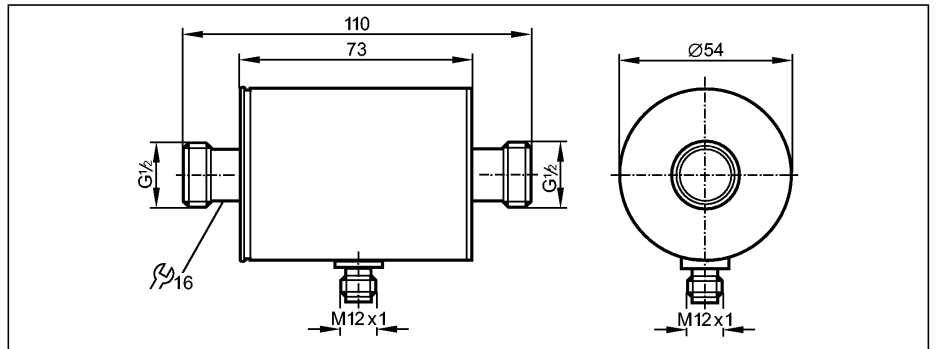


Flow sensors

SM6050

SMR12GGX10KG/US
Magnetic-inductive flow sensor
Plug and socket
Process connection: G½ flat seal

Analogue output 4...20 mA
Measuring range
0...25 l/min
connection to pipe by means of an
adapter



Application
Electrical design
Output

Operating voltage	[V]
Reverse polarity protection	
Overload protection	
Current consumption	[mA]
Power-on delay time	[s]
Analogue output	

Flow monitoring

Measuring range	[l/min]
Response time	[s]
Accuracy	
Repeatability	
Pressure loss [mbar]	
Response time	[s]
Ambient temperature	[°C]
Medium temperature	[°C]
Storage temperature	[°C]
Protection	
Insulation resistance	[MΩ]
Pressure rating	[bar]
Shock resistance	
Vibration resistance	
EMC	
Housing materials	
Materials (wetted parts)	
Connection	

Conductive liquids
(conductivity: >= 20 µS/cm / viscosity: < 70 mm²/s at 40 °C)
DC
4...20 mA analogue

Operating voltage	19...30 DC ¹⁾
Reverse polarity protection	yes
Overload protection	yes
Current consumption	90
Power-on delay time	5
Analogue output	4...20 mA (max. 500 Ω)
Measuring range	0...25
Response time	< 0.150
Accuracy	± (2% MW + 0.5% MEW)
Repeatability	± 0.2% MEW
Pressure loss [mbar]	180 (25 l/min)
Response time	T09 = 30 (Q > 1 l/min)
Ambient temperature	-10...60
Medium temperature	-10...70
Storage temperature	-25...80
Protection	IP 67, III
Insulation resistance	> 100 (500 V DC)
Pressure rating	16
Shock resistance	DIN IEC 68-2-6:20 g (10...2000 Hz)
Vibration resistance	DIN IEC 68-2-6:5 g (10...2000 Hz)
EMC	EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-5 Surge: 0.5 kV EN 61000-4-6 HF conducted: 10 V
Housing materials	stainless steel (316S12); PBT-GF 20; EPDM/X (Santoprene)
Materials (wetted parts)	stainless steel (316S12); PEEK (polyether ether ketone); FKM
Connection	M12 connector; gold-plated contacts

Remarks

¹⁾ to EN50178, SELV, PELV
MW = measured value
MEW = final value of the measuring range

SM6050

Wiring

