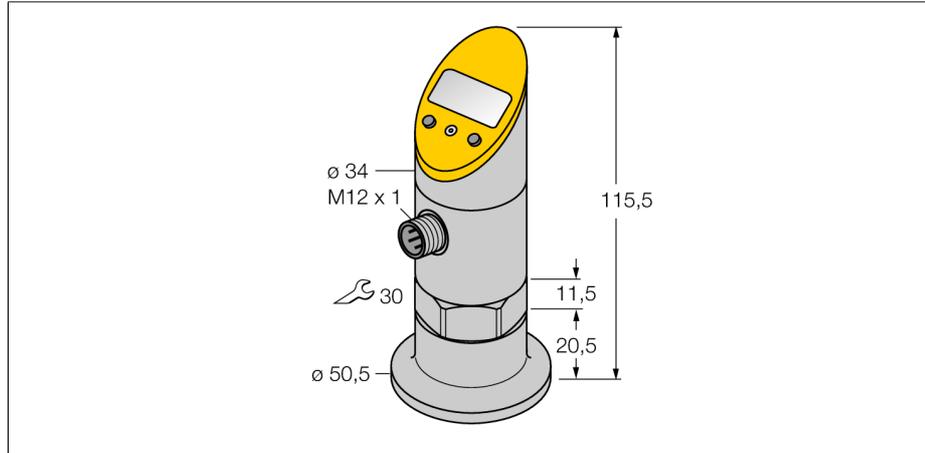
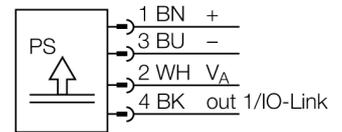


**Pressure transmitter (front-flush)  
with voltage output and PNP/NPN transistor switching output  
PS016V-607-LUUPN8X-H1141**



- Front-flush mounted diaphragm
- Reading of adjusted values without tools
- Secure programming through recessed pushbutton and keylock
- Permanent indication of pressure (bar, psi, kPa, MPa...)
- Peak pressure memory
- Pressure range -1 ... 16 bar rel.

**Wiring diagram**



**Functional principle**

The pressure sensors of the PS series operate with piezo-resistive ceramic measuring cells. The ceramic diaphragm is unbalanced in proportion to the pressure applied. Depending on the sensor type, the voltage produced is made available either as switching or analog output signal. Non-rotatable and rotatable sensors, numerous thread types, front-flush or dead-zone free diaphragms and an accuracy of 0.5% of full scale guarantee highest flexibility and safe process interfacing.

<b>Type</b>	PS016V-607-LUUPN8X-H1141
Ident-No.	6833081
<b>Relative pressure</b>	-1...16bar rel.
Admissible overpressure	≤ 40 bar
Burst pressure	≥ 40 bar
<b>Operating voltage</b>	18...30VDC
No-load current I <sub>0</sub>	≤ 50 mA
Protective measure	SELV; PELV according to EN 50178
Short-circuit/reverse polarity protection	yes/ yes
Protection type and class	IP67/ III
<b>Output 1</b>	Switching output or IO-Link mode
Output 2	analogue output
<b>Output function</b>	NO/NC , PNP/NPN
Switching point accuracy	± 0.5 % of full scale
Repeatability	± 0.1 % of full scale
Voltage drop at I <sub>0</sub>	≤ 2 V
Rated operational current	0.2 A
Switching frequency	≤ 180 Hz
Switching point distance	≥ 0.5 %
Switch point:	(min + 0.005 x range) up to 100% f.s.
Release point(s)	min up to (SP - 0.005 x range)
Switching cycles	≥ 100 mil.
<b>Analogue output</b>	
Operating range	0...10V, 0...5V, 1...6V (3-wire)
Voltage output, programmable	0...10 V/0...5 V/1...6 V/10...0 V/5...0 V/6...1 V
Load	≥ 2 kΩ
Accuracy LHR analog output	± 0.5 % of final value BSL
Response time	< 3 ms
<b>IO-Link</b>	
Communication	specified acc. to version 1.0
Parameterization	FDT / DTM
Transmission physics	corresponds to 3-wire physics (PHY2)
Transmission rate	COM 2 / 38.4 kbps
Process data width	16 bit
Measured value information	14 bit
Switchpoint information	2 bit
Frame type	2.3
<b>Temperature behaviour</b>	&#x0020;
Temperature coefficient zero point T <sub>0</sub>	± 0.15 % of full scale / 10 K
Temperature coefficient span T <sub>is</sub>	± 0.15 % of full scale / 10 K

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<b>Ambient conditions</b>	&#x0020;
Medium temperature	-10...85 °C
Ambient temperature	-40...80 °C
Storage temperature	-40...+80°C
Vibration resistance	20 g (9...2000 Hz), according to IEC 68-2-6
Shock resistance	50 g (11 ms) , according to IEC 61508
<b>Housing</b>	
Housing material	Stainless-steel/plastic, 1.4305 (AISI 303)/PC
material pressure connection	Stainless steel A4 1.4435 (AISI 316L)
Mechanical connection	Tri-Clamp 1 1/2"
Wrench size pressure connection / coupling nut	30/ 30
Connection	connector, M12 x 1
<b>Display</b>	4-digit 7-segment display, rotatable by 180°, disengageable
Switching state	2 x LEDs yellow
Programming options	Start/end value analog output; switch/release point; PNP/NPN; NO/NC contact; hysteresis/window mode; damping; pressure unit; peak pressure memory
Unit display	5 x LEDs green (bar, psi, kPa, MPa, misc)
<b>EMC</b>	EN 61000-4-2 ESD:4 kV CD / 8 kV AD EN 61000-4-3 HF gestraht:15 V/m EN 61000-4-4 Burst:2 kV EN 61000-4-5 Surge: 500 V, 12 Ohm EN 61000-4-6 HF conducted:10 V

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**Accessories**

Type code	Ident-No.	Short text	Dimension drawing
PTS-Cover	6907410	Protective cap	