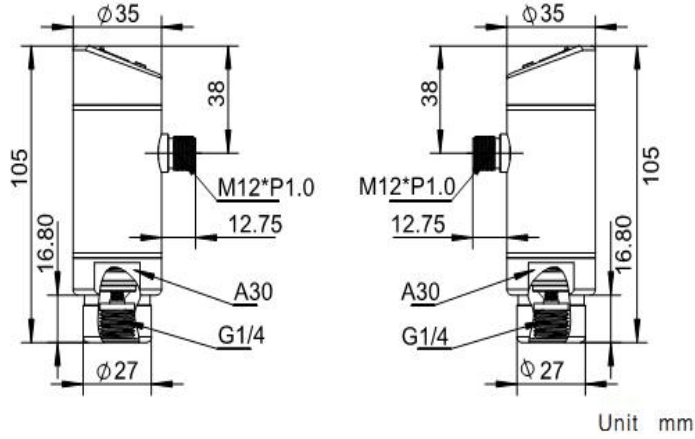
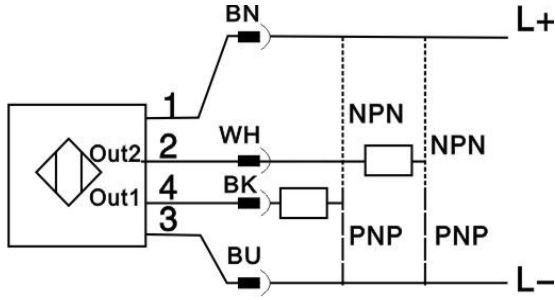
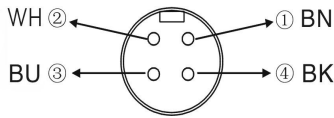


|                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>PE1141</p> <p>Explosion-Proof Pressure Sensor</p> <p>M12 socket</p> <p>Connection: Internal thread G1/4"</p> <p>Programmable</p> <p>Switching + Analogue output</p> <p>4 digit display</p> <p>Sensing range</p> <p>0...2 bar</p> <p>0...29 Psi</p> <p>0...2 kgf/cm2</p> |  <p>CE RoHS Ex NEPSI</p>                                                                                                   |
| Ex-Proof classification                                                                                                                                                                                                                                                    | Ex nA IIC T4 Gc / Ex tD A21 IP67 T90°C                                                                                                                                                                        |
| Applications                                                                                                                                                                                                                                                               | Pressure: corresponding pressure                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                            | Liquid and Air                                                                                                                                                                                                |
| Electric design                                                                                                                                                                                                                                                            | DC PNP / NPN                                                                                                                                                                                                  |
| Output                                                                                                                                                                                                                                                                     | NO  / NC  programmable, 4...20mA or 0...10V |
| Supply voltage[V]                                                                                                                                                                                                                                                          | 20...32DC                                                                                                                                                                                                     |
| Short-circuit protection                                                                                                                                                                                                                                                   | Pulsed                                                                                                                                                                                                        |
| Reverse polarity protection                                                                                                                                                                                                                                                | Yes                                                                                                                                                                                                           |
| Overload protection                                                                                                                                                                                                                                                        | Yes                                                                                                                                                                                                           |
| Watchdog                                                                                                                                                                                                                                                                   | Yes                                                                                                                                                                                                           |
| Voltage drop[V]                                                                                                                                                                                                                                                            | <2                                                                                                                                                                                                            |
| Current consumption[mA]                                                                                                                                                                                                                                                    | <60                                                                                                                                                                                                           |
| Overloading pressure [bar]                                                                                                                                                                                                                                                 | 4                                                                                                                                                                                                             |
| Burst pressure [bar]                                                                                                                                                                                                                                                       | 8                                                                                                                                                                                                             |
| 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)                                                                                                                                                                                                                                                       | 0.02...2bar                                                                                                                                                                                                   |
| Reset point (rP)                                                                                                                                                                                                                                                           | 0.01...1.99 bar                                                                                                                                                                                               |
| In steps of                                                                                                                                                                                                                                                                | 0.01bar                                                                                                                                                                                                       |
| 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...70/-13...158                                                                                                                                                                                            |
| Medium temperature [°C/°F]                                                                                                                                                                                                                                                 | -25...70/-13...158                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                            | When used for non-explosive area:<br>-25...80/-13...176                                                                                                                                                       |

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Storage temperature[°C/°F]                                                          | -40...100/-40...212                                                                  |
| Protection/Enclosure rating                                                         | IP67                                                                                 |
| Insulation resistance[MΩ]                                                           | > 100(500 V DC)                                                                      |
| Dimension                                                                           |    |
| ESD                                                                                 | 6kV                                                                                  |
| EFT                                                                                 | 2kV                                                                                  |
| Walkie talkie experiment[mm]                                                        | <10                                                                                  |
| Shock resistance[g]                                                                 | 50                                                                                   |
| Vibration resistance[g]                                                             | 20                                                                                   |
| Housing material                                                                    | Stainless steel 304                                                                  |
| Probe material/Wetted Parts                                                         | Stainless steel 316L                                                                 |
| Medium contacting material                                                          | Ceramic/SS316L/FKM                                                                   |
| Function Display                                                                    |                                                                                      |
| Switching status LED                                                                | 2 red LED                                                                            |
| System pressure/Function LED                                                        | 4 digit segment                                                                      |
| Connection                                                                          | M12 socket                                                                           |
| Wiring                                                                              |  |
| Core color                                                                          |                                                                                      |
|  |                                                                                      |
| Installation notice                                                                 | Use the wrench to tighten Ex-proof connector with 1.5Nm of torque                    |