



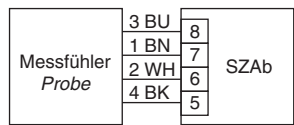
**Ex-Probe** | Device category 2G and 2D

**Ex**-Device category 2G  
Installation in Zone 1 (gas)

**Ex**-Device category 2D  
Installation in Zone 21 (dust)



| Design  | G1/4  | G1/2        | G1/2        | NPT1/2      | G3/4        |
|---|---|-------------|-------------|-------------|-------------|
| <b>Dimensions</b>                               |   |             |             |             |             |
| Detection range [cm/s]                          | water 1...100 / oil 3...200   |             |             |             |             |
| Sensor length [mm]                              | 25  | 31          | 48          | 40          | 48          |
| Connection                                      | fixed cable   | fixed cable | fixed cable | fixed cable | fixed cable |
| ID-No.  | P11144  | P11145      | P11146      | P11147      | P11174      |
| Type  | ST 101 K  | ST 102 K    | ST 103 K    | ST 104 K    | ST 106 K    |
| Ex area of use                                  | Gas: Zone 1 / Dust: Zone 21   |             |             |             |             |
| Certificate No.                                 | TÜV 97 ATEX 1218  |             |             |             |             |
| Ex marking                                      | Gas: <b>Ex</b> II 2 G Ex ib IIC T6 Gb<br>Dust: <b>Ex</b> II 2 D Ex ib IIIC T125 °C Db                                   |             |             |             |             |
| Ambient temperature and medium temperature [°C] | Gas:<br>T6: -20 ≤ Ta ≤ +40<br>T5: -20 ≤ Ta ≤ +55<br>T4: -20 ≤ Ta ≤ +85<br>T3: -20 ≤ Ta ≤ +85<br>Dust:<br>-20 ≤ Ta ≤ +85 |             |             |             |             |
| Maximum values                                  | Ui = 13.65 V / li = 200 mA / Pi = 0.69 W / Ci = 0.27 nF / Li = 1.30 µH  |             |             |             |             |
| Start-up time typ. [s]                          | 8 (2...18)  |             |             |             |             |
| Reaction time typ. [s]                          | 2 (1...13)  |             |             |             |             |
| Compressive strength [bar]                      | 60  |             |             |             |             |
| Housing material                                | AISI 316 Ti • different materials on request  |             |             |             |             |
| Protection [EN 60529]                           | IP 67   |             |             |             |             |
| Connection                                      | 2 m PUR-cable 4x0.25 mm <sup>2</sup>  |             |             |             |             |



(probes with cable length > 2 m are available on request)

**Note:** for the connection to amplifier SZAb..., page 1.104-1.105