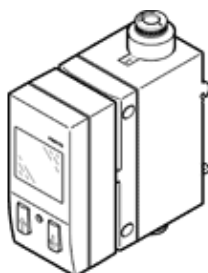


Flow sensor SFAB-1000U-HQ12-2SA-M12-EX2

Part number: 565409

FESTO



Data sheet

Feature	Value
Authorization	RCM Mark c UL us - Recognized (OL)
CE symbol (see declaration of conformity)	according to EU-EMV guideline according to EU-Ex protection guideline (ATEX) in accordance with EU RoHS directive
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
Working 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
Analog 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
Electrical connection	Plug straight

Feature	Value
	M12x1 5-pin
Connector pin assignments per standard	EN 60947-5-2
Mounting type	Optional with through hole with top-hat rail with wall/surface fixing
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 ³ scf scfm
Protection class	IP65
Pressure drop	< 100 mbar
Corrosion resistance classification CRC	2 - Moderate corrosion stress