

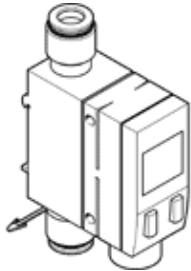
# flow sensor

## 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
KC mark	KC-EMV
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	Flow rate Consumption
Direction of flow	Unidirectional P1 → P2
Measuring principle	Thermal
Flow measurement range initial value	10 l/min
Flow measurement range final value	1,000 l/min
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
Switch output	2 x PNP or 2 x NPN switchable
Switching function	Window comparator Threshold value comparator
Switching element function	Normally closed contact Normally open contact
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
Max. load resistance, current output	500 Ohm
Short circuit strength	Yes
Operating voltage range DC	15 ... 30 V
Polarity protected	for all electrical connections

<b>Feature</b>	<b>Value</b>
Electrical connection	5-pin M12x1 Plug straight
Connector pin assignments per standard	EN 60947-5-2
Mounting type	with through hole with top-hat rail with wall/surface fixing Optional
Assembly position	Any
Pneumatic connection	QS-12
Product weight	600 g
Material housing	PA-reinforced
Type of display	Illuminated LCD blue
Unit(s) that can be displayed	l l/min m <sup>3</sup> scf scfm
Protection class	IP65
Pressure drop	< 100 mbar
Corrosion resistance classification CRC	2 - Moderate corrosion stress