

TURCK

Industrial
Automation

**INLINE
FLOW RATE
SENSORS
FTCI
WITH DISPLAY**

MULTIFUNCTIONAL



TURCK

Industrial
Automation



www.turck.com

Hans Turck GmbH & Co. KG
45472 Mülheim an der Ruhr,
Germany
Witzlebenstraße 7
Tel. +49 (0) 208 4952-0
Fax +49 (0) 208 4952-264
E-Mail more@turck.com
Internet www.turck.com

D101566 1006

INLINE FLOW RATE SENSORS FTCI WITH DISPLAY - FLOW RATE AND TEMPERATURE MONITORING

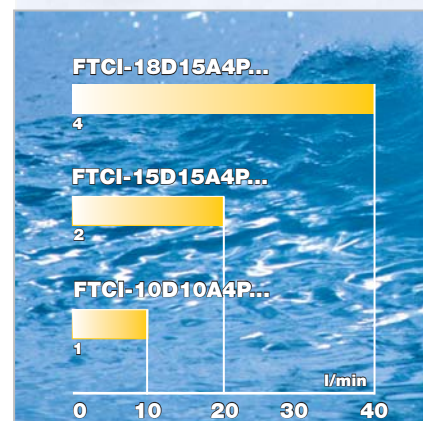


The thermal inline flow rate sensors FTCI are equipped with a 3-digit 7-segment display to indicate the actual flow rate in [l/min]. These sensors are particularly suited for flow rate monitoring within cooling circuits due to their fast response times within seconds and their reliable and stable value display, even if the application is exposed to strong temperature fluctuations.

These practical devices with a multitude of parameterisation options feature an extremely robust PBT housing with compact dimensions of 100 x 43 x 72 mm (h x w x d). The process connection is established via a compression ferrule fitting for smooth pipes with an outside diameter of 10, 15 or 18 mm. Alternatively, it is possible to use an adapter for outside pipe diameters of 10 or 18 mm for conversion to G1/4 or G1/2 threads (see accessories).

Functions and Features

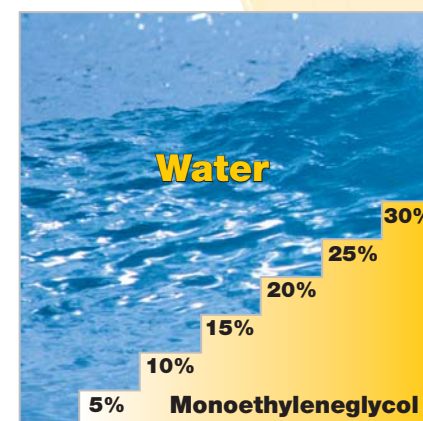
- Sensor programming via front buttons (access code protection)
- Devices with two switching outputs or with one switching output plus one linear 4...20 mA analogue output
- Programmable n.o./n.c. and freely adjustable switch-points within the entire operating range



This sensor series is designed for all kinds of flow monitoring applications, but is particularly suited for continuous flow rate monitoring and display. The sensor's operating range is specified with 1...40 l/min.

Even if glycol is added to the medium, for instance, to prevent icing of the cooling circuit, the device can be conveniently adapted to the modified thermal properties of the liquid: simply enter the glycol content (0 to 30 %) via the push button and the parameterisation function of the device.

- Medium selection: 0...30 % glycol
- Switching output either for flow or temperature monitoring (-10...+90 °C)
- Switch-on and switch-off delay adjustable between 0 and 50 s
- Signal filter for averaging measuring signal in a range of 1...8 s
- Reference function for modification of the flow rate value by ±25 %
- M12 x 1 connection

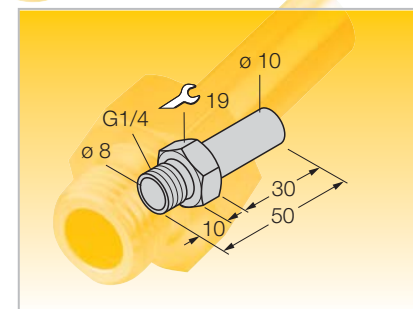


Technical Data

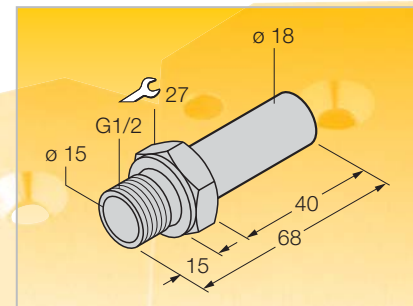
Ident-no.	Type code	Process connection outside pipe diameter	Output function	Operating range
6870041	FTCI-10D10A4P-2UP8X-H1141	10 mm	2 x pnp, N.O./N.C.	1...10 l/min
6870042	FTCI-10D10A4P-LI-UP8X-H1141	10 mm	1 x pnp, N.O./N.C. plus 4...20 mA	1...10 l/min
6870043	FTCI-15D15A4P-2UP8X-H1141	15 mm	2 x pnp, N.O./N.C.	2...20 l/min
6870044	FTCI-15D15A4P-LI-UP8X-H1141	15 mm	1 x pnp, N.O./N.C. plus 4...20 mA	2...20 l/min
6870045	FTCI-18D15A4P-2UP8X-H1141	18 mm	2 x pnp, N.O./N.C.	4...40 l/min
6870046	FTCI-18D15A4P-LI-UP8X-H1141	18 mm	1 x pnp, N.O./N.C. plus 4...20 mA	4...40 l/min

Operating voltage 21...26 VDC; Ambient temperature 0...+60 °C; Medium temperature -10...+90 °C; Pressure resistance 20 bar

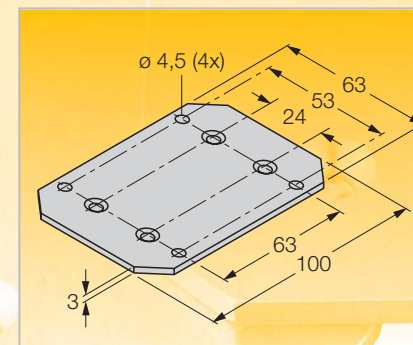
Accessories



Adapter FTCI-G1/4A4-D10/L050 (Ident-no. 6870151) for conversion from Ø 10 mm to G1/4.



Adapter FTCI-G1/2A4-D18/L068 (Ident-no. 6870150) for conversion from Ø 18 mm to G1/2.



The mounting panel FTCI-MP01AL (Ident-no. 6870040) can be attached to the sensor housing (matching screws supplied). The panel is used for front mounting.

