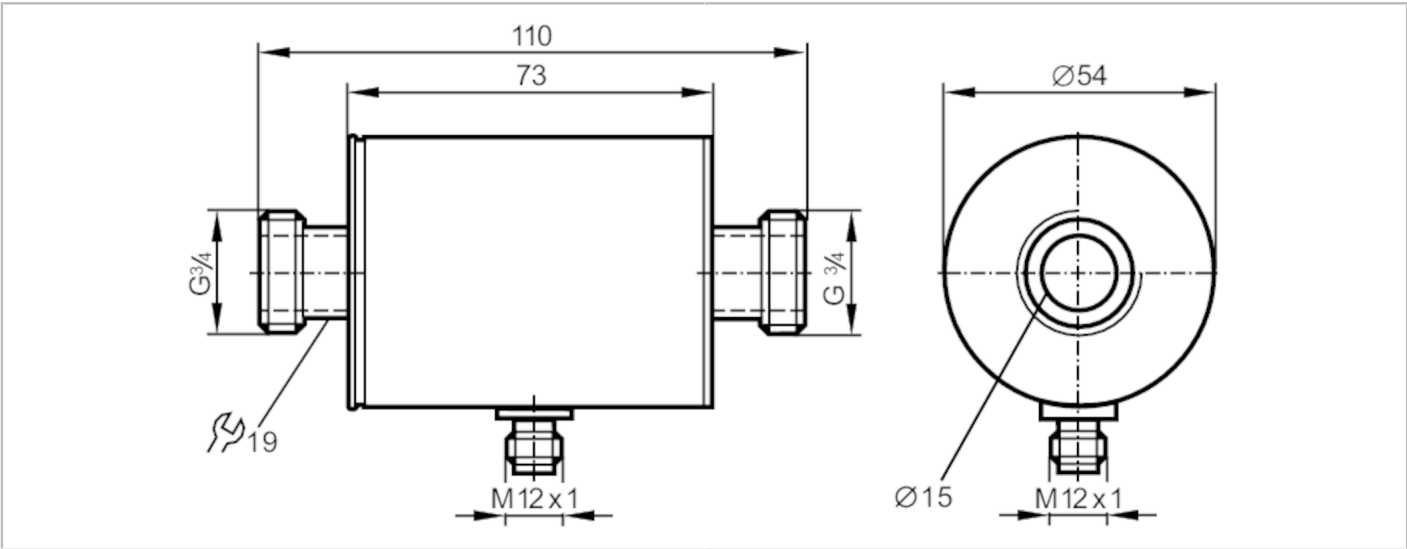


SM7050



Magnetic-inductive flow meter

SMR34GGX10KG/US-100



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1
Measuring range [l/min]	0.2...50
Process connection	threaded connection G 3/4 external thread DN20 flat seal

Application

Special feature	Gold-plated contacts
Application	for industrial applications
Installation	connection to pipe by means of an adapter
Media	conductive liquids; water; hydrous media
Note on media	conductivity: $\geq 20 \mu\text{S/cm}$ viscosity: $< 70 \text{ mm}^2/\text{s}$ (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 analogue outputs: 1
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Outputs

Total number of outputs	1
Output signal	analogue signal; IO-Link; (configurable)
Permanent current rating of switching output DC [mA]	250

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Number of analogue outputs		1
Analogue current output [mA]		4...20
Max. load [Ω]		500
Overload protection		yes
Measuring/setting range		
Measuring range [l/min]		0.2...50
Accuracy / deviations		
Flow monitoring		
Accuracy (in the measuring range)		± (0,8 % MW + 0,5 % MEW)
Repeatability		± 0,2% MEW
Response 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 type		A
Process data analogue		2
Min. process cycle time [ms]		3
Supported DeviceIDs		Type of operation
		DeviceID
		default
		574
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
		001MI
		accuracy class
		-
		maximum allowable error
		± 1,5 % FS
Q (min)		0,01 m³/h
Q (t)		-
Q (max)		3 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]		145
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data		
Weight [g]		517.55

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Housing	cylindrical
Dimensions [mm]	Ø 54 / L = 110
Materials	stainless steel (316L/1.4404); PBT-GF20; FKM; TPE
Materials (wetted parts)	stainless steel (316L/1.4404); PEEK; FKM
Process connection	threaded connection G 3/4 external thread DN20 flat seal

Remarks

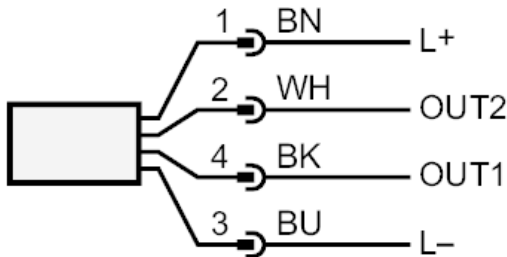
Remarks	MW = measured value
	MEW = Final value of the measuring range
Pack quantity	1 pcs.

Electrical connection

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



Connection



OUT1: colours to DIN EN 60947-5-2
OUT2: IO-Link
analogue output
Core colours :
BN = brown
WH = white
BK = black
BU = blue

SM7050

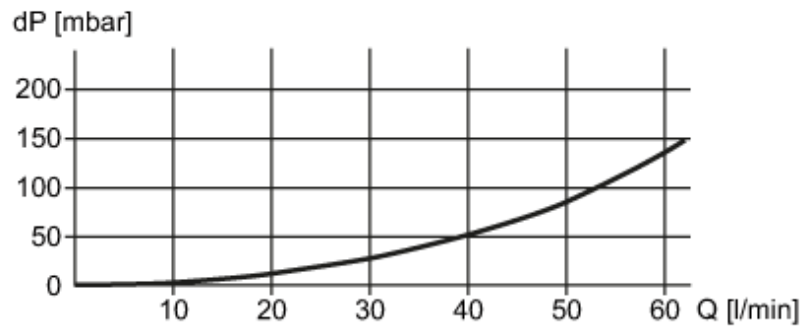


Magnetic-inductive flow meter

SMR34GGX10KG/US-100

Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity