Flow sensor
SFAB-

Part number: 563795

Data sheet

Feature	Value
Approval	RCM trademark c UL us listed (OL)
CE mark (see declaration of conformity)	To EU EMC Directive To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Explosion protection	Zone 2 (ATEX) Zone 22 (ATEX)
Note on materials	RoHS-compliant
Flow direction	Unidirectional P1 -> P2
Start value for flow rate measuring range	0.1 l/min...10 l/min
End value for flow rate measuring range	3 l/min...1000 l/min
Temperature measurement start value	0 °C
Temperature measurement end value	50 °C
Operating pressure	0 MPa...1 MPa 0 bar...10 bar 0 psi...145 psi
Operating medium	Argon Compressed air to ISO 8573-1:2010 [6:4:4] Compressed air to ISO 8573-1:2010 [7:4:4] Carbon dioxide Nitrogen
Media temperature	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)
Accuracy temperature in ± °C	5 °C
Repetition accuracy offset in ± %FS	0.2 %FS
Repetition accuracy span in ± %FS	0.8 %FS
Temperature coefficient span in ± %FS/K	Typ. 0.1%FS/K
Pressure influence span in ± %FS/bar	0.5 %FS/b.

Feature	Value
Analogue output	0 - 10 V 4 - 20 mA 1 - 5 V
Flow characteristic curve start value	0 l/min
Flow characteristic curve end value	10 l/min...1000 l/min
Temperature characteristic curve start value	0 °C
Temperature characteristic curve end value	100 °C
Output characteristic curve start value	0 V
Output characteristic curve end value	10 V 20 mA
Output characteristic curve starting value	4 mA
Max. load resistance current output	500 Ohm
Min. load resistance voltage output	10 kOhm
Short circuit current rating	yes
Overload protection	Available
Protocol	IO-Link®
IO-Link, revision ID	V1.1
IO-Link, device profile	Function Extended identification Function Measurement data, standard resolution Function Multiple switching signal Firmware update Function locator Function Product URI Function Teach single value Identification and diagnostics Smart sensor - SSP 4.1.2
IO-Link, transmission rate	COM3
IO-Link, SIO-Mode support	Yes
IO-Link, port type	Class A
IO-Link, process data length output	0 bit
IO-Link, process data length input	64 bit
IO-Link, Process data content IN	Flow rate measured value 16-bit MDC Flow rate monitoring 2-bit SSC Temperature measured value 16 bit MDC Temperature monitoring 2-bit SSC Volume / mass pulse 1 bit SSC
IO-Link, Service data IN	Volume/mass measured value 32 bit
IO-Link, minimum cycle time	1.2 ms
IO-Link, Data storage required	0.5 KB
Operational voltage range DC	15 V...30 V
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Plugs
Electrical connection 1, connector system	M12x1, A-coded to EN 61076-2-101
Electrical connection 1, number of connections/cores	5
Electrical connection 1, type of mounting	Screw-type lock
Electrical connection 1, compatible type of mounting	Compatible with rotatable screw-type lock
Type of mounting	With through-hole With H-rail Via wall/surface bracket
Mounting position	optional
Pneumatic connection	For tubing O.D. 6 mm For tubing O.D. 8 mm For tubing outside diameter of 10 mm For tubing O.D. 12 mm For tubing outside Ø 1/4" For tubing outside Ø 5/16" For tubing outside Ø 3/8"
Product weight	160 g
Material housing	PA-reinforced

Feature	Value
Display type	Illuminated LCD, multi-colour
Degree of protection	IP65
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L