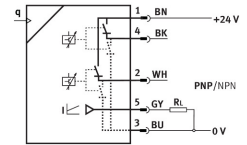
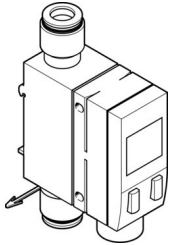


# Flow sensor SFAB-1000U-HQ12-2SA-M12-EX2

Part number: 565409

FESTO



General operating condition

## Data sheet

Feature	Value
Symbol	00992243
Approval	RCM trademark c UL us listed (OL)
CE mark (see declaration of conformity)	To EU EMC Directive To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Explosion protection	Zone 2 (ATEX) Zone 22 (ATEX)
ATEX category gas	II 3G
Explosion ignition protection type for gas	Ex nA IIC T5 X Gc
ATEX category dust	II 3D
Explosion ignition protection type for dust	Ex tc IIIB T80°C X Dc IP54
Explosion ambient temperature	0 °C ≤ Ta ≤ +50 °C
Certificate issuing authority	UL E322346
Note on materials	RoHS-compliant
Measured variable	Volume Volumetric flow rate
Flow direction	Unidirectional P1 → P2
Measuring principle	Thermal
Measurement method	Heat Loss
Start value for flow rate measuring range	10 l/min
End value for flow rate measuring range	1000 l/min
Operating pressure	0 MPa ... 1 MPa
Operating pressure	0 bar ... 10 bar
Operating pressure	0 psi ... 145 psi
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4] 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

Feature	Value
Pressure influence span in $\pm$ %FS/bar	0.5 %FS/b.
Switching output	2 x PNP or 2 x NPN, switchable
Switching function	Window comparator Threshold value comparator
Switching element function	N/C or N/O contact, switchable
Max. output current	100 mA
Analogue output	4 - 20 mA
Flow characteristic curve start value	0 l/min
Flow characteristic curve end value	1000 l/min
Output characteristic curve starting value	4 mA
Output characteristic curve end value	20 mA
Max. load resistance current output	500 Ohm
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, type of mounting	Screw-type lock Not rotatable
Electrical connection 1, compatible type of mounting	Compatible with rotatable screw-type lock
Electrical connection 1, connection pattern	00995383
Type of mounting	With through-hole With H-rail
Mounting position	optional
Pneumatic connection	For tubing O.D. 12 mm
Product weight	160 g
Material housing	PA-reinforced
Display type	Illuminated LCD, multi-colour
Displayable units	l l/min m <sup>3</sup> scf scfm
Setting options	Teach-in 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