

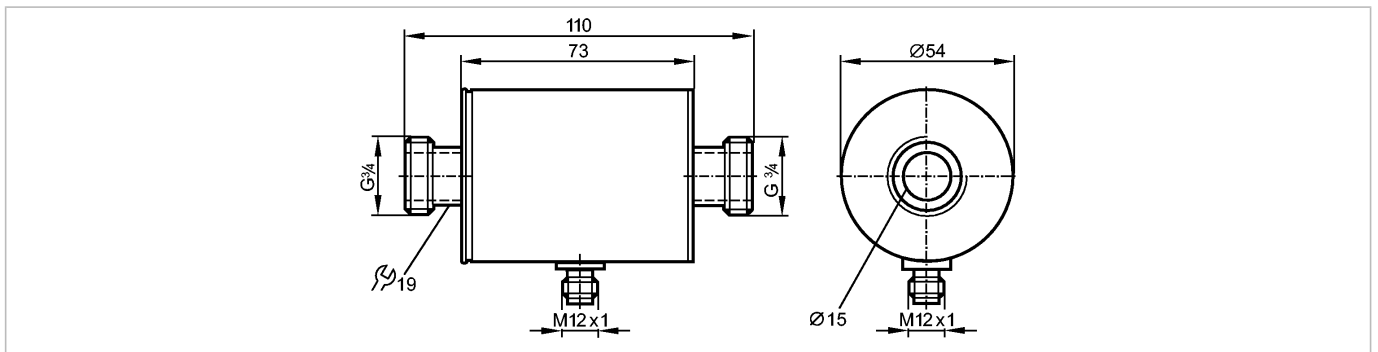


# SM7050

SMR34GGX10KG/US100



Flow sensors



## Product characteristics

Magnetic-inductive flow meter

Quick disconnect

Process connection: G $\frac{3}{4}$  flat seal

connection to pipe by means of an adapter

Analog output 4...20 mA

Measuring range

0...50 l/min

## Application

Application	Conductive liquids (conductivity: $\geq 20 \mu\text{S/cm}$ / viscosity: $< 70 \text{ cSt}$ at $104 \text{ }^\circ\text{F}$ )
Pressure rating [bar]	16
Medium temperature [°C]	-10...70

## Electrical data

Electrical design	DC
Operating voltage [V]	19...30 DC <sup>1)</sup>
Current consumption [mA]	90
Insulation resistance [M $\Omega$ ]	$> 100$ (500 V DC)
Protection class	III
Reverse polarity protection	yes

## Outputs

Output function	4...20 mA analog
Overload protection	yes
Analog output	4...20 mA
Max. load [ $\Omega$ ]	500

## Measuring / setting range

Flow monitoring	
Measuring range [l/min]	0...50

## Accuracy / deviations

Flow monitoring	
Accuracy	$\pm (2\% \text{ MW} + 0.5\% \text{ MEW})$
Repeatability	$\pm 0.2\% \text{ MEW}$



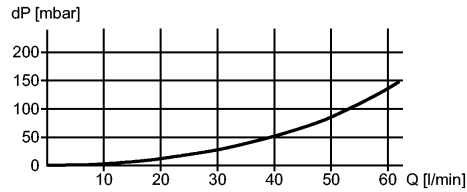
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Flow sensors

Pressure loss (dP) / flow rate (Q)



### Reaction times

Power-on delay time	[s]	5
Flow monitoring		
Response time	[s]	< 0.150

### Environment

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

### Tests / approvals

Pressure equipment directive	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 (10...2000 Hz)
MTTF	[Years]	175

### Mechanical data

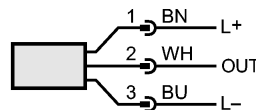
Process connection	G $\frac{3}{4}$ flat seal	
Materials (wetted parts)	stainless steel 316L / 1.4404; PEEK (polyether ether ketone); FKM	
Housing materials	stainless steel 316L / 1.4404; PBT-GF 20; FKM; TPE	
Weight	[kg]	0.532

### Electrical connection

Connection	M12 connector; gold-plated contacts	
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#### Wiring

Core colors  
 BN brown  
 BU blue  
 WH white



Colours to DIN EN 60947-5-2

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OUT: Analog output

### Remarks

Remarks	<sup>1)</sup> to EN50178, SELV, PELV MW = measured value MEW = final value of the measuring range
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Pack quantity	[piece]	1
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