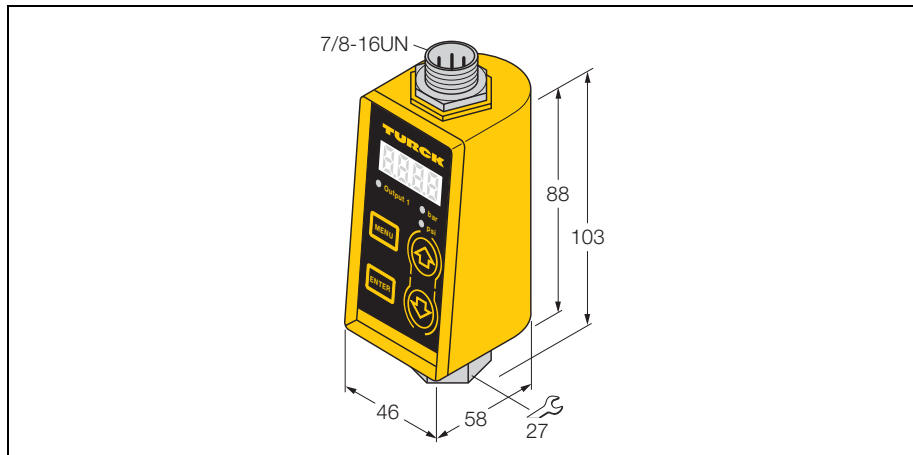
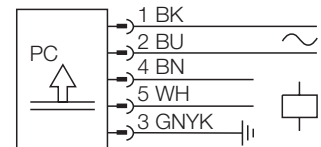


Pressure sensor with relay output PC070-Gi1/4A1M-ARX-B1151



- 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...70 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.

Type	PC070-Gi1/4A1M-ARX-B1151
Ident-No.	6831072
Operating range	0... 70 bar
Permitted overpressure	≤ 280 bar
Burst pressure	≥ 420 bar
Switch point SP1	4.9...70
Release point rP1	3.5...68.6
Hysteresis (switching distance)	2... 95 %
Switch point accuracy	≤ ± 2% of f. v.
Repeat accuracy	≤ ± 0,5% of f. v.
Zero shift	≤ 0,1% of f.v.
Medium temperature	-15... 80 °C
Operating temperature	-25 ...+ 75 °C
Rated operational voltage (AC) U_B	102... 132 VAC
No-load current I ₀	≤ 32 mA
Switching frequency	≤ 50 Hz
Output function	Relay output, normally open
Rated operational current (DC) I _e	2,5 A
Switching cycles	≥ 10 Mio.
Degree of protection	IP67
Housing material	metal, ZNAl4
Material pressure connection	stainless steel 1.4305 (AISI 303)
Material pressure transducer	ceramic Al ₂ O ₃
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, 7/8"
Measuring value/programming	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)