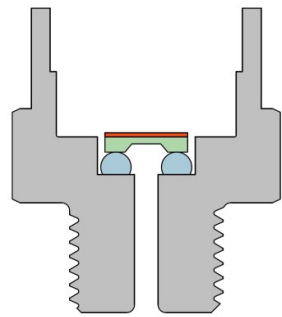


PRESSURE SENSORS

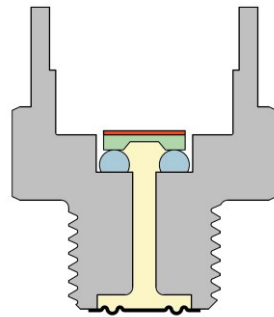
11.2023



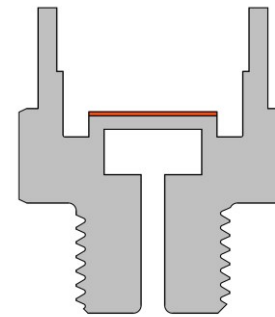
Pressure sensor elements



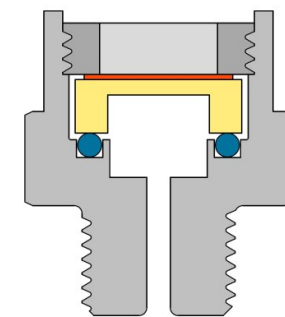
Silicon wetted
(in contact with
media)



Silicon media
isolated



Stainless steel
Thin film

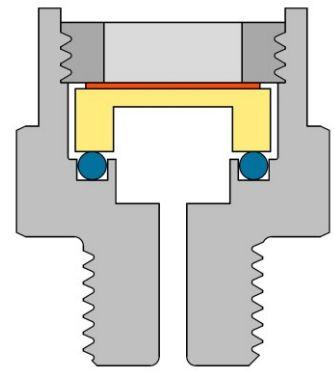
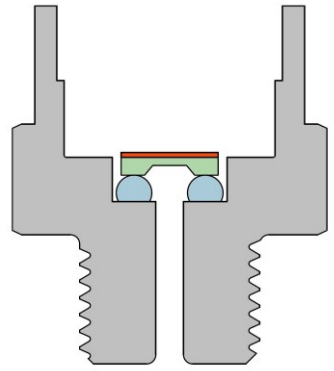


Ceramic
Thick film



Silicon wetted vs. ceramic thick film

Pressure sensor elements



Measuring cell	Medium	Pressure range	Main advantages
Silicon	Filtered / dry / lubricated compressed air neutral gases	MIN: -1 bar MAX: 12 bar	Favorable design
			High accuracy in low pressure / vacuum ranges
			Smallest designs possible
			Insensitive due to measurement electronics on the bac
Ceramic	Fluid group 2 media	MIN: -1 bar MAX: 600 bar	High accuracy with very good long-term stability
			High corrosion resistance
			Resistant to dynamic pressure surges
			High burst strength

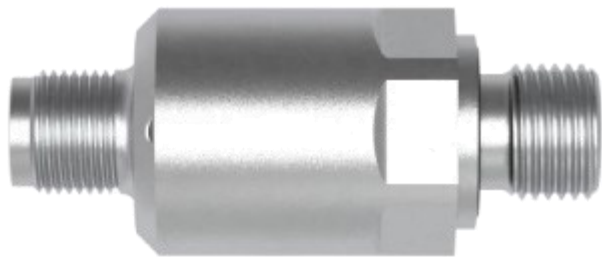


P.Trace

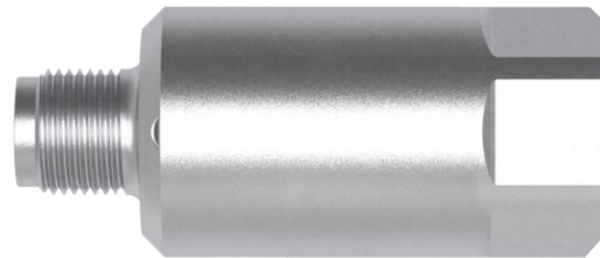
Small and robust pressure sensor for mobile machines

The [P.Trace](#) is one of the smallest and yet robust sensors with ceramic measuring cell. Due to the long-term stability of the measuring cell, high accuracy is permanently guaranteed.

