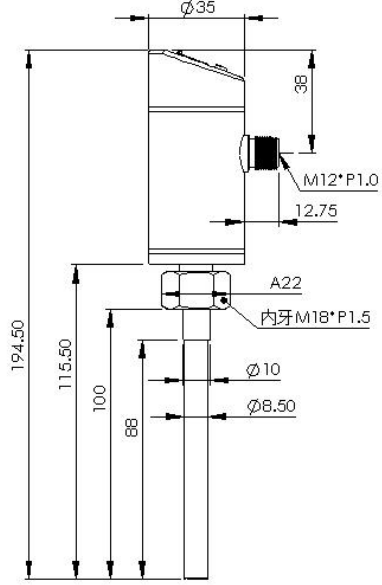
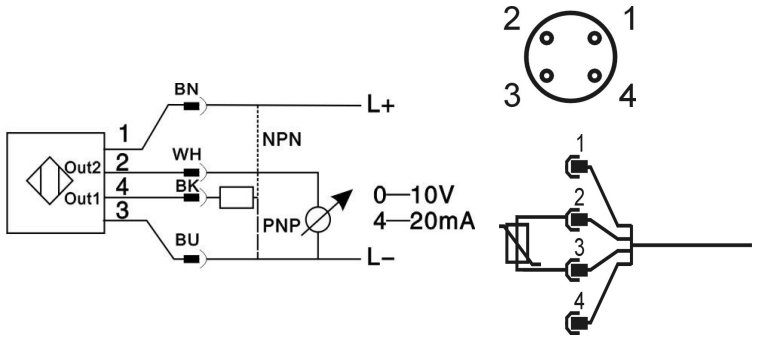


|                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>TA1006</p> <p>Electronic Temperature Sensors</p> <p>M12 socket</p> <p>Connection: Internal thread M18 x 1.5</p> <p>Programmable</p> <p>Switching + Analogue output</p> <p>3 digit display</p> <p>Probe length L=100mm</p> <p>Sensing range</p> <p>-40...150°C</p> <p>-40...302°F</p> |  <p>CE RoHS</p>                                                                                                                              |
| Applications                                                                                                                                                                                                                                                                            | Liquid and gas                                                                                                                                                                                                                 |
| Output                                                                                                                                                                                                                                                                                  | <p>NO  /NC </p> <p>Analogue output 4...20mA, 0...10V</p> |
| Supply voltage[V]                                                                                                                                                                                                                                                                       | 18...36 DC                                                                                                                                                                                                                     |
| Max. overload current[mA]                                                                                                                                                                                                                                                               | 300                                                                                                                                                                                                                            |
| Short-circuit protection                                                                                                                                                                                                                                                                | Pulsed                                                                                                                                                                                                                         |
| Reverse polarity protection                                                                                                                                                                                                                                                             | Yes                                                                                                                                                                                                                            |
| Overload protection                                                                                                                                                                                                                                                                     | Yes                                                                                                                                                                                                                            |
| Watchdog                                                                                                                                                                                                                                                                                | Yes                                                                                                                                                                                                                            |
| Voltage drop[V]                                                                                                                                                                                                                                                                         | <2                                                                                                                                                                                                                             |
| Current consumption[mA]                                                                                                                                                                                                                                                                 | <50                                                                                                                                                                                                                            |
| Analogue output                                                                                                                                                                                                                                                                         | 4...20mA(Rmax:5000Ohm);0...10V(Rmin:1000Ohm)                                                                                                                                                                                   |
| Setting range                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                |
| Analogue start point ASP[°C/°F]                                                                                                                                                                                                                                                         | -40...140 / -40...284                                                                                                                                                                                                          |
| Analogue end point AEP[°C/°F]                                                                                                                                                                                                                                                           | -30...150 / -22...302                                                                                                                                                                                                          |
| Switching point SP[°C/°F]                                                                                                                                                                                                                                                               | -39.5...150 / -39...302                                                                                                                                                                                                        |
| Reset point rP[°C/°F]                                                                                                                                                                                                                                                                   | -40...149.5 / -40...301                                                                                                                                                                                                        |
| In steps of                                                                                                                                                                                                                                                                             | 0.5/1                                                                                                                                                                                                                          |
| Programming options                                                                                                                                                                                                                                                                     | <p>Hysteresis range / Window function, NO / NC</p> <p>Min/Max, Factory reset, °C/°F</p>                                                                                                                                        |
| Adjustment of switching point                                                                                                                                                                                                                                                           | via pushbuttons                                                                                                                                                                                                                |
| Accuracy                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                |
| Switching accuracy[°C/°F]                                                                                                                                                                                                                                                               | ±0.2/±0.36                                                                                                                                                                                                                     |
| Analogue accuracy[°C/°F]                                                                                                                                                                                                                                                                | ±(0.2/0.36+0.4% Measuring range)                                                                                                                                                                                               |
| Display[°C/°F]                                                                                                                                                                                                                                                                          | ±( 0.2/0.36+1/2)                                                                                                                                                                                                               |
| Switching output [°C/°F]                                                                                                                                                                                                                                                                | 0.5/1                                                                                                                                                                                                                          |
| Analogue output[°C/°F]                                                                                                                                                                                                                                                                  | 0.125/0.23                                                                                                                                                                                                                     |
| Display[°C/°F]                                                                                                                                                                                                                                                                          | 0.5/1                                                                                                                                                                                                                          |
| Temperature drift(/10K)                                                                                                                                                                                                                                                                 | 0.1                                                                                                                                                                                                                            |
| Startup delay time[s]                                                                                                                                                                                                                                                                   | 1.5                                                                                                                                                                                                                            |

|                                                                                                                                                                           |                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Measuring/Display cycle[ms]                                                                                                                                               | 200                                                                                  |
| Medium temperature [°C/°F]                                                                                                                                                | -40...150/-40...302                                                                  |
| Ambient temperature [°C/°F]                                                                                                                                               | -25...80/-13...176                                                                   |
| Storage temperature[°C/°F]                                                                                                                                                | -40...100/-40...212                                                                  |
| Insulation resistance[MΩ]                                                                                                                                                 | >100 ( 500V DC)                                                                      |
| Protection/Enclosure Rating                                                                                                                                               | IP68                                                                                 |
| Dimensions[mm]                                                                                                                                                            |    |
| ESD[KV]                                                                                                                                                                   | III                                                                                  |
| EFT[KV]                                                                                                                                                                   | III                                                                                  |
| Walkie talkie experiment[M]                                                                                                                                               | 1                                                                                    |
| Shock resistance[g]                                                                                                                                                       | 50                                                                                   |
| Vibration resistance[g]                                                                                                                                                   | 20                                                                                   |
| Housing material                                                                                                                                                          | Stainless steel 304                                                                  |
| Probe material/Wetted Parts                                                                                                                                               | Stainless steel 316L                                                                 |
| Function LED/output status                                                                                                                                                | Red LED                                                                              |
| Connection                                                                                                                                                                | M12 socket                                                                           |
| Wiring<br>Core color<br><br>Programming of the output function:<br>Hno= hysteresis / NO<br>Hnc= hysteresis / NC<br>Fno= window function / NO<br>Fnc= window function / NC |  |