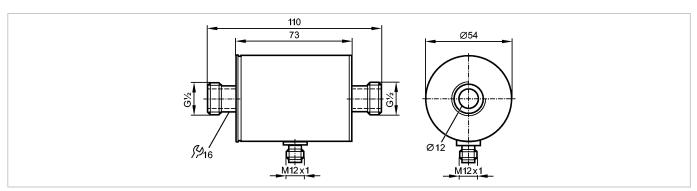
# SM6050

SMR12GGX1OKG/US-100



Flow sensors





Product characteristics	
Magnetic-inductive flow meter	
Quick disconnect	
Process connection: G½ flat seal	
connection to pipe by means of an adapter	
Analog output 420 mA	
Measuring range	
025 l/perc	
Amaliantian	

025 l/perc		
Application		
Application		Conductive liquids (conductivity:>= $20 \mu S/cm / viscosity$ : < $70 cSt$ at $104 °F$ )
Pressure rating	[bar]	16
Medium temperature	[°C]	-1070
Electrical data		
Electrical design		DC
Operating voltage	[V]	1930 DC ¹)
Current consumption	[mA]	90
Insulation resistance	[MΩ]	> 100 (500 V DC)
Protection class		III
Reverse polarity protection		yes
Outputs		
Output function		420 mA analog
Overload protection		yes
Analog output		420 mA
Max. load	[Ω]	500
Measuring / setting range	:	

# Flow monitoring Measuring range [I/min] 0...25 Accuracy / deviations Flow monitoring Accuracy ± (2% MW + 0.5% MEW) Repeatability ± 0.2% MEW



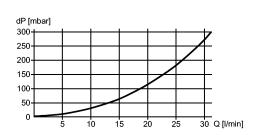
### SM6050

SMR12GGX1OKG/US-100



Flow sensors

Pressure loss (dP) / flow rate (Q)



Reaction times		
Power-on delay time	[S]	5
Flow monitoring		
Response time	[S]	< 0.150
Temperature monitoring		
Response time	[s]	T09 = 20 (Q > 1 l/min)
Environment		
Ambient temperature	[°C]	-1060
Storage temperature	[°C]	-2580
Protection		IP 67
Tests / approvals		

Tests / approvals			
Pressure equipment direct	ive	article 3, section 3 - sound engineering practice	
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
Shock resistance		DIN IEC 68-2-27:	20 g (11 ms)
Vibration resistance		DIN IEC 68-2-6:	5 g (102000 Hz)
MTTF	[Years]		182

Mechanical data		
Process connection		G⅓ flat seal
Materials (wetted parts)		stainless steel 316L / 1.4404; PEEK (polyether ether ketone); FKM
Housing materials		stainless steel 316L / 1.4404; PBT-GF 20; FKM; TPE
Weight	[kg]	0.491

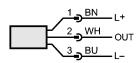
### Electrical connection

Connection M12 connector; gold-plated contacts

## Wiring

Core colors
BN brown
BU blue
WH white





Colours to DIN EN 60947-5-2

OUT: Analog output

Remarks
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Remarks

1) to EN50178, SELV, PELV MW = measured value





Flow sensors

		MEW = final value of the measuring range
Pack quantity	[piece]	1

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