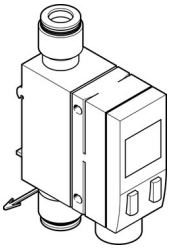
Air flow sensor
SFAB-1000U-HQ12-2SA-M12-EX2

Part number: 565409



Data sheet

Feature	Value
Type code	SFAB
KC characters	KC EMC
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
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 m3 scf scfm
Degree of protection	IP65
Pressure drop	<100 mbar
Corrosion resistance class (CRC)	2 - Moderate corrosion stress