STAINLESS STEEL STANDARD PRESSURE SENSOR SPS 1000

The stainless steel pressure sensors of the SPS 1000 series excel particularly through good overload and burst pressure characteristics. Even in cases of pressure peaks, the monolithic pressure sensors offer outstanding safety features.

Operating in an aggressive media does not influence their superb performance.

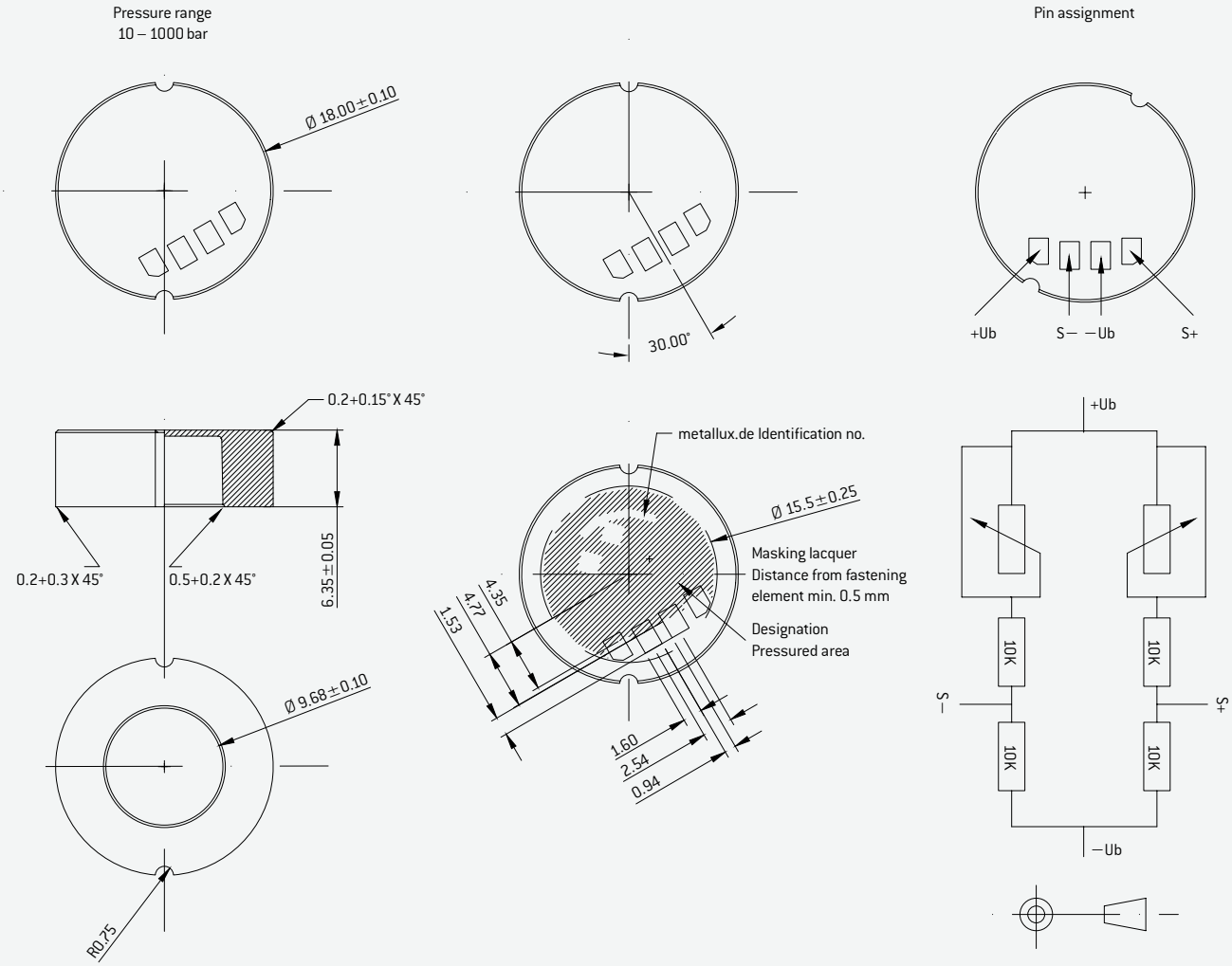
TECHNICAL SPECIFICATIONS	
Resistance/Tolerance	10 kOhm ± 20%
Output span signal	See table "