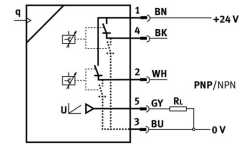


# Flow sensor SFAB-50U-WQ6-2SV-M12

Part number: 565392

**FESTO**



## Data sheet

[PDF](#) General operating condition

| Feature                                    | Value                                                       |
|--------------------------------------------|-------------------------------------------------------------|
| Symbol                                     | 00992242                                                    |
| Approval                                   | RCM trademark<br>c UL us - Recognized (OL)                  |
| CE mark (see declaration of conformity)    | To EU EMC Directive<br>In accordance with EU RoHS Directive |
| CE marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions       |
| Certificate issuing authority              | UL E322346                                                  |
| Note on materials                          | RoHS-compliant                                              |
| Measured variable                          | Volume<br>Volumetric flow rate                              |
| Flow direction                             | Unidirectional<br>P1 -> P2                                  |
| Measuring principle                        | Thermal                                                     |
| Measurement method                         | Heat Loss                                                   |
| Start value for flow rate measuring range  | 0.5 l/min                                                   |
| End value for flow rate measuring range    | 50 l/min                                                    |
| Operating pressure                         | 0 MPa ... 1 MPa                                             |
| Operating pressure                         | 0 bar ... 10 bar                                            |
| Operating medium                           | Compressed air to ISO 8573-1:2010 [6:4:4]<br>Nitrogen       |
| Media temperature                          | 0 °C ... 50 °C                                              |
| Ambient temperature                        | 0 °C ... 50 °C                                              |
| Nominal temperature                        | 23 °C                                                       |
| Accuracy of flow rate                      | ± (3% o.m.v. + 0.3% FS)                                     |
| Repetition accuracy offset in ± %FS        | 0.2 %FS                                                     |
| Repetition accuracy span in ± %FS          | 0.8 %FS                                                     |
| Temperature coefficient span in ± %FS/K    | Typ. 0.1%FS/K                                               |
| Pressure influence span in ± %FS/bar       | 0.5 %FS/b.                                                  |
| Switching output                           | 2 x PNP or 2 x NPN, switchable                              |
| Switching function                         | Window comparator<br>Threshold value comparator             |
| Switching element function                 | N/C or N/O contact, switchable                              |
| Max. output current                        | 100 mA                                                      |
| Analogue output                            | 0 - 10 V                                                    |
| Flow characteristic curve start value      | 0 l/min                                                     |
| Flow characteristic curve end value        | 50 l/min                                                    |

| Feature                                              | Value                                                        |
|------------------------------------------------------|--------------------------------------------------------------|
| Output characteristic curve start value              | 0 V                                                          |
| Output characteristic curve end value                | 10 V                                                         |
| Min. load resistance voltage output                  | 10 kOhm                                                      |
| Short circuit current rating                         | yes                                                          |
| Overload protection                                  | Available                                                    |
| Operational voltage range DC                         | 15 V ... 30 V                                                |
| No-load supply current                               | 120 mA                                                       |
| Reverse polarity protection                          | For all electrical connections                               |
| Electrical connection 1, connection type             | Plugs                                                        |
| Electrical connection 1, connector system            | M12x1, A-coded to EN 61076-2-101                             |
| Electrical connection 1, number of connections/cores | 5                                                            |
| Electrical connection 1, connection pattern          | 00995383                                                     |
| Type of mounting                                     | With through-hole<br>With H-rail<br>Via wall/surface bracket |
| Mounting position                                    | optional                                                     |
| Pneumatic connection                                 | For tubing O.D. 6 mm                                         |
| Product weight                                       | 160 g                                                        |
| Material housing                                     | PA-reinforced                                                |
| Display type                                         | Illuminated LCD, multi-colour                                |
| Displayable units                                    | l<br>l/h<br>l/min<br>m3<br>scf<br>scfm                       |
| Setting options                                      | Teach-in<br>Via display and keys                             |
| Protection against tampering                         | PIN code                                                     |
| Degree of protection                                 | IP65                                                         |
| Pressure drop                                        | <100 mbar                                                    |
| Protection class                                     | III                                                          |
| Corrosion resistance class CRC                       | 2 - Moderate corrosion stress                                |
| LABS (PWIS) conformity                               | VDMA24364-B1/B2-L                                            |