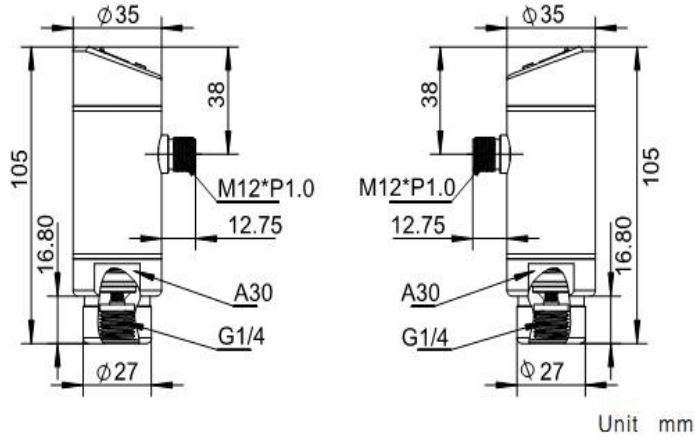
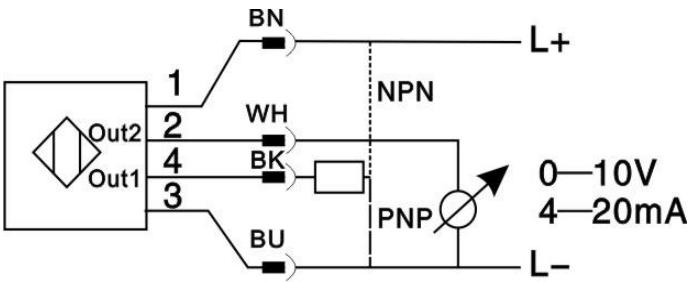


|                                                                                                                                                                                                                          |                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PA1145<br>Electronic Pressure Sensor<br>M12 socket<br>Connection: Internal thread G1/4<br>Programmable<br>Switching + Analogue output<br>3 digit display<br>Sensing range<br>0...50 bar<br>0...725 Psi<br>0...50 kgf/cm2 | <br>CE RoHS                                                                                                                 |
| Applications                                                                                                                                                                                                             | Pressure: corresponding pressure                                                                                                                                                                              |
|                                                                                                                                                                                                                          | Liquid and gas                                                                                                                                                                                                |
| Electric design                                                                                                                                                                                                          | DC PNP / NPN                                                                                                                                                                                                  |
| Output                                                                                                                                                                                                                   | NO  / NC  programmable, 4...20mA or 0...10V |
| Supply voltage[V]                                                                                                                                                                                                        | 18...36DC                                                                                                                                                                                                     |
| Short-circuit protection                                                                                                                                                                                                 | Pulsed                                                                                                                                                                                                        |
| Reverse polarity protection                                                                                                                                                                                              | Yes                                                                                                                                                                                                           |
| Overload protection                                                                                                                                                                                                      | Yes                                                                                                                                                                                                           |
| Watchdog                                                                                                                                                                                                                 | Yes                                                                                                                                                                                                           |
| Voltage drop[V]                                                                                                                                                                                                          | <2                                                                                                                                                                                                            |
| Current consumption[mA]                                                                                                                                                                                                  | <60                                                                                                                                                                                                           |
| Overloading Pressure [bar]                                                                                                                                                                                               | 100                                                                                                                                                                                                           |
| Burst pressure [bar]                                                                                                                                                                                                     | 140                                                                                                                                                                                                           |
| Analogue output OUT2                                                                                                                                                                                                     | 4...20 mA / 0...10V                                                                                                                                                                                           |
| Overload of analogue output[Ohm]                                                                                                                                                                                         | 4...20 mA:Max. (Ub-10V) x 50 / 0...10V:Min. 2000                                                                                                                                                              |
| Switching output OUT1                                                                                                                                                                                                    | NPN/PNP                                                                                                                                                                                                       |
| Overload of switching output [mA]                                                                                                                                                                                        | 300                                                                                                                                                                                                           |
| Setting range                                                                                                                                                                                                            |                                                                                                                                                                                                               |
| Switching point (SP)                                                                                                                                                                                                     | 0.4...50bar                                                                                                                                                                                                   |
| Reset point (rP)                                                                                                                                                                                                         | 0.2...49.8 bar                                                                                                                                                                                                |
| In steps of                                                                                                                                                                                                              | 0.2bar                                                                                                                                                                                                        |
| Programming options                                                                                                                                                                                                      | Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: Current / Voltage output; Output 1 setting: NPN / PNP output                                                        |
| Deviations (% of final value measured)                                                                                                                                                                                   |                                                                                                                                                                                                               |
| Accuracy of switching point                                                                                                                                                                                              | < ±0.5                                                                                                                                                                                                        |
| Characteristic deviation                                                                                                                                                                                                 | < ±0.5                                                                                                                                                                                                        |
| Hysteresis                                                                                                                                                                                                               | < ±0.25                                                                                                                                                                                                       |
| Stability of long-time use                                                                                                                                                                                               | < ±0.5                                                                                                                                                                                                        |
| Ambient temperature [°C/°F]                                                                                                                                                                                              | -25...80/-13...176                                                                                                                                                                                            |
| Medium temperature [°C/°F]                                                                                                                                                                                               | -25...80/-13...176                                                                                                                                                                                            |
| Storage temperature[°C/°F]                                                                                                                                                                                               | -40...100/-40...212                                                                                                                                                                                           |
| Protection/Enclosure Rating                                                                                                                                                                                              | IP68                                                                                                                                                                                                          |
| Insulation resistance[MΩ]                                                                                                                                                                                                | > 100(500 V DC)                                                                                                                                                                                               |

|                               |                                                                                                   |
|-------------------------------|---------------------------------------------------------------------------------------------------|
| Dimension                     |  <p>Unit mm</p> |
| 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                                                                              |
| Medium contacting material    | Ceramic/S316L/FGFKM                                                                               |
| Function Display              |                                                                                                   |
| Switching status LED          | 2 red LED                                                                                         |
| System pressure, function LED | 3 digit segment                                                                                   |
| Connection                    | M12 socket                                                                                        |
| Wiring                        |               |
| Core color                    |                                                                                                   |