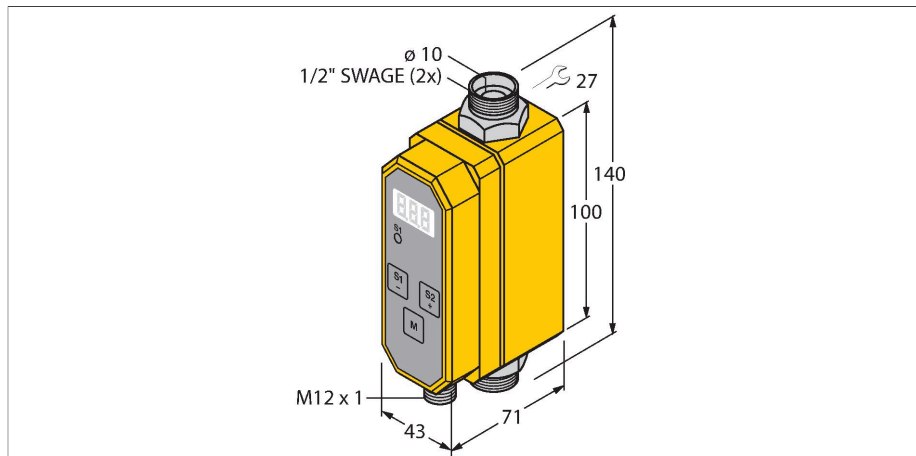


FCI-D10A4P-2ARX-H1160/D205

Flow Monitoring – Inline Sensor with Integrated Processor

Relay Output 24 VDC NO



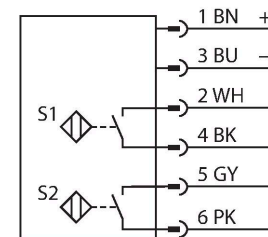
Features

- Compact inline flow sensor
- Calorimetric principle
- Monitoring of flow rate
- Monitoring of the medium temperature
- For water-glycol mixtures and HT110/135 Galden fluid
- Parametrized via button
- Protected by software code
- Operating range 1.9...19 l/min
- 2 relay switching outputs
- Switching outputs 24 VDC NO
- Switchpoints freely adjustable

Technical data

ID	6870681
Type	FCI-D10A4P-2ARX-H1160/D205
Special version	D205 Corresponds to:FCI compact, programmable with 7-segment display, cutting ring fitting for 1/2" pipe, internal diameter 10 mm, temperature indication, 3 fluids: Water, water-glycol mix, Galden HT110/HT135, 2x relay output with NO contact
Mounting	Inline sensor
Application area	Flow rate and temperature monitoring of water; water/glycol mix or Galden fluid HT110/135
Flow operating range	1.9...19 l/min
Stand-by time	5...15 s
Switch-on time	1...8 s
Switch-off time	1...8 s
Temperature gradient	≤ 400 K/min
Medium temperature	-10...+95 °C
Ambient temperature	-20...+60 °C
Electrical data	
Operating voltage U_B	21.6...26.4 VDC
Current consumption	≤ 50 mA
Output function	Relay output, NO contact
Short-circuit protection	no
AC switching current	0.5 A

Wiring diagram



Functional principle

The function of the inline flow sensors is based on the thermo-dynamic principle. Heat is generated in a measuring tube and absorbed by the flowing medium. The transported heat loss is thus a measure of the flow speed. Thus TURCK's wear-free flow sensors reliably monitor the flow of gaseous and liquid media. A low pressure drop and fast response to flow rate variations are the outstanding features of these devices.

Technical data

DC switching current	0.5 A
AC switching voltage	36 VAC
DC switching voltage	30 VDC
Protection class	IP65
MTBF	265 Years acc. to SN 29500 (Ed. 99) 40 °C
Mechanical data	
Design	Inline
Housing material	Plastic, POM
Sensor material	Stainless steel, 1.4571 (AISI 316Ti)
Max. tightening torque of housing nut	30 Nm
Electrical connection	Connector, M12 × 1
Process Pressure	10 bar
Process connection	1/2" Swagelok
Tests/approvals	