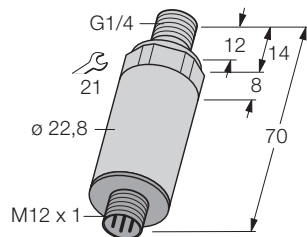
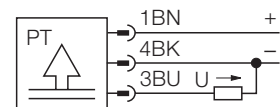


## Pressure sensor pressure transmitter with voltage output PT006R-14-LU2-H1131



- compact and robust construction
- pressure connection with integrated peak pressure aperture
- minimum temperature influence on the accuracy across the entire temperature range -40...85°C
- excellent EMC properties
- pressure range 0...6 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>  | PT006R-14-LU2-H1131  |
| <b>Ident-No.</b>                                       | 6831421  |
| <b>Operating range</b>                                 | 0... 6 bar   |
| Permitted overpressure                                 | ≤ 15 bar   |
| Accuracy (lin. + hys. + rep.)                          | < ± 0,3 % of f. v.   |
| Adjustm. accuracy zero point/full scale                | < ± 0,3 % of f. v.   |
| Response time  | < 2 ms   |
| Temperature coefficient zero point $T_{k0}$            | ≤ ± 0,15 % of f. v./10 K   |
| Temperature coefficient span $T_{kS}$                  | ≤ ± 0,15 % of f. v./10 K   |
| Medium temperature                                     | -40... 85 °C   |
| Ambient temperature                                    | -40... 85 °C   |
| <b>Rated operational voltage (DC) <math>U_B</math></b> | 8... 33 VDC  |
| No-load current $I_0$                                  | ≤ 4 mA   |
| Output function  | analogue output  |
| Voltage output   | 0... 10 V  |
| Load   | ≥ 10 kΩ  |
| Degree of protection                                   | IP67   |
| <b>Housing material</b>                                | metal, A2 1.4305 (AISI 303)  |
| Material pressure connection                           | stainless steel 1.4305 (AISI 303)  |
| Material pressure transducer                           | ceramic $Al_2O_3$  |
| Seal   | fluor caoutchouc   |
| Mechanical connection                                  | G1/4 external thread   |
| Pressure connection spanner size                       | SW 21  |
| Vibration resistance                                   | 20 x g (9...200 Hz, 2...9 Hz with amplit. +/-15 mm), according to IEC 68-2-6 |
| Shock  | 75 x g (11 ms), acc.ording to IEC 68-2-27                                    |
| Wiring   | connector, M12 x 1   |