

# Energy efficiency module MSE6-C2M-5000-FB43-D-M-RG-BAR-M12L4-MQ1-AGD

FESTO

Part number: 8169407



## Data sheet

| Feature                                      | Value   |
|--|---|
| Size   | 6   |
| Series                                       | MSE   |
| Mounting position                            | Horizontal +/- 5°   |
| Valve function                               | 2/2, open, monostable                                       |
| Reset method                                 | Mechanical spring   |
| Operating pressure                           | 0.5 MPa...1.1 MPa<br>5 bar...11 bar<br>72.5 psi...159.5 psi |
| Pressure regulation range MPa                | 0.25 MPa...1 MPa  |
| Pressure regulation range                    | 2.5 bar...10 bar  |
| Pressure regulation range psi                | 36.25 psi...145 psi   |
| Max. pressure hysteresis                     | 0.03 MPa<br>0.3 bar<br>4.35 psi                             |
| Standard nominal flow rate                   | 7000 l/min  |
| Duty cycle                                   | 100%  |
| Max. residual current                        | 1 A   |
| Certification                                | RCM compliance mark   |
| KC characters                                | KC EMC  |
| CE marking (see declaration of conformity)   | As per EU EMC directive<br>As per EU RoHS directive         |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions       |
| Operating medium                             | Compressed air as per ISO 8573-1:2010 [7:4:4]               |
| Information on operating and pilot media     | Operation with oil lubrication not possible                 |
| LABS (PWIS) conformity                       | VDMA24364-B1/B2-L   |
| Storage temperature                          | -10 °C...60 °C  |
| Temperature of medium                        | 0 °C...50 °C  |
| Degree of protection                         | IP65<br>With plug socket                                    |
| Ambient temperature                          | 0 °C...50 °C  |
| Product weight                               | 4455 g  |
| Electrical connection                        | 4-pin<br>M12x1, L-coded according to EN 61076-2-111         |

| Feature  | Value   |
|--|---|
| Pneumatic connection 1                         | G1/2  |
| Pneumatic connection 2                         | G1/2  |
| Seals material                                 | NBR   |
| Housing material                               | Die-cast aluminum   |
| Covering material                              | PA-reinforced   |
| Cover material                                 | PA-reinforced   |
| Fieldbus interface                             | 2x socket, M12x1, 4-pin, D-coded                                  |
| Operating voltage range DC electronics/sensors | 18 V...30 V   |
| DC load voltage operating voltage range        | 21.6 V...28.8 V   |
| Reverse polarity protection                    | for operating voltage connections                                 |
| Displayable unit(s)                            | kPa<br>l<br>l/min<br>m <sup>3</sup><br>mbar<br>psi<br>scf<br>scfm |
| Flow measuring range start value               | 50 l/min  |
| Flow measuring range end value                 | 5000 l/min  |
| Accuracy of flow rate                          | ± (3% o.m.v. + 0.3% FS)   |
| Pressure measuring range initial value         | 0 MPa<br>0 bar<br>0 psi   |
| Pressure measuring range end value             | 1.4 MPa<br>14 bar<br>203 psi                                      |
| Accuracy in ± % FS                             | 3 %FS   |
| No. of inputs                                  | 2   |
| Input switching logic                          | PNP (positive switching)  |
| No. of outputs                                 | 2   |
| Switching logic at outputs                     | PNP (positive switching)  |
| Max. power supply per channel                  | 1 A (12 W lamp load)  |