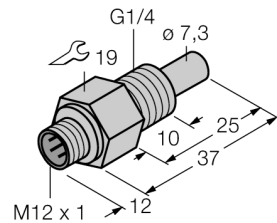


# Flow monitoring

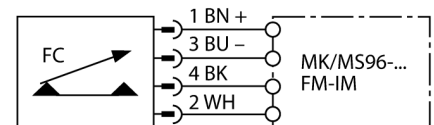
## Immersion sensor without integrated processor

### FCS-G1/4A4-NA-H1141



- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer on processor
- Status indicated via LED chain on signal processor
- Plug-in device, M12 x 1
- 4-wire connection to the processor

#### Wiring diagram



#### 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.

|                  |                     |
|------------------|---------------------|
| <b>Type code</b> | FCS-G1/4A4-NA-H1141 |
| Ident-No.        | 6870304             |
| Ident-No (TUSA)  | M6870304            |

|                                 |                        |
|---------------------------------|------------------------|
| <b>Mounting</b>                 | insertion style sensor |
| Water Operating Range           | 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            |

|                  |      |
|------------------|------|
| <b>IP Rating</b> | IP67 |
|------------------|------|

|                                    |                               |
|------------------------------------|-------------------------------|
| <b>Housing material</b>            | stainless steel, V4A (1.4571) |
| Sensor material                    | stainless steel, AISI 316Ti   |
| Max. tightening torque housing nut | 30 Nm                         |
| Connection                         | male, M12 x 1                 |
| Pressure resistance                | 100 bar                       |
| Process connection                 | G 1/4"                        |

**Flow monitoring**  
**Immersion sensor without integrated processor**  
**FCS-G1/4A4-NA-H1141**



**Wiring accessories**

| Type code     | Ident-No. | Description  | Design |
|---------------|-----------|--|--------|
| RKC4.4T-2/TXL | 6625503   | Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PUR, black; cULus approval; other cable lengths and qualities available, see <a href="http://www.turck.com">www.turck.com</a> |        |
| WKC4.4T-2/TXL | 6625515   | Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PUR, black; cULus approval; other cable lengths and qualities available, see <a href="http://www.turck.com">www.turck.com</a>   |        |
| RKC4.4T-2/TEL | 6625013   | Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see <a href="http://www.turck.com">www.turck.com</a> |        |
| WKC4.4T-2/TEL | 6625025   | Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see <a href="http://www.turck.com">www.turck.com</a>   |        |