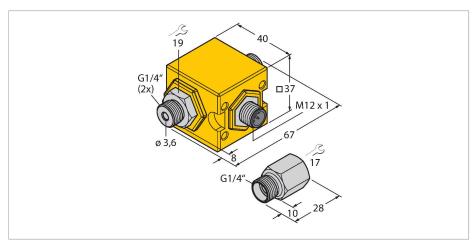


FCIC-G1/4A4P-LIL-H1141/2.0

Flow Monitoring – Compact Inline Flow Sensors of the FCIC Series

Analog Output 4...20 mA Linearized for Water



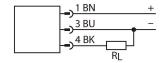
Technical data

ID	6870784		
Туре	FCIC-G1/4A4P-LIL-H1141/2.0		
Mounting conditions	Inline sensor		
Flow operating range	0.052 l/min		
Stand-by time	typ. 10 s (215 s)		
Switch-on time	typ. 1 s (0.510 s)		
Medium temperature	0+60 °C		
Ambient temperature	0+60 °C		
Electrical data			
Operating voltage	21.626.4 VDC		
Current consumption	≤ 70 mA		
Output function	Analog output		
	420 mA		
Current output	420 mA		
Current output Protection class	420 mA IP67		
·			
Protection class			
Protection class Mechanical data	IP67		
Protection class Mechanical data Design	IP67 Inline		
Protection class Mechanical data Design Housing material	Inline Plastic, PBT-GF30		
Protection class Mechanical data Design Housing material Sensor material	Inline Plastic, PBT-GF30 Stainless steel, 1.4571 (AISI 316Ti)		
Protection class Mechanical data Design Housing material Sensor material Electrical connection	Inline Plastic, PBT-GF30 Stainless steel, 1.4571 (AISI 316Ti) Connector, M12 × 1		
Protection class Mechanical data Design Housing material Sensor material Electrical connection Pressure resistance	Inline Plastic, PBT-GF30 Stainless steel, 1.4571 (AISI 316Ti) Connector, M12 × 1 10 bar		
Protection class Mechanical data Design Housing material Sensor material Electrical connection Pressure resistance Process connection	Inline Plastic, PBT-GF30 Stainless steel, 1.4571 (AISI 316Ti) Connector, M12 × 1 10 bar		

Features

- Thermodynamic operating principle
- If low monitoring of water
- Ready for use, no alignment
- Operating range 0.05...2.0 l/min
- Initial value 4 mA at 0 l/min
- End value 20 mA at 2 l/min
- Load resistance, 200 ... 500 Ohm
- Operating voltage side polarized
- ■Analog output 4...20 mA
- Linearized for water
- Compact design
- ■Incl. adapter

Wiring diagram



Functional principle

The FCIC inline flow sensors operate on the thermodynamic principle.

Depending on the version the sensors detect aqueous media from 0.05 to 2 l/min. In addition to the classic transistor switching output there is also a linear 4 ... 20 mA and a linear pulse output available with a clock rate of 1 ml/pulse.

The sensors are already pre-configured and must no longer be matched by the customer. They are therefore immediately ready for operation.

To ensure a linear signal over the entire coverage, the sensors must be operated with the supplied adapter. The sensors with analog and pulse output provide a linear signal proportional to the flow rate in the specified operating range. However, it must be noted that water additives can lead to linear deviation.

In addition, the stable and small-scale design makes the sensors resistant to moisture and vibration. It also simplifies the integration into already existing and new applications. Not least in hard-to-reach places the FCIC play to their strengths.



Mounting instructions

Mounting	All sensors of the FCIC series are used with an adapter. This ensures a linear signal
adapter	over the entire coverage. The adapter is screwed on to the process connection at the infeed side.
Mounting position	In order to minimize potential misinterpretations due to disturbance, it is recommended to position the sensor with a minimum separation distance of 3 x di before and 5 x di after bends, changes in cross section, valves, etc If deposits are likely to built up, it is recommended to clean the sensor at regular intervals and to select the associated service interval accordingly. If the sensor is mounted in vertical piping systems, it is recommended to position the sensor within the riser.

Accessories

Dimension drawing	Туре	ID	
M12x1 1/2 14 9 16.2 48.5 48.5	RKC4.4T-P7X2-10/TXL	6626184	Connection cable, M12 female connector, straight, 4-pin, LED, cable length: 10 m, jacket material: PUR, black; cULus approval
M12 x 1 0 15 14 + 11.5 +	RKC4.4T-2/TXL	6625503	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
0 15 M12x1 26.5 32	WKC4.4T-2/TXL	6625515	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval