

Energy efficiency module

MSE6-C2M-5000-FB43-D-M-RG-BAR-M12L5-MQ1-AGD

FESTO

Part number: 8157912



 General operating condition

Data sheet

Feature	Value
Size	6
Series	MSE
Mounting position	Horizontal +/-5°
Valve function	2/2 open, monostable
Type of reset	Mechanical spring
Operating pressure	0.5 MPa ... 1.1 MPa
Operating pressure	5 bar ... 11 bar
Operating pressure	72.5 psi ... 159.5 psi
Pressure regulation range	0.25 MPa ... 1 MPa
Pressure regulation range	2.5 bar ... 10 bar
Pressure regulation range	36.25 psi ... 145 psi
Max. pressure hysteresis	0.03 MPa
Max. pressure hysteresis	0.3 bar
Max. pressure hysteresis	4.35 psi
Standard nominal flow rate (standardised to DIN 1343)	7000 l/min
Duty cycle	100%
Max. current consumption, load	≤0.26 A
Max. current consumption, logic	≤0.32 A
Max. resultant current	1 A
Approval	RCM trademark
KC mark	KC-EMV
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation not possible
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Storage temperature	-10 °C ... 60 °C
Media temperature	0 °C ... 50 °C
Degree of protection	IP65 With plug socket
Ambient temperature	0 °C ... 50 °C
Product weight	4455 g
Electrical connection	M12x1, L-coded to EN 61076-2-111
Pneumatic connection, port 1	G1/2
Pneumatic connection, port 2	G1/2

Feature	Value
Material seals	NBR
Material housing	Die-cast aluminium
Material covering	PA-reinforced
Material cover	PA-reinforced
Field bus interface	2x socket, M12x1, 4-pin, D-coded
Operating voltage range DC electronics/sensors	18 V ... 30 V
Operating voltage DC load voltage	21.6 V ... 28.8 V
Reverse polarity protection	For operating voltage connections
Displayable units	kPa l l/min m ³ mbar psi scf scfm
Start value for flow rate measuring range	50 l/min
End value for flow rate measuring range	5000 l/min
Accuracy of flow rate	± (3% o.m.v. + 0.3% FS)
Start value for pressure measuring range	0 MPa
Start value for pressure measuring range	0 bar
Start value for pressure measuring range	0 psi
End value for pressure measuring range	1.4 MPa
End value for pressure measuring range	14 bar
End value for pressure measuring range	203 psi
Accuracy in ± % FS	3 %FS
Number of inputs	2
Switching logic for inputs	PNP (positive switching)
Number of outputs	2
Switching logic for outputs	PNP (positive switching)
Max. power supply per channel	1 A (12 W lamp load)