



## Flow Sensor ST

Flow monitor according to the thermodynamic principle for liquids



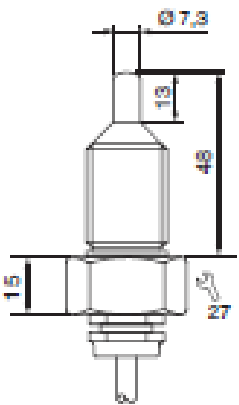
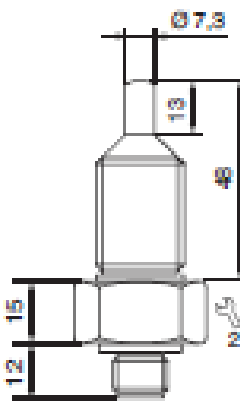
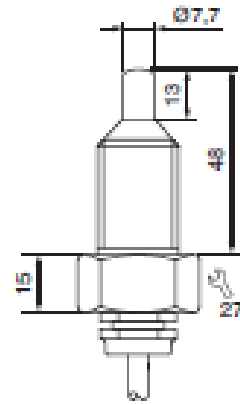
- Suitable for food
- Stainless steel
- High pressure stability
- Metal plug connection / cable connection

D-EN-ST-20190401



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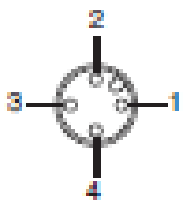
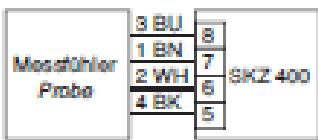
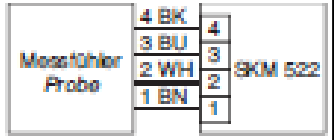
| Technical Data                         |                                                                                    |                                                                                     |                                                                                      |
|----------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Design                                 | G $\frac{1}{2}$                                                                    | G $\frac{1}{2}$                                                                     | G $\frac{1}{2}$ PTFE                                                                 |
| Dimensions                             |  |  |  |
| Detection range [cm/s]<br>Water<br>Oil | 1...150<br>3...300                                                                 | 1...150<br>3...300                                                                  | 1...70<br>2...100                                                                    |
| Sensor length [mm]                     | 48                                                                                 | 48                                                                                  | 48                                                                                   |
| Type                                   | STK 412 K-A4                                                                       | STK 421 S-A4                                                                        | ST 421 K-F                                                                           |
| ID-No.                                 | P10412                                                                             | P10414                                                                              | P10431                                                                               |
| Medium temperature [°C]                | -20...+80                                                                          |                                                                                     | -10...+70                                                                            |
| Temperature gradient [K/min]           | 250                                                                                |                                                                                     | 1                                                                                    |
| Start-up time typ. [s]                 | 8 (2...15)                                                                         |                                                                                     | 60 (40...100)                                                                        |
| Reaction time typ. [s]                 | 2 (1...13)                                                                         |                                                                                     | 30 (10...50)                                                                         |
| Compressive strength [bar]             | 100                                                                                |                                                                                     | 5                                                                                    |
| Sensor material                        | ASI 316 TI, different materials on request                                         |                                                                                     | PTFE                                                                                 |
| Protection [EN 60529]                  | PI 68                                                                              | IP 67                                                                               | IP 68                                                                                |

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| Technical Data                                                                                                                |                                                                                    |                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Type                                                                                                                          | STK 412 K-A4                                                                       | STK 421 S-A4                                                                        | ST 421 K-F                                                                           |
| Connection                                                                                                                    | 2 m PVC-cable<br>4x0.25 mm <sup>2</sup>                                            | M12 connector                                                                       | 2 m FEP-cable<br>4x0.25 mm <sup>2</sup><br>cable gland PVDF                          |
|  <p>1: BN<br/>2: WH<br/>3: BU<br/>4: BK</p> |  |  |  |

| Accessories   |
|---------------|
| Amplifier SKM |
| Amplifier SKZ |

### Important instructions!

Technical changes and errors reserved.

Pictures can be similar.

The operating instructions belonging to this device must be observed! Download at [www.schmidt-messtechnik.com](http://www.schmidt-messtechnik.com).