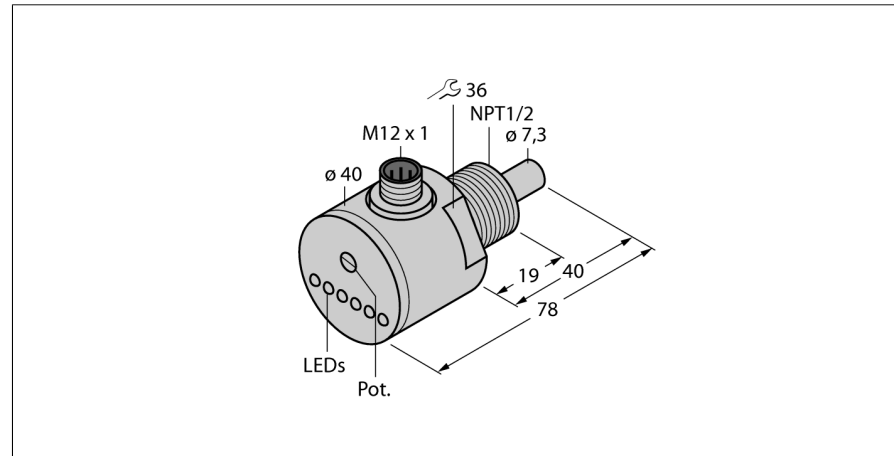
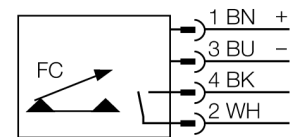


**Flow sensor**  
**Immersion sensor with integrated processor**  
**FCS-N1/2A4-ARX-H1140**



- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer
- LED band
- 4-wire DC, 21...26 VDC
- NO contact, relay output
- Plug-in device, M12 x 1

**Wiring diagram**



**Type code** FCS-N1/2A4-ARX-H1140  
**Ident no.** 6871035

**Operating range water** 1...150cm/s  
Oil operating range 3...300 cm/s  
Stand-by time typ. 8 s (2...15 s)  
Switch-on time typ. 2 s (1...15 s)  
Switch-off time typ. 2 s (1...15 s)  
Temperature jump, response time max. 12 s  
Temperature gradient ≤ 250 K/min  
Medium temperature - 20...80 °C

**Operating voltage** 21...26VDC  
No-load current  $I_0$  ≤ 70 mA  
Output function Relay output, NO contact  
Rated operational current 1 A  
Short-circuit protection no  
Reverse polarity protection yes  
AC switching voltage 30 VAC  
DC switching voltage 36 VDC

**Housing material** stainless steel, V4A (1.4571)  
Sensor material stainless steel, AISI 316Ti  
Max. tightening torque housing nut 100 Nm  
Connection male, M12 x 1  
Pressure resistance 100 bar  
Process connection NPT 1/2"

**Switching state** LED chain green / yellow / red  
Flow state display LED chain, red (1x), green (5x)  
Indication: Drop below setpoint LED red  
Indication: Setpoint reached LED yellow  
Indication: Setpoint exceeded 4 x LEDs green  
LED display red = 4 mA  
1 x green > 4 mA  
2 x green > 8 mA  
3 x green > 12 mA  
4 x green > 16 mA  
5 x green = 20 mA

**Functional principle**

Our insertion - flow sensors operate on the principle of thermodynamics. The measuring probe is heated by several °C as against the flow medium. When fluid moves along the probe, the heat generated in the probe is dissipated. The resulting temperature is measured and compared to the medium temperature. The flow status of every medium can be derived from the evaluated temperature difference. Thus TURCK's wear-free flow sensors reliably monitor the flow of gaseous and liquid media.