D

Number of units

1 2 3 4 5 6 7

2 units: 124 mm with WP, WPB

138 mm with WPM-2D

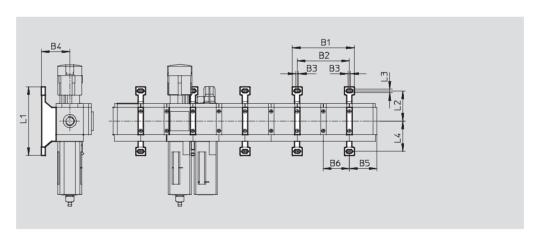


9

10

8

Mounting dimensions



Туре	B1	B2	В3	B4	B5	В6	L1	L2	L3	L4
MS6-WP	1 / 1	124	4.5	54	64.5	62	158	71		71
MS6-WPB	141	124	4.5	90.5	04.5	62	136	/1	6.6	/ 1
MS6-WPMD	168	138	17.5	54	65.5	69	98.6	41.3		41.3



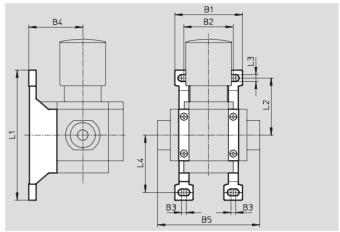
Accessories

Mounting bracket MS6-WP

- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- In combination with mounting plate MS-AEND or for mounting an individual unit with body thread on a wall
- For pressure regulator LRB with angled outlet block B... at rear

Material: Die-cast aluminum





Dimensions	Dimensions and Ordering Data										
B1	B2	В3	B4	B5	L1	L2	L3		Weight [g]	Part No.	Туре
79	62	4.5	54	115	158	71	6.6	71	76	532195	MS6-WP

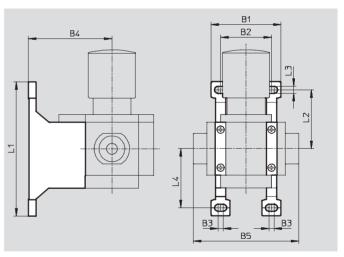
Mounting bracket MS6-WPB

- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- In combination with mounting plate MS-AEND or for mounting an individual unit with direct thread on a wall
- Provides large wall gap for pressure regulator

Material:

Die-cast aluminum





Dimensions	imensions and Ordering Data												
B1	B2	В3	B4	B5	L1	L2	L3	L4	Weight [g]	Part No.	Туре		
79	62	4.5	90.5	115	158	71	6.6	71	115	526074	MS6-WPB		

Accessories

FESTO

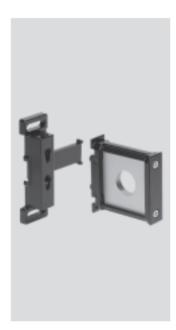
Mounting bracket MS6-WPM

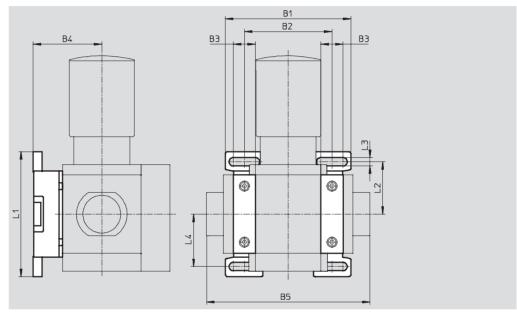
- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- Speedy attachment and detachment
- For installation of modules with regulating knob pointing downwards

The distance piece D or 2D (designated in the type code) is included in the scope of delivery and ensures the correct clearance

Material:

Die-cast aluminum





Dimension	Dimensions and Ordering Data											
B1	B2	B3	B4	B5	L1	L2	L3	L4	Clearance	Weight [g]	Part No.	Туре
99	69	17.5	54	129	98.6	41.3	6.6	41.3	62	144	526073	MS6-WPM-D
168	138	17.5	54	198	70.0	41.5	0.0	41.5	124	154	532186	MS6-WPM-2D

Body connector MS6-MVM

• For installation of modules with regulating knob pointing downwards

Material:

Die-cast aluminum



Ordering Data		
Size	Part No.	Туре
MS6	532801	MS6-MVM



Accessories

11 Ordering Data	– Pressure Switch PEV				Techni	cal data → www.festo.com/catalog/pev
	Pneumatic connection	Pressure switching	Electrical connection	Order	Part No.	Туре
		point		code		
	G1/4	Adjustable	Plug, square design to	Х	161760	PEV-1/4-SC-0D
		with visual scale	DIN EN 175 301, type A			
(9);	G1/4	Adjustable	Plug, square design to	Υ	175250	PEV-1/4-B-0D
			DIN EN 175 301, type A			
	G ¹ / ₄	Adjustable	Plug M12x1, 4-pin	M12	192488	PEV-1/4-B-M12

