

DIGITAL FLOW SENSORS

DIGITAL SINGLE ZONE MONITOR



Technical Description:

Compact Inline Single Zone Flowmeter with a rotatable colour display showing both flow and temperature on a single screen.

Using the vortex principle this type of flowmeter calculates the flow based on pressure meaning there are no moving parts and making it the perfect choice for injection moulding applications. Alarm limits can be set on both flow and temperature and an alarm output signal can be wired into the injection moulding machine to stop production in the event of a cooling issue.

Properties:

Basic

| | |
|-------------------------|---|
| Max Pressure (Max 40°C) | 12 Bar |
| Operating Temperature | -10°C to +90°C |
| Ambient Temperature | 0°C to +60°C |
| Material | Stainless Steel body and connectors |
| Protection class | IP65/67 |
| Process connection | Threaded, G 3/4", DN20 |
| Fluid Application | Group 2 Fluids (Pressure Equipment Directive) |

Electrical:

| | |
|---------------------------|--|
| Operating Voltage | 18-30 VDC |
| Power-on Delay time | < 3 seconds |
| Output signal | Switching signal Frequency Signal IO-Link – revision 1.1 |
| Output max switching | 2.5 VDC |
| Output current rating | 100 mA |
| Output function | Normal Open / Normal Closed (adjustable) |
| Number of digital outputs | 2 |

Sensors and connectors:

| | |
|----------------------|---|
| Flow ranges | 1-20 L/min 2-40 L/min 5-100 L/min |
| Flow accuracy | +/-2 % FS |
| Temperature accuracy | +/-1 °C |
| Connector type | M12 Connector 4 Pins |

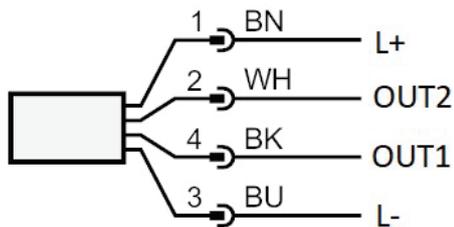


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Connector Diagram:



- 1) Power, V+
- 2) OUT2
- 3) Power, V-
- 4) OUT1

OUT1 signal

- Flow monitoring
- Switching output
- Frequency output
- IO-Link

OUT2 signal

- Flow monitoring and temperature monitoring
- Switching output
- Frequency output

Wire coloring, according to DIN EN 60947-5-2

- 1) Brown
- 2) White
- 3) Black
- 4) Blue

Flow and Pressure:

