

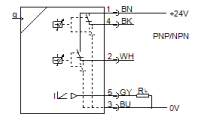
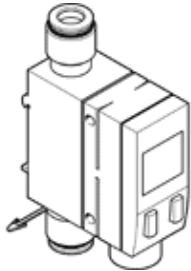
flow sensor

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

Part number: 565409

FESTO

With rotatable display and integrated QS fittings.



Data sheet

Feature	Value
Authorisation	RCM Mark c UL us - Recognized (OL)
CE mark (see declaration of conformity)	to EU directive for EMC to EU directive explosion protection (ATEX) in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
ATEX category Gas	II 3G
Explosion ignition protection type Gas	Ex nA IIC T5 X Gc
ATEX category Dust	II 3D
Explosion ignition protection type Dust	Ex tc IIIB T80°C X Dc IP54
Explosion-proof ambient temperature	0°C ≤ Ta ≤ +50°C
Certificate issuing department	UL E322346
Materials note	Conforms to RoHS
Measured variable	Volume Volumetric flow rate
Direction of flow	Unidirectional P1 → P2
Measuring principle	Thermal
Measurement method	Heat Loss
Flow measurement range initial value	10 l/min
Flow measurement range final value	1,000 l/min
Operating pressure MPa	0 ... 1 MPa
Operating pressure	0 ... 10 bar
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4] Nitrogen
Medium temperature	0 ... 50 °C
Ambient temperature	0 ... 50 °C
Nominal temperature	23 °C
Accuracy of flow rate	± (3% o.m.v. + 0,3% FS)
Repetition accuracy zero point 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 dependency margin in ± %FS/bar	0.5 %FS/b.
Switch 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
Characteristic curve for flow rate initial value	0 l/min
Characteristic curve for flow rate final value	1,000 l/min
Output characteristic curve initial value	4 mA
Output characteristic curve final value	20 mA

Feature	Value
Max. load resistance, current output	500 Ohm
Short circuit strength	Yes
Overload withstand capability	Available
Operating voltage range DC	15 ... 30 V
Idle current	120 mA
Polarity protected	for all electrical connections
Electrical connection 1, connection type	Plug
Electrical connection 1, connection technology	M12x1, A-coded in accordance with EN 61076-2-101
Electrical connection 1, number of pins/wires	5
Mounting type	with through hole with top-hat rail
Assembly position	Any
Pneumatic connection	For tubing outside diameter 12 mm
Product weight	160 g
Material housing	PA-reinforced
Type of display	Illuminated LCD, multicoloured
Unit(s) that can be displayed	l l/min m ³ scf scfm
Setting options	Teach-In Via display and buttons
Protection against manipulation	PIN-Code
Protection class	IP65
Pressure drop	< 100 mbar
Safety class	III
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-B1/B2-L