16 Ordering Data	Ordering Data − Pressure Sensor SDE1 Technical data → www.festo.com/catalog/sde1									
	Pneumatic connection	Electrical output	Electrical	Display	Order	Part No.	Туре			
			connection		code					
Pressure sensor SI	Pressure sensor SDE1 for Distribution Block MS-FRM, pressure measuring range 0 10 bar, relative pressure measurement									
	Female thread G1/8	1 switch output PNP	M8x1,	LCD	AD5	192030	SDE1-D10-G2-H18-C-P1-M8			
			3-pin							
		2 switch outputs PNP and	M12x1,	Illuminated	AD6	534062	SDE1-D10-G2-W18-L-2I-M12			
		4 20 mA analog	5-pin	LCD						

13 Ordering Data	13 Ordering Data − Angled Socket PEV Technical data → www.festo.com/catalog/pe									
	Description	Operating voltage range	Electrical connection	Switching status	Part No.	Туре				
				display						
	for PEV-1/4OD	15 30 V DC	4-pin	Yellow LED	461271	DEV 1/ WE LED 2/				
	101 PEV-1/4UD	15 50 V DC	4-piii	YELLOW LED	164274	PEV-1/4-WD-LED-24				
	10f PEV-74UD	≤ 230 V AC	4-pin	Yellow LED	164274	PEV-1/4-WD-LED-230				

14 Ordering Data	a – Plug Socket MSSD				Technica	ıl data → www.festo.com/catalog/mssd
	Description	Operating voltage range	Electrical connection	Type of mounting cable	Part No.	Туре
				connection		
	for PEV-1/4OD	≤ 250 V AC/DC	3-pin	Clamping screws	171157	MSSD-C-4P

15 Ordering Data	15 Ordering Data – Double Nipple ESK										
	Description	Pneumatic connection		Part No.	Туре						
	Adjustable for angular compensation	R ¹ /8	R ¹ / ₄	534151	ESK-1/8-1/4						
	For retro-fitting pressure switch PEV or pressure sensor SDE1 to distribution block	R1/4	R1/4	151521	ESK-1/4-1/4						
	MS-FRM		R ¹ / ₂	534153	ESK-1/4-1/2						



Accessories

17 Ordering Data	a – Plug Socket with Cable SIM-M8		Technical c	lata → www.festo.com/catalog/sim-m8
	Electrical connection	Cable length	Part No.	Туре
		[m]		
	M8x1, 3-pin	2.5	159420	SIM-M8-3GD-2,5-PU
		5	159421	SIM-M8-3GD-5-PU
		10	192964	SIM-M8-3GD-10-PU
	M8x1, 3-pin	2.5	159422	SIM-M8-3WD-2,5-PU
		5	159423	SIM-M8-3WD-5-PU
		10	192965	SIM-M8-3WD-10-PU

Ordering Data -	Plug Socket with Cable SIM-M12		Technical data → www.festo.com/catalog/sim-m12
	Electrical connection	Cable length [m]	Part No. Type
	M12x1, 4-pin	5	164259 SIM-M12-4GD-5-PU
9	M12x1, 5-pin	2.5	175715 SIM-M12-5GD-2,5-PU
1		5	175716 SIM-M12-5GD-5-PU
	M12x1, 4-pin	5	164258 SIM-M12-4WD-5-PU

8 Ordering Data											
	Nominal size	Pneumatic connection	Indicating range		Part No.	Туре					
			[bar]	[psi]							
	Pressure gauge MA, DIN EN 837-1										
	40	G1/4	0 16	0 232	183901	MA-40-16-G ¹ / ₄ -EN					
	Pressure gauge MA, DIN	EN 837-1, with red-green									
	50	R ¹ / ₄	0 16		525729	MA-50-16-R ¹ / ₄ -E-RG					

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Distributor blocks provide additional air outlets to create separate pressure or air quality branches, or to attach pressure sensors.

• Pneumatic connection: 1/4 NPT, 3/8 NPT, 1/2 NPT, 3/4 NPT

• Operating pressure: 0 ... 294 psi

• Flow rate: 113,0 ... 458,9 scfm

Product Rang	ge Overview									
Туре	Pneumatic connections	Pneumatic connections			Pressure indicator					
Medi	Body thread	Port plate	Gover plate (without pressure gauge)	Integrated MS pressure gauge	Adapter for pressure gauge 1/8 NPT	Adapter for pressure gauge 1/4 NPT	Pressure sensor with display	Flow direction from right to left		
MS6N		AG	VS	AG	A8	A4	AD	Z		
FRM	1/4 NPT, 3/8 NPT, 1/2 NPT	1/4 NPT, 3/8 NPT, 1/2 NPT, 3/4 NPT			-					

