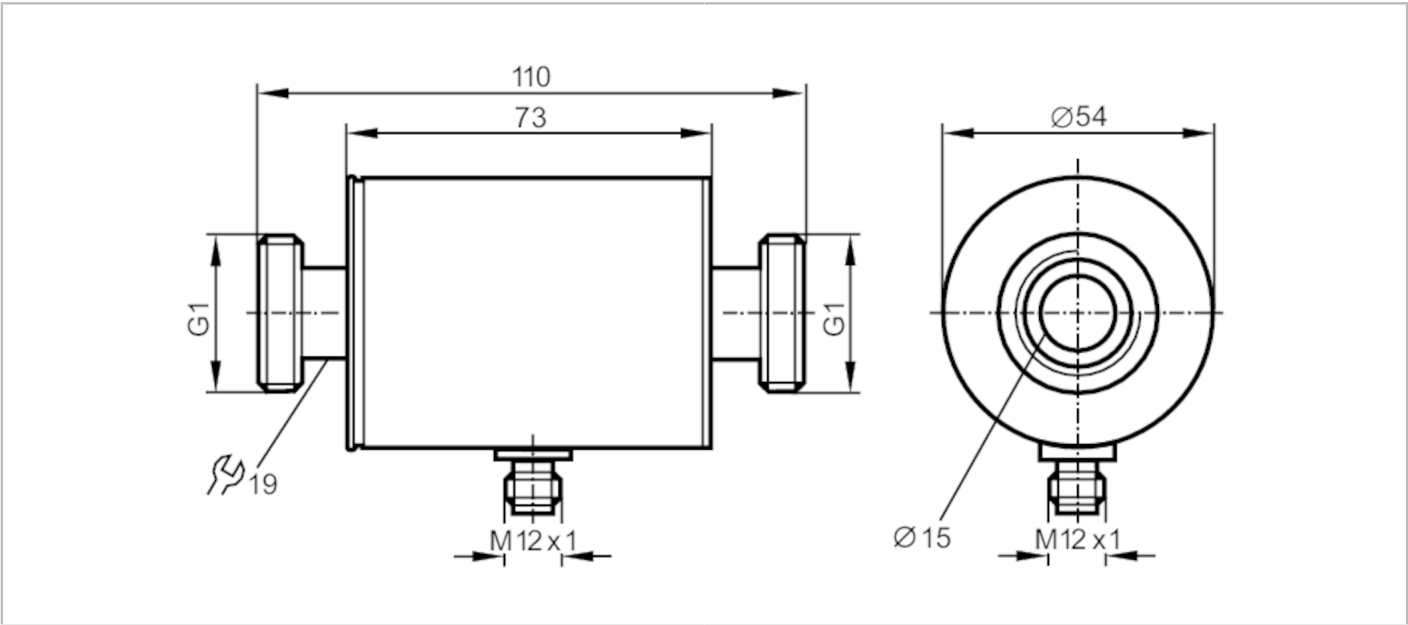


SM8050



Magnetic-inductive flow meter

SMR11GGX10KG/US



Product characteristics			
Number of inputs and outputs		Number of analog outputs: 1	
Measuring range [l/min]		0.2...100	
Process connection		threaded connection G 1 external thread DN25 flat seal	
Application			
System		gold-plated contacts	
Application		for industrial applications	
Installation		connection to pipe by means of an adapter	
Media		Conductive liquids; water; water-based media	
Note on media		conductivity: ≥ 20 μS/cm	
		viscosity: < 70 mm²/s (40 °C)	
Medium temperature [°C]		-10...70	
Pressure rating		16 bar	1.6 MPa
MAWP (for applications according to CRN) [bar]		11.2	
Electrical data			
Operating voltage [V]		18...30 DC; (to SELV/PELV)	
Current consumption [mA]		95; (24 V)	
Protection class		III	
Reverse polarity protection		yes	
Power-on delay time [s]		5	
Measuring principle		magnetic-inductive	
Inputs / outputs			
Number of inputs and outputs		Number of analog outputs: 1	
Outputs			
Total number of outputs		1	

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Output signal	analog signal; IO-Link; (configurable)
Permanent current rating of switching output DC [mA]	250
Number of analog outputs	1
Analog current output [mA]	4...20
Max. load [Ω]	500
Overload protection	yes

Measuring/setting range

Measuring range [l/min]	0.2...100
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Accuracy / deviations

Flow monitoring	
Accuracy (in the measuring range)	± (0,8 % MW + 0,5 % MEW)
Repeatability	± 0,2% MEW

Reaction times

Flow monitoring	
Response time [s]	0.15; (dAP = 0, T19)

Interfaces

Communication interface	IO-Link				
Transmission type	COM2 (38,4 kBaud)				
IO-Link revision	1.1				
SDCI standard	IEC 61131-9				
Profiles	Smart Sensor: Process Data Variable; Device Identification, Device Diagnosis				
SIO mode	yes				
Required master port class	A				
Process data analog	2				
Min. process cycle time [ms]	3				
Supported DeviceIDs	<table><tr><th>Type of operation</th><th>DeviceID</th></tr><tr><td>default</td><td>577</td></tr></table>	Type of operation	DeviceID	default	577
Type of operation	DeviceID				
default	577				

Operating conditions

Ambient temperature [°C]	-10...60
Storage temperature [°C]	-25...80
Protection	IP 67

Tests / approvals

EMC	DIN EN 60947-5-9	
CPA approval	model number	002MI
	accuracy class	-
	maximum allowable error	± 1,5 % FS
	Q (min)	0,01 m³/h
	Q (t)	-
	Q (max)	6 m³/h
Shock resistance	DIN IEC 68-2-27	20 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	5 g (10...2000 Hz)
MTTF [years]		167
Pressure equipment directive	sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

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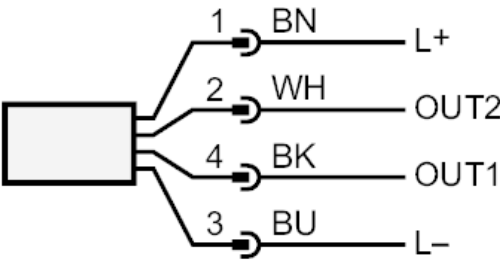
Mechanical data		
Weight	[g]	575
Housing		tubular
Dimensions	[mm]	Ø 54 / L = 110
Material		stainless steel (1.4404 / 316L); PBT-GF20; FKM; TPE
Materials (wetted parts)		stainless steel (1.4404 / 316L); PEEK; FKM
Process connection		threaded connection G 1 external thread DN25 flat seal
Remarks		
Remarks		MW = Measured value
		MEW = Final value of the measuring range
Pack quantity		1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection



OUT1: IO-Link
OUT2: analog output
Core colors :
BN = brown
WH = white
BK = black
BU = blue

Colors to DIN EN 60947-5-2

SM8050

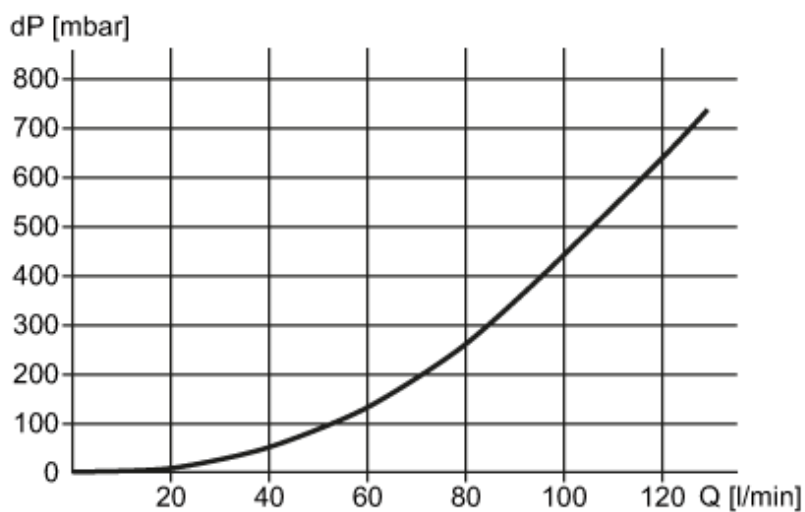


Magnetic-inductive flow meter

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Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity