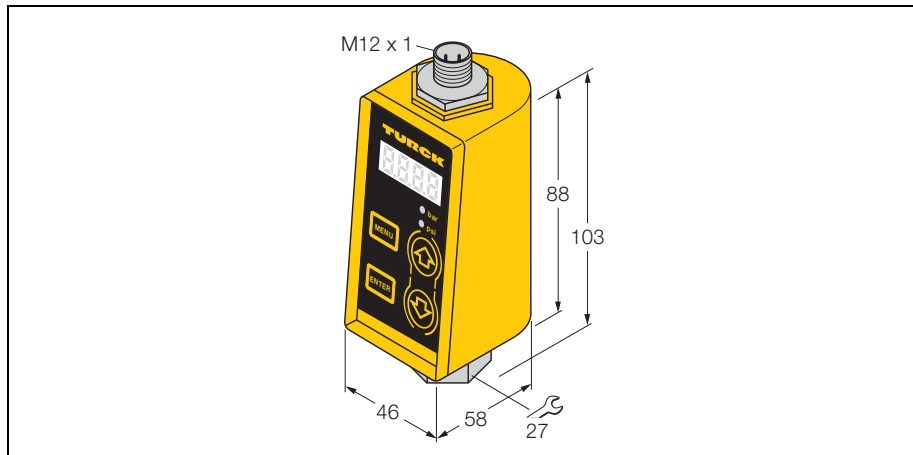
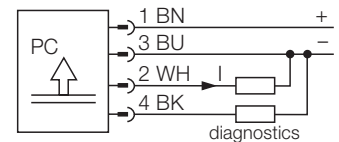


## Pressure sensor with analogue output 4...20 mA PC400-Gi1/4A1M-LI8X-H1141



- robust metal housing
- peak pressure memory
- switch-off delay 5...500 ms
- sensor diagnostic function
- Short-circuit/reverse polarity protection
- UL and CSA approval
- pressure range 0...400 bar

### Wiring diagram



### Function principles

Electronic pressure sensors from TURCK work with piezo-resistive ceramic measuring cells. The deformation, which is caused by the pressure exerted on the measuring cell, is transferred to the thick-film resistors. Consequently, the resistance values of the resistors, which are integrated into a Wheatstone measuring bridge, change. This change in resistance is then processed electronically and displayed as a signal proportional to the pressure.

|                                                     |                                                                                |
|-----------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Type</b>                                         | PC400-Gi1/4A1M-LI8X-H1141                                                      |
| Ident-No.                                           | 6831011                                                                        |
| <b>Operating range</b>                              | 0... 400 bar                                                                   |
| Permitted overpressure                              | ≤ 1200 bar                                                                     |
| Burst pressure                                      | ≥ 1800 bar                                                                     |
| Repeat accuracy                                     | ≤ ± 0,5% of f. v.                                                              |
| Zero shift                                          | ≤ 0,1% of f.v.                                                                 |
| Medium temperature                                  | -15... 80 °C                                                                   |
| Operating temperature                               | -25 ...+ 80 °C                                                                 |
| <b>Rated operational voltage (DC) U<sub>B</sub></b> | 17... 33 VDC                                                                   |
| No-load current I <sub>0</sub>                      | ≤ 80 mA                                                                        |
| Output function                                     | analogue output                                                                |
| Current output                                      | 4... 20 mA                                                                     |
| Load                                                | ≤ 1 kΩ                                                                         |
| Switching cycles                                    | ≥ 10 Mio.                                                                      |
| Degree of protection                                | IP67                                                                           |
| <b>Housing material</b>                             | metal, ZNAl4                                                                   |
| Material pressure connection                        | stainless steel 1.4305 (AISI 303)                                              |
| Material pressure transducer                        | ceramic Al <sub>2</sub> O <sub>3</sub>                                         |
| Mechanical connection                               | G 1/4 interior thread                                                          |
| Vibration resistance                                | 5g(25...200Hz) / 35g(60...2000Hz); IEC 68-2-6                                  |
| Shock                                               | 50 x g (11 ms) , acc.ording to IEC 68-2-27                                     |
| Wiring                                              | connector, M12 x 1                                                             |
| <b>Measuring value/programming</b>                  | LED, 4-digit 7-segment display                                                 |
| Indication unit                                     | LEDs for indication of the output status and choosen pressure unit (bar/PSI)   |
| Reaction time of the display type                   | 3 modes: slow (1 % of f.v.); normal (0,5 % of f.v.); fast (update every 10 ms) |