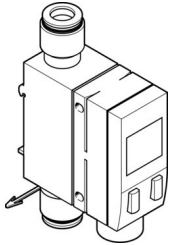


Flow sensor SFAB-1000U-HQ12-2SA-M12-EX2

Part number: 565409

FESTO



General operating condition

Data sheet

Feature	Value
Symbol	00992243
Certification	RCM compliance mark c UL us - Listed (OL)
CE marking (see declaration of conformity)	As per EU EMC directive as per EU explosion protection directive (ATEX) As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Explosion prevention and protection	Zone 2 (ATEX) Zone 22 (ATEX)
ATEX category gas	II 3G
Type of ignition protection for gas	Ex nA IIC T5 X Gc
ATEX category for dust	II 3D
Type of (ignition) protection for dust	Ex tc IIIB T80°C X Dc IP54
Explosive 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
Method of measurement	Heat loss
Flow measuring range start value	10 l/min
Flow measuring range end value	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 as per ISO 8573-1:2010 [7:4:4] Nitrogen
Temperature of medium	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)
Zero point repetition accuracy in ± %FS	0.2 %FS
Repetition accuracy margin in ± %FS	0.8 %FS
Temperature co-efficient margin in ± %FS/K	typ. 0.1 %FS/K
Pressure influence of margin in ± %FS/bar	0.5 %FS/b.

Feature	Value
Switching output	2 x PNP or 2 x NPN switchable
Switching function	Window comparator Threshold value comparator
Switching element function	N/C contact/N/O contact switchable
Max. output current	100 mA
Analog output	4 - 20 mA
Flow characteristic curve, start value	0 l/min
Flow characteristic curve, end value	1000 l/min
Output characteristic curve initial value	4 mA
End value output characteristic curve	20 mA
Max. load resistance of current output	500 Ohm
Short-circuit protection	yes
Overload protection	Available
DC operating voltage range	15 V ... 30 V
Idle current	120 mA
Reverse polarity protection	for all electrical connections
Electrical connection 1, connection type	Plug
Electrical connection 1, connection technology	M12x1 A-coded as per EN 61076-2-101
Electrical connection 1, number of pins/wires	5
Electrical connection 1, type of mounting	not rotatable
Electrical connection 1, type of mounting	Compatible with rotatable screw-type lock
Electrical connection for input 1, connection pattern	00995383
Type of mounting	With through-hole With H-rail
Mounting position	Any
Pneumatic connection	For tubing O.D. 12 mm
Product weight	160 g
Housing material	PA-reinforced
Display type	Illuminated LCD, multi-color
Displayable unit(s)	l l/min m3 scf scfm
Setting options	Teach-in Via display and pushbuttons
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