- Pressure range between -1 bar ... 600 bar
- Housing material: stainless steel 1.4404
- Gasket material selectable: NBR, FKM or EPDM
- MTTF (40°C) of 2236 years (continuous operation)
- M12 connector, available as current or voltage output



G 1/4" (external)
thread

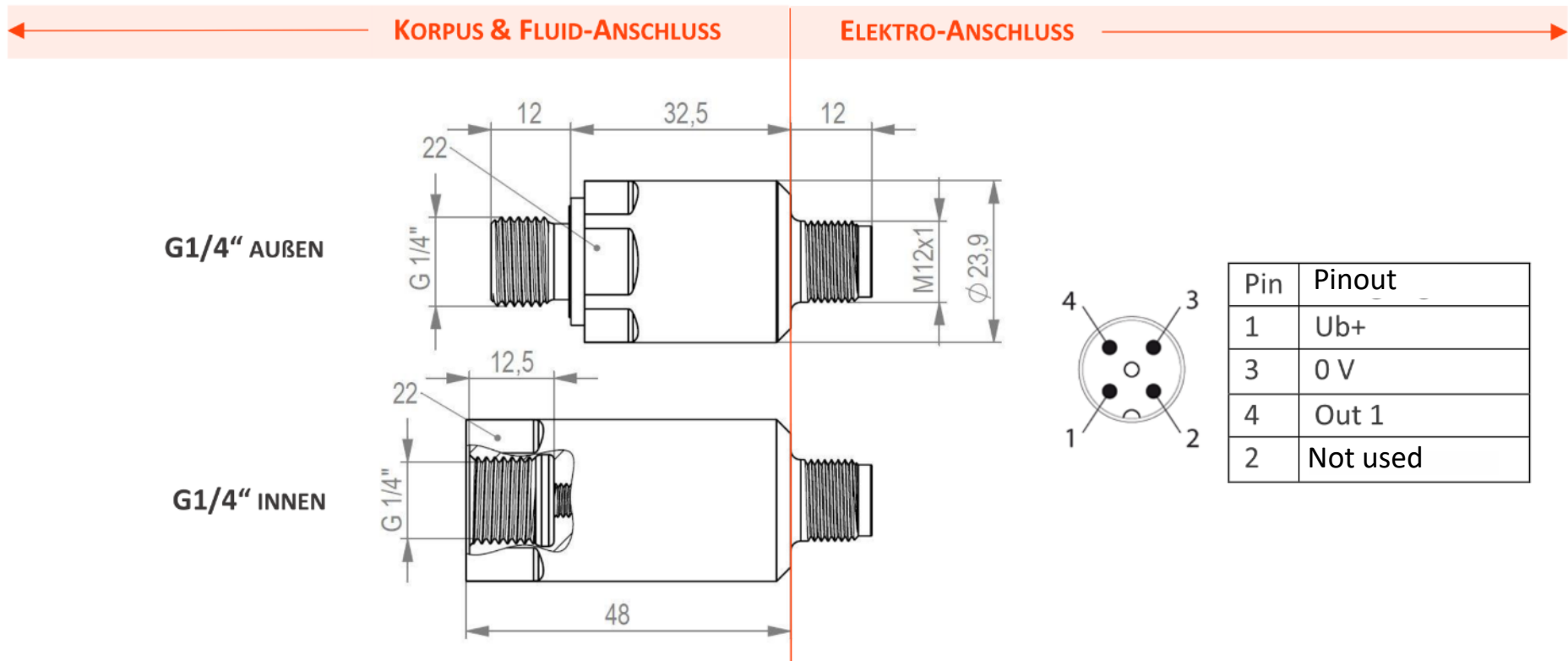


G 1/4" (internal)
thread



P.Trace

Pressure sensors



- Design: Compact, without digital display
- Connection: M12 4-pin
- On-board voltage:
 - 9 V ... 30 VDC (Current output)
 - 13 ... 30 VDC (Voltage output)
- Outputs: Analog output 0-10 V, 1-10 V, 4-20 mA
- Protective circuit: reverse polarity protection, short circuit protection
- Mounting position: Any
- Operating temperature: -25°C...+80°C
- Medium temperature: -25°C...+100°C
- Protection class: IP65 / IP67 / IP68



 **IO-Link**

One of the smallest sensors with integrated display and yet extremely robust!

