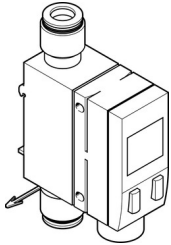


Air flow sensor SFAB-1000U-HQ12-2SA-M12-EX2

Part number: 565409

FESTO



Data sheet

Feature	Value
Type code	SFAB
Certification	RCM compliance mark c UL us - Recognized (OL)
CE marking (see declaration of conformity)	As per EU EMC directive as per EU explosion protection directive (ATEX) As per EU RoHS directive
KC characters	KC EMC
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	Flow rate Consumption
Flow direction	Unidirectional P1 → P2
Measuring principle	Thermal
Flow measuring range start value	10 l/min
Flow measuring range end value	1000 l/min
Operating pressure	0 bar ... 10 bar
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
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
Max. output current	≤100 mA

Feature	Value
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
DC operating voltage range	15 V ... 30 V
Reverse polarity protection	for all electrical connections
Electrical connection	5-pin M12x1 Plug, straight
Pin allocation in accordance with standards	EN 60947-5-2
Type of mounting	Optionally: With through-hole With H-rail With wall/surface bracket
Mounting position	Any
Pneumatic connection	QS-12
Product weight	600 g
Housing material	PA-reinforced
Display type	Illuminated LCD blue
Displayable unit(s)	l l/min m ³ scf scfm
Degree of protection	IP65
Pressure drop	<100 mbar
Corrosion resistance class (CRC)	2 - Moderate corrosion stress