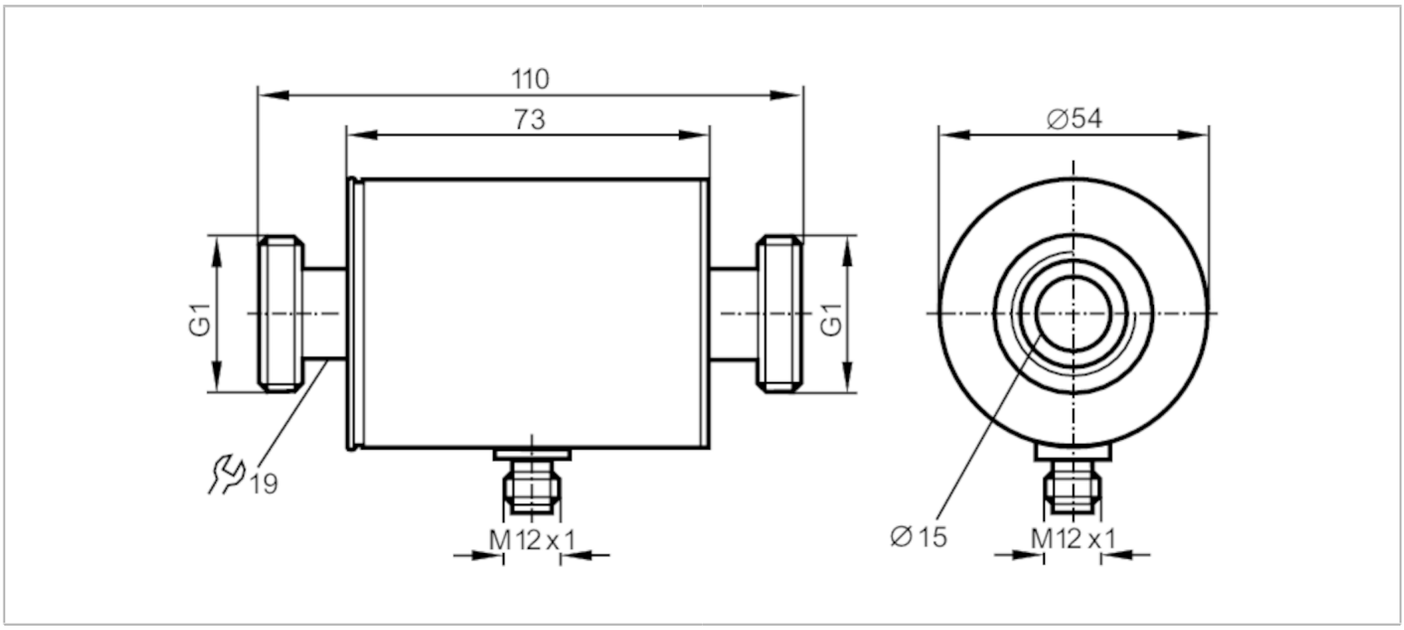
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# SM8050

## Magnetic-inductive flow meter

SMR11GGX10KG/US




| | | | |
|---|---|---|---|
| **Product characteristics** | | | |
| Number of inputs and outputs | | Number of analogue outputs: 1 | |
| Measuring range | [l/min] | 0.2...100 | |
| Process connection | | threaded connection G 1 external thread DN25 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: ≥ 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 analogue outputs: 1 | |
| **Outputs** | | | |
| Total number of outputs | | 1 | |

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## Magnetic-inductive flow meter

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| | | | |
|---|---|---|---|
| Output signal | | analogue signal; IO-Link; (configurable) | |
| Permanent current rating of switching output DC | [mA] | 250 | |
| 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...100 | |
| **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 | 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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## Magnetic-inductive flow meter

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| Mechanical data | | |
|---|---|---|
| Weight | [g] | 575 |
| 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 1 external thread DN25 flat seal |

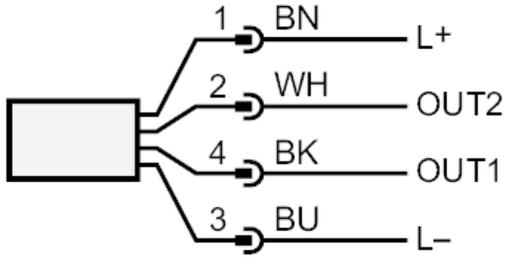
| Remarks | |
|---|---|
| Remarks | MW = measured value |
| | MEW = Final value of the measuring range |
| Pack quantity | 1 pcs. |

## Electrical connection

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




### Connection




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

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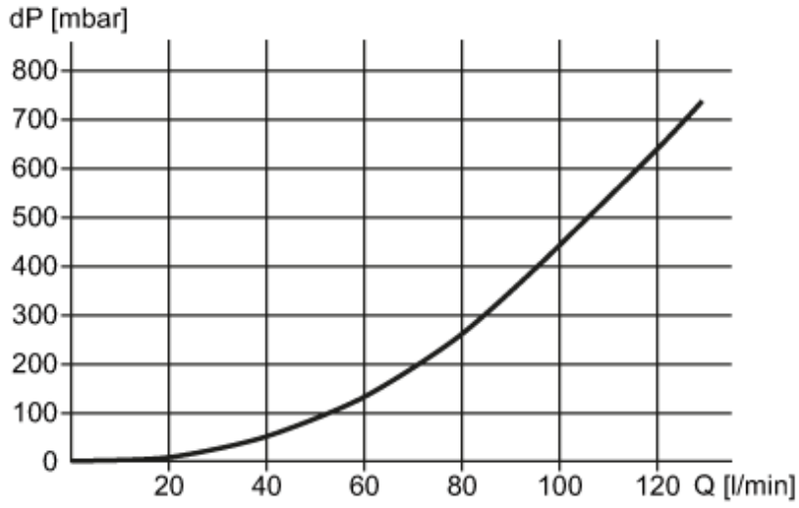
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## Magnetic-inductive flow meter

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## Diagrams and graphs

Pressure loss




dP Pressure loss

Q volumetric flow quantity