P.Touch

Pressure sensor

Control via TFT touch display The P.Touch is equipped with a TFT touch display. This can be used both to display the pressure and to set the switching points via a virtual rotary wheel. By recording pressure peaks, for example, it is also ideal for service purposes.

- Pressure ranges -1...600 bar depending on variant
- Digital (PNP/NPN/Push-Pull), analog and IO-Link output
- Various diagnostic functions such as operating hours and pressure peak counter
- Display / housing rotatable by 350°, even after mounting the process connection
- Process connection G 1/4" with internal or external thread

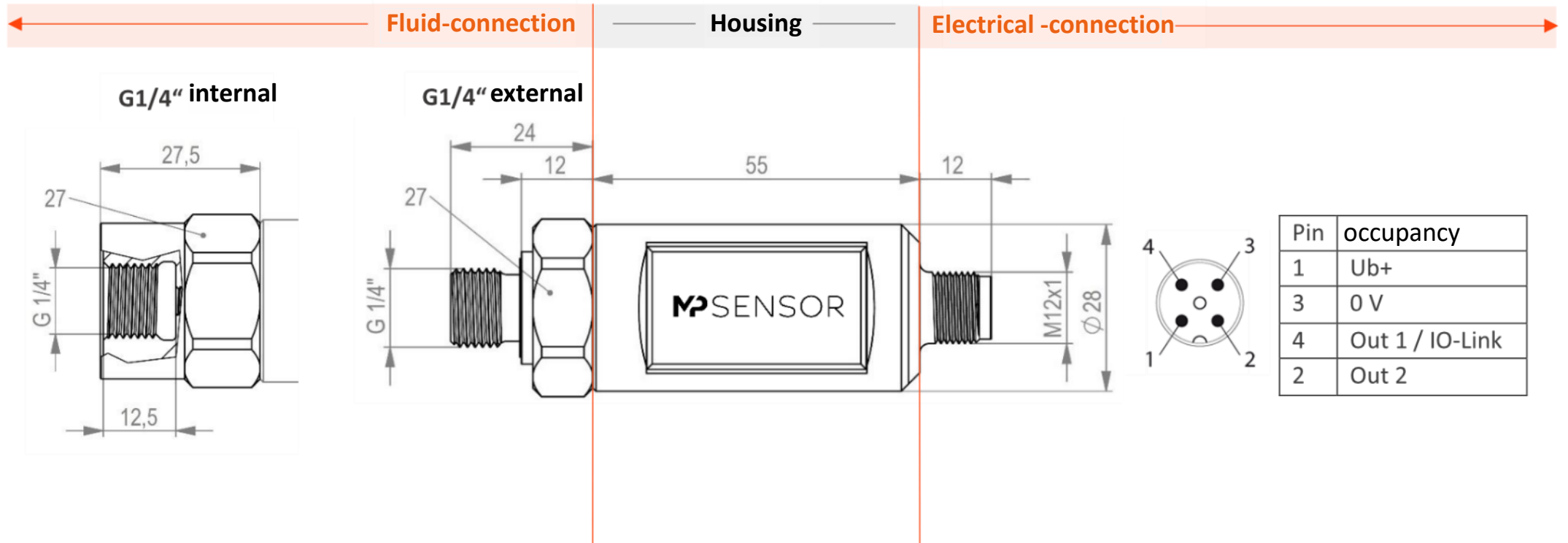


[You need cables?](#)



P.Touch

Pressure sensor



- Design: With color touch display
- Connection: M12 4-pin
- Protocol: IO-Link
- On-board voltage: 9...30 VDC

- Mounting position: Any
- Operating temperature: -25°C...+80°C
- Medium temperature: -25°C...+100°C
- Protection class: IP68

- Outputs: Analog output 4-20 mA
- Switching logic: NO/NC (programmable)
- Protective circuit: reverse polarity protection, short circuit protection





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CONSTRUCTION



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Application solutions & products for simple, decentralized and high-quality machine installation

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