Features

- Pneumatic manifold with 4 connections
- Can be used as an intermediate distributor for varying air qualities
- Attachment facility for auxiliary modules
- Outlet top and bottom
- An integrated non-return valve prevents the return flow e.g. of lubricated compressed air
- Optional pressure sensor with display

Contents	
Technical Data	→ 1014
Dimensional Drawings	→ 1016
Ordering Data	→ 1019
Accessories	→ 1022

→ www.festo.com/catalog/ms6n-frm

2007/10 - Subject to change - MS Series



Technical Data

ISO Symbol





With integrated non-return function



General Technical Data							
Pneumatic connection 1, 2		1/4 NPT	3/8 NPT	1/2 NPT			
Pneumatic connection 3, 4		1/2 NPT					
Operating pressure	[psi]	0 294 (Standard/With non-return function)					
		0 176 (Pressure switch X/Y/M12)					
		0 147 (Pressure sensor with display AD)					

Standard Nominal Flow Rate qnN ¹⁾ [scfm]								
Pneumatic connection	1/4 NPT	3/8 NPT	1/2 NPT					
Standard								
In main flow direction 1 2	116.5	294.8	458.9					
Outlet at top	231.9	275.3	236.5					
Outlet at bottom	240.0	308.9	282.4					
With non-return function								
In main flow direction 1 2	113.0	194.2	211.8					
Outlet at top	95.3	102.4	109.4					
Outlet at bottom	98.8	113.0	116.5					

¹⁾ Measured at p1 = 88 psi and p2 = 74 psi, Δp = 15 psi

Operating and Environmental Conditions									
Variant		Standard/With non-return function	Pressure switch X/Y/M12	Pressure sensor with display AD					
Operating medium		Compressed air	Compressed air	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm					
Ambient temperature	[°F]	14 140	14 140	32 122					
Temperature of medium	[°F]	14 140	14 140	32 122					
Storage temperature	[°F]	14 140	14 140	14 140					
Assembly position		Any ²⁾	<u>.</u>	•					
Corrosion resistance class	CRC ³⁾	2							

²⁾ The Distribution Block must be mounted vertically when combined with a pressure sensor as condensate must not collect in the pressure sensor.

³⁾ Corrosion resistance class 2 according to Festo standard 940 070 Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.



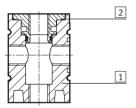
Technical Data

Weight [lb]						
Standard	1.00					
With non-return function	0.80					
With pressure switch	1.56					
With pressure sensor	1.14					

• For spare parts go to: www.festo.com/en/spare_parts_service

Materials

Sectional view (Standard)



Distribution block							
1 Housing	Die-cast aluminum						
2 Threaded insert	Aluminum						
Note on materials	Free of copper and PTFE						
	(not with variants AG or AD)						



Dimensional Drawings

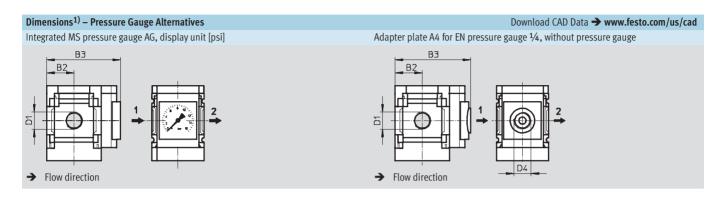


Туре	B1	B2	В3	D1	D2	L1	L2
MS6N-FRM-1/4	2.44	1.22	2.99	1/4 NPT	1/2 NPT	3.33	1.54
MS6N-FRM-1/4-I	2.44	1.22	2.99	74 111 1	72 NF 1	3.43	1.64
MS6N-FRM-3/8	2.44	1.22	2.99	3/8 NPT	1/2 NPT	3.33	1.54
MS6N-FRM-3/8-I	2.44	1.22	2.99	78 NF1	72 NF1	3.43	1.64
MS6N-FRM-1/2	2.44	1.22	2.99	1/2 NPT	1/2 NPT	3.33	1.54
MS6N-FRM-1/2-I	2.44	1.22	2.99	72 NF 1	72 NF 1	3.43	1.64

¹⁾ Dimensions are in inches, unless otherwise noted.



Dimensional Drawings



Pressure sensor with display AD1 ... AD4 D6 B2 B3 Flow direction

Variant AD1:

SDE1-D10-G2-MS-L-P1-M8 with 3-pin plug M8x1, 1 switch output PNP

Variant AD2:

SDE1-D10-G2-MS-L-N1-M8 with 3-pin plug M8x1, 1 switch output NPN

Variant AD3:

SDE1-D10-G2-MS-L-PI-M12 with 4-pin plug M12x1, 1 switch output PNP and 4 ... 20 mA analog

Technical data SDE1 → www.festo.com/catalog/sde1

Variant AD4:

SDE1-D10-G2-MS-L-NI-M12 with 4-pin plug M12x1, 1 switch output NPN and 4 ... 20 mA analog

Туре	B2	В3	D1	D4	D6	L5	L6
MS6N-FRM-1/4AG			½ NPT				
MS6N-FRM-3/8AG	1.22	3.03	3/8 NPT	-	-	-	_
MS6N-FRM-1/2AG			½ NPT				
MS6N-FRM-1/4A4			1/4 NPT				
MS6N-FRM-3/8A4	1.22	3.09	3/8 NPT	1/4 NPT	-	_	-
MS6N-FRM-1/2A4			½ NPT				
MS6N-FRM-1/4AD1/AD2			1/4 NPT				
MS6N-FRM-3/8AD1/AD2	1.22	4.06	3/8 NPT	-	M8x1	1.38	1.84
MS6N-FRM-1/2AD1/AD2			½ NPT				
MS6N-FRM-1/4AD3/AD4			1/4 NPT				
MS6N-FRM-3/8AD3/AD4	1.22	4.06	3/8 NPT	-	M12x1	1.38	2.20
MS6N-FRM-1/2AD3/AD4			½ NPT				

¹⁾ Dimensions are in inches, unless otherwise noted.

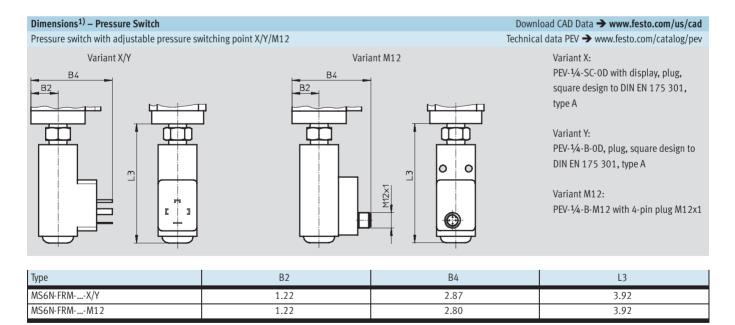


Dimensional Drawings

Download CAD Data → www.festo.com/us/cad Pressure sensor with display AD5/AD6 Technical data SDE1 → www.festo.com/catalog/sde1 Variant AD5: SDE1-D10-G2-H18-C-P1-M8 with 3-pin plug M8x1, 1 switch output PNP Variant AD6: SDE1-D10-G2-W18-L-2I-M12 with 5-pin plug M12x1, 2 switch outputs PNP and 4 ... 20 mA analog

Туре	B5 B6		B7	D5	L4	L5	L6	
MS6N-FRMAD5	1 27	0.53	1 30	M8	3.70	3.07	2.76	
MS6N-FRMAD6	1.27	0.55	1.59	M12	4.06	3.43	2./6	

¹⁾ Dimensions are in inches, unless otherwise noted.



¹⁾ Dimensions are in inches, unless otherwise noted.



Ordering Data – Pre-configured Products

Ordering Data			
Connection	Part No.	Туре	LT
Standard			
1/4 NPT	531965	MS6N-FRM-1/4 1)	1D
3/8 NPT	531967	MS6N-FRM-3/8 ¹⁾	1D
1/2 NPT	531966	MS6N-FRM-1/2 ¹⁾	1D
With integrated non-return function			
1/4 NPT	536977	MS6N-FRM-1/4-I ¹⁾	Q
3/8 NPT	536978	MS6N-FRM-3/8-I ¹⁾	Q
1/2 NPT	536979	MS6N-FRM- ¹ / ₂ -I ¹⁾	Q
With pressure switch PEV-1/4-B-0D (varian	: Y)		
1/4 NPT	531971	MS6N-FRM-1/4-Y 1)	1D
3/8 NPT	531973	MS6N-FRM-3/8-Y 1)	1D
1/2 NPT	531972	MS6N-FRM-1/2-Y 1)	1D

LT = Lead time 1D typically ships same day/next day 1W typically ships within 1 week Q request a quote for lead time

2007/10 – Subject to change – MS Series

¹⁾ Free of copper and PTFE



Ordering Data – Configurable Products

M Mandatory D	M Mandatory Data									
Part No.	Series	Size	Thread		Function		Connection size			
		1.								
527677	MS	6	N		FRM		1/4 3/8			
							1/ ₂ AQN			
							AQP			
							AQR AQS			
Order example										
527677	MS	6	N	-	FRM	-	3/8			

0r	dering Table					
Gr	id dimension [mm]	62	Conditions	Code		Enter code
M	Part No.	527677				
	Series	Standard		MS	ı	MS
	Size	6		6		6
	Thread	NPT thread		N		N
	Function	Distribution block		-FRM		-FRM
	Connection size	Body thread 1/4 NPT		-1/4		
		Body thread 3/8 NPT		-3/8		
		Body thread ½ NPT		-1/2		
		Port plate ¼ NPT (dimensions → 1026)		-AQN		
		Port plate 3/8 NPT (dimensions → 1026)		-AQP		
		Port plate ½ NPT (dimensions → 1026)		-AQR		
Ψ		Port plate ¾ NPT (dimensions → 1026)		-AQS		

Trans	fer	ord	ler	cod	e
-------	-----	-----	-----	-----	---

527677	MS	6	N	-	FRM	-	

Distribution Blocks MS6N-FRM – Inch SeriesOrdering Data – Configurable Products



Additional function	Pressure gauge alternatives	Alternative pressure gauge scale	Pressure switch	Type of mounting	Reverse flow directio
	AG	BAR	Х	WP	Z
	A4	MPA	Υ	WPM	
	AD1		M12	WB	
	AD2				
	AD3				
	AD4				
	AD5				
	AD6				
	– AG	- BAR	- M12	– WB	- Z

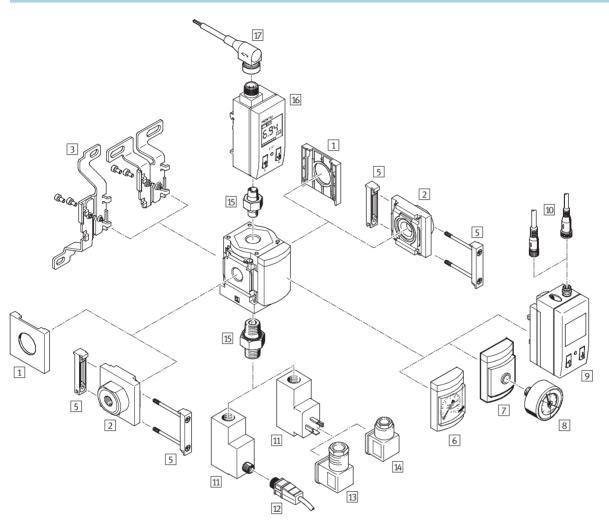
10	dering Table					
Gr	id dimension [mm]	62	Conditions	Code		Enter code
0	Additional function	With integrated non-return function	1	-1		
	Pressure gauge alternatives	MS pressure gauge, psi		-AG	Ī	
		Adapter plate for EN pressure gauge 1/4, without pressure gauge		-A4		
		Pressure sensor with display, plug M8, 1 switching output PNP, 3-pin	2	-AD1		
		Pressure sensor with display, plug M8, 1 switching output NPN, 3-pin	2	-AD2		
		Pressure sensor with display, plug M12, 1 switching output PNP, 4-pin,	2	-AD3		
		analog output 4 20 mA				
		Pressure sensor with display, plug M12, 1 switching output NPN, 4-pin,	2	-AD4		
		analog output 4 20 mA				
		Pressure sensor with display, plug M8, 1 switching output PNP, 3-pin	2	-AD5		
		Pressure sensor with display, plug M12, 2 switching outputs PNP, 5-pin,	2	-AD6		
		analog output 4 20 mA				
	Alternative pressure gauge scale	bar	3	-BAR		
		MPa	3	-MPA		
	Pressure switch	Pressure switch PEV with display, socket, EN 175301, type A, cube	4	-X		
		Pressure switch PEV without display, socket, EN 175301, type A, cube	4	-Y		
		Pressure switch PEV without display, socket, round, M12, 4-pin	4	-M12		
	Type of mounting	Mounting bracket (dimensions → 1027)	5	-WP		
		Mounting bracket (dimensions → 1027)	5	-WPM		
		Mounting bracket (dimensions → 1024)		-WB		
	Reverse flow direction	Flow direction from right to left		-Z		

1 1	Not with pressure gauge alternatives AD5 or AD6	4 X, Y, M12	Max. permissible supply pressure P1 = 176 psi.
2 AD1 AD6	Measuring range max. 147 psi		Not with pressure gauge alternatives AD5 or AD6
3 BAR, MPA	Only with pressure gauge AG	5 WP, WPM	Only with port plate AQN, AQP, AQR or AQS

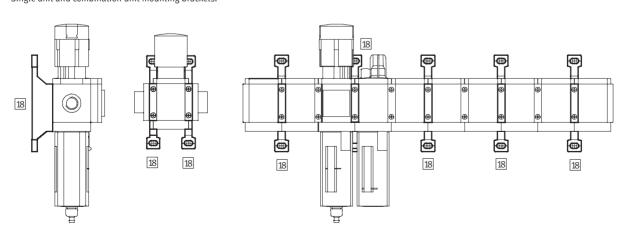
Tra	nsfer order code						
- [-	-	- [-	-	



Mounting Attachments and Accessories



Single unit and combination unit mounting brackets.





Accessories Overview

	Single unit		Combination unit ->	3.1-49	→ Page
	without port plate	with port plate	without port plate	with port plate	
Cover cap	_		_		1025
MS6-END	•	-	•	-	
Port plate		_		_	1026
MS6N-AQ	-	•	_	•	
Mounting bracket	_	_			1024
MS6-WB	•	•	_	-	
Body connector		_	_	_	1026
MS6-MV	-	•	•	•	
MS pressure gauge	_	_	_	_	1020
AG	•	•	•	•	
Adapter for EN pressure gauge 1/4	_	_	_	_	1020
A4	•	•	•	•	
Pressure gauge	_	_	_	_	1031
MA	•	•	•	•	
Pressure sensor SDE1MS	_	_	_	_	1020
AD1 AD4	•	•	•	•	
Plug socket with cable	_	•			1031
SIM-M8-3/SIM-M12-4	•	•	•	-	
Pressure switch PEV	_	_	_	_	1020
X/Y/M12	•	•	•	•	
Plug socket with cable	_	_	_	_	1031
SIM-M12-4	•	•	•	•	
Angled socket	_	_	_	_	1030
PEV-1/4-WD-LED	•	•	•	•	
Plug socket	•	•		•	1030
MSSD-C-4P	-	_	•	_	
Double nipple	•	•			1030
ESK	•	•	•	•	
Pressure sensor SDE1H18/W18	3 _	_	_	_	1020
AD5/AD6		•	•	•	
Plug socket with cable	_	_	_	_	1031
SIM-M8-3/SIM-M12-5	•	•	•	•	
Mounting bracket		<u> </u>	_	<u> </u>	1027
MS6-WP/WPB/WPM	_	•	•	-	

2007/10 – Subject to change – MS Series

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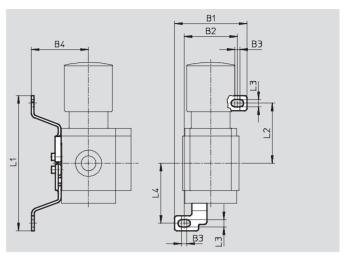
Accessories

3 Mounting bracket MS6-WB

For wall mounting

Material: Steel





Dimensions a	Dimensions and Ordering Data														
B1	B2	В3	B4	L1	L2	L3		Weight [lb]	Part No.	Туре					
3.13	2.44	0.18	2.17	6.20	2.80	0.26	2.80	0.24	532196	MS6-WB					

FESTO

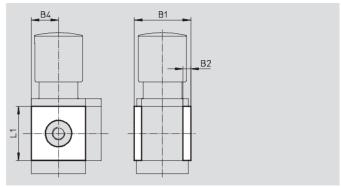
Accessories

1 Cover cap MS6-END

• Can be used to cover the body sides of the first and last module if port plates are not used.

Material: Reinforced polyamide Free of copper and PTFE





Dimensions and Ordering Data					
B1	B2	B4	L1	Part No. Type	
2.64	0.31	1.22	2.44	538780 MS6-END	

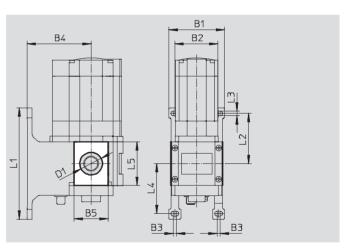
Mounting plate MS6-AEND

(order code: WBE; scope of delivery includes mounting bracket MS6-WPB)

 In combination with mounting bracket MS-WP or MS-WPB for mounting an individual unit on a wall with body thread

Material: Reinforced polyamide Conforms to RoHS Free of copper and PTFE





Dimens	Dimensions and Ordering Data														
B1	B2	В3	B ₄		B5	D1	L1	L2	L3	L4	L5	CRC ¹⁾	Ü	Part No.	Туре
			WP	WPB		Ø							[lb]		
3.11	2.44	0.18	2.13	3.56	1.91	1.26	6.22	2.80	0.26	2.80	2.44	2	0.03	535408	MS6-AEND

¹⁾ Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.



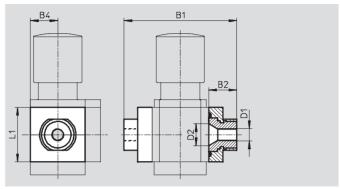
Accessories

2 Port plate MS6N-AQ...

- Adapter for pneumatic connection
- MS6-AGE for implementing threaded connection 3/4 NPT

Material: Aluminum





Dimensions and C	Ordering Data							
B1	B2	B4	D1	D2	L1	Weight [lb]	Part No.	Туре
			½ NPT				526076	MS6N-AQN
4.53	1.04	1.22	3/8 NPT	0.94	2.44	0.60	526077	MS6N-AQP
4.55	1.04	1.22	1/2 NPT	0.94	2.44	0.00	526078	MS6N-AQR
			3/4 NPT				526079	MS6N-AQS

5 Body connector MS...-MV

• For connecting modules

Material:

Stainless steel/polyacetate



Ordering Data		
Weight	Part No.	Туре
[lb]		
0.11	532799	MS6-MV



Accessories

18 Mounting Bracket MS6-WP...

Suggested placement of wall mounting brackets when mounting air preparation combinations

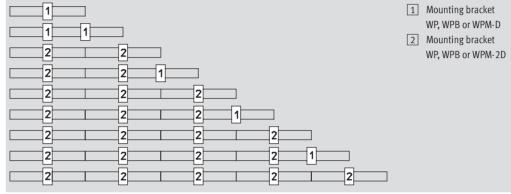
Number of units

1 unit: 2.44 in with WP, WPB

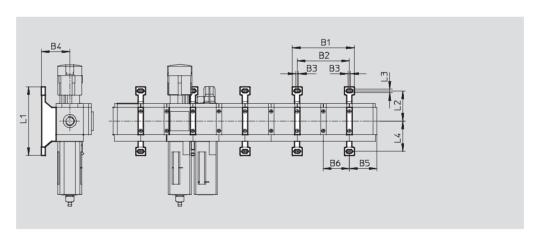
2.715 in with WPM-D

2 units: 4.88 in with WP, WPB 5.43 in with WPM-2D

3 9 1 2 4 5 6 7 8 10



Mounting dimensions



Туре	B1	B2	В3	B4	B5	В6	L1	L2	L3	L4
MS6-WP	5.55	4.88	0.18	2.13	2.54	2.44	6 22	2.80		2.80
MS6-WPB	5.55	4.00	0.10	3.56	2.54	2.44	0.22	2.00	0.26	2.00
MS6-WPMD	6.61	5.43	0.69	2.13	2.58	2.72	3.88	1.63		1.63



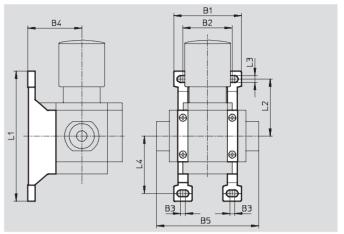
Accessories

Mounting bracket MS6-WP

- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- In combination with mounting plate MS-AEND or for mounting an individual unit with body thread on a wall
- For pressure regulator LRB with angled outlet block B... at rear

Material: Die-cast aluminum





Dimensions	Dimensions and Ordering Data											
B1	B2	В3	B4	B5	L1	L2	L3		Weight [lb]	Part No.	Туре	
3.11	2.44	0.18	2.13	4.53	6.22	2.80	0.26	2.80	0.15	532195	MS6-WP	

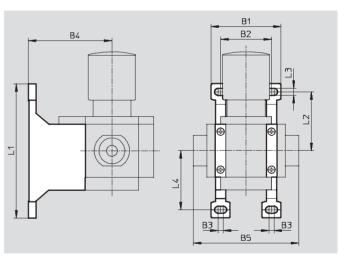
Mounting bracket MS6-WPB

- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- In combination with mounting plate MS-AEND or for mounting an individual unit with direct thread on a wall
- Provides large wall gap for pressure regulator

Material:

Die-cast aluminum





Dimensions and Ordering Data											
B1	B2	В3	B4	B5	L1	L2	L3	L4	Weight [lb]	Part No.	Туре
3.11	2.44	0.18	3.56	4.53	6.22	2.80	0.26	2.80	0.23	526074	MS6-WPB

Accessories

FESTO

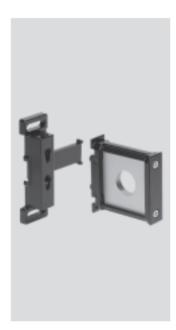
Mounting bracket MS6-WPM

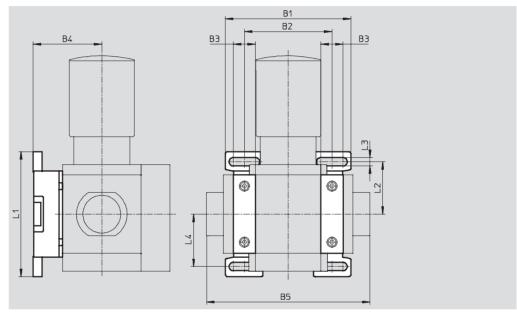
- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- Speedy attachment and detachment
- For installation of modules with regulating knob pointing downwards

The distance piece D or 2D (designated in the type code) is included in the scope of delivery and ensures the correct clearance

Material:

Die-cast aluminum





Dimension	Dimensions and Ordering Data												
B1	B2	B3	B4	B5	L1	L2	L3	L4	Clearance	Weight [lb]	Part No.	Туре	
3.90	2.72	0.69	2.13	5.08	3.88	1.63	0.26	1.63	2.44	0.29	526073	MS6-WPM-D	
6.61	5.43	0.09	2.17	7.80	7.00	1.05	0.20	1.05	4.88	0.31	532186	MS6-WPM-2D	

Body connector MS6-MVM

• For installation of modules with regulating knob pointing downwards

Material:

Die-cast aluminum



Ordering Data		
Size	Part No.	Туре
MS6	532801	MS6-MVM



Accessories

11 Ordering Data	a – Pressure Switch PEV				Techni	cal data → www.festo.com/catalog/pev
	Pneumatic connection	Pressure switching	Electrical connection	Order	Part No.	Туре
		point		code		
	1/4 NPT	Adjustable	Plug, square design to	Х	161760	PEV-1/4-SC-0D
		with visual scale	DIN EN 175 301, type A			
(2)	1/4 NPT	Adjustable	Plug, square design to	Υ	175250	PEV-1/4-B-0D
			DIN EN 175 301, type A			
	1/4 NPT	Adjustable	Plug M12x1, 4-pin	M12	192488	PEV-1/4-B-M12

16 Ordering Data	– Pressure Sensor SDE1					Technica	al data → www.festo.com/catalog/sde1
	Pneumatic connection	Electrical output	Electrical connection	- 1 7	Order code	Part No.	Туре
Pressure sensor SI	DE1 for Distribution Block	MS-FRM, pressure measuring ra	nge 0 147 psi r	elative pressure	e measurem	ent	
	Female thread 1/8 NPT	1 switch output PNP	M8x1,	LCD	AD5	192030	SDE1-D10-G2-H18-C-P1-M8
750			3-pin				
0.0		2 switch outputs PNP and	M12x1,	Illuminated	AD6	534062	SDE1-D10-G2-W18-L-2I-M12
		4 20 mA analog	5-pin	LCD			

13 Ordering Data	a – Angled Socket PEV				Techni	cal data → www.festo.com/catalog/pev
	Description	Operating voltage range	Electrical connection	Switching status	Part No.	Туре
				display		
	for PEV-1/4OD	15 30 V DC	4-pin	Yellow LED	164274	PEV-1/4-WD-LED-24
	for PEV-1/4OD	15 30 V DC ≤ 230 V AC	4-pin 4-pin	Yellow LED Yellow LED	164274 164275	PEV-1/4-WD-LED-24 PEV-1/4-WD-LED-230

14 Ordering Data	a – Plug Socket MSSD				Technica	ıl data → www.festo.com/catalog/mssd
	Description	Operating voltage range	Electrical connection	Type of mounting cable	Part No.	Туре
				connection		
	for PEV-1/4OD	≤ 250 V AC/DC	3-pin	Clamping screws	171157	MSSD-C-4P

15 Ordering Data	ı – Double Nipple ESK				
	Description	Pneumatic connection		Part No.	Туре
	Adjustable for angular compensation	R ¹ /8	R ¹ / ₄	534151	ESK-1/8-1/4
	For retro-fitting pressure switch PEV or pressure sensor SDE1 to distribution block	R ¹ / ₄	R1/4	151521	ESK-1/4-1/4
	MS-FRM		R1/2	534153	ESK-1/4-1/2



Accessories

17 Ordering Data	a – Plug Socket with Cable SIM-M8		Technical o	lata → www.festo.com/catalog/sim-m8
	Electrical connection	Cable length [ft]	Part No.	Туре
	M8x1, 3-pin	8.2	159420	SIM-M8-3GD-2,5-PU
		16.4	159421	SIM-M8-3GD-5-PU
		32.8	192964	SIM-M8-3GD-10-PU
	M8x1, 3-pin	8.2	159422	SIM-M8-3WD-2,5-PU
		16.4	159423	SIM-M8-3WD-5-PU
		32.8	192965	SIM-M8-3WD-10-PU

Ordering Data -	Plug Socket with Cable SIM-M12	Technical data → www.festo.com/catalog/sim-m12	
	Electrical connection	Cable length [ft]	Part No. Type
6	M12x1, 4-pin	16.4	164259 SIM-M12-4GD-5-PU
	M12x1, 5-pin	8.2	175715 SIM-M12-5GD-2,5-PU
		16.4	175716 SIM-M12-5GD-5-PU
	M12x1, 4-pin	16.4	164258 SIM-M12-4WD-5-PU

8 Ordering Data − Pressure Gauge MA Technical data → www.festo.com/catalog/m								
	Nominal size	Pneumatic connection	Indicating range		Part No.	Туре		
			[bar]	[psi]				
	Pressure gauge MA, DIN EN 837-1							
	1.57	1/4 NPT	0 16	0 232	183908	MA-40-16-N ¹ / ₄ -EN		
	Pressure gauge MA, DIN EN 837-1, with red-green range							
	1.97	1/4 NPT	_	0 232	530391	MA-50-232-N ¹ / ₄ -PSI-E-RG		

2007/10 - Subject to change - MS Series

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