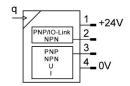
Flow sensor SFAH-200U-G14FS-PNLK-PNVBA-L1

FESTO

Part number: 609555





Data sheet

Feature	Value
Certification	RCM compliance mark c UL us - Listed (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Note on materials	RoHS-compliant
Measured variable	Mass flow rate Volumetric flow rate
Flow direction	Unidirectional
Measuring principle	Thermal
Method of measurement	Heat transfer
Flow measuring range start value	4 l/min
Flow measuring range end value	200 l/min
Operating pressure	-0.9 bar10 bar
Operating medium	Argon Compressed air as per ISO 8573-1:2010 [6:4:4] Nitrogen
Temperature of medium	0 °C50 °C
Ambient temperature	0 ℃50 ℃
Nominal temperature	23 °C
Accuracy of flow rate	± (2% o.m.v. + 1% FS)
Zero point repetition accuracy in ± %FS	0.2 %FS
Repetition accuracy margin in ± %FS	0.8 %FS
Temperature co-efficient margin in ± %FS/K	typ. 0.15% FS/K
Pressure influence of margin in ±%FS/bar	1 %FS/b.
Switching output	2 x PNP or 2 x NPN switchable
Switching function	Window comparator Threshold value comparator Auto difference monitoring
Switching element function	N/C contact/N/O contact switchable
Max. output current	100 mA

Feature	Value
Analog output	0 - 10 V
	4 - 20 mA 1 - 5 V
Flow characteristic curve, start value	0 l/min
Flow characteristic curve, start value	
	200 l/min 500 Ohm
Max. load resistance of current output	20 kOhm
Min. load resistance of voltage output Short-circuit protection	
·	yes Available
Overload protection	IO-Link®
Protocol	
IO-Link®, protocol version	Device V 1.1
IO-Link®, profile IO-Link®, function classes	Smart sensor profile Binary data channel (BDC)
IO-LINK®, TURCTION Classes	Process data variable (PDV) Identification Diagnostics Teach channel
IO-Link®, communication mode	COM2 (38,4 kBd)
IO-Link®, SIO mode support	Yes
IO-Link®, port class	A
IO-Link®, process data width IN	3 Byte
IO-Link®, process data content IN	1 bit BDC (volume monitoring) 14 bit PDV (flow measurement) 2 bit BDC (flow monitoring)
IO-Link®, service data contents IN	32 bit volume/mass measurement
IO-Link®, minimum cycle time	4 ms
IO-Link®, data memory required	0.5 KB
DC operating voltage range	22 V26 V
Idle current	25 mA
Reverse polarity protection	for all electrical connections
Electrical connection 1, connection type	Plug
Electrical connection 1, connection technology	Connection diagram L1J
Electrical connection 1, number of pins/wires	4
Type of mounting	With accessories
Mounting position	Any
Pneumatic connection	Internal thread G1/4
Pneumatic connection, outlet direction	Straight
Product weight	90 g
Housing material	PA-reinforced
Materials in contact with the media	Wrought aluminum alloy, anodized Epoxy NBR PA-reinforced Silicon Silicon nitride High-alloy stainless steel
Display type	Illuminated LCD, multi-color
Displayable unit(s)	g g/min I
	l/min scft scft/h scft/min
Setting options	IO-Link® Teach-in Via display and pushbuttons
Protection against tampering	IO-Link® PIN code

Feature	Value
Degree of protection	IP40
Pressure drop	56 mbar
Protection class	III
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Suitability for the production of Li-ion batteries	Product corresponds to Festo's internal product definition for use in battery production:Metals with more than 1% by mass of copper, zinc or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 4 according to ISO 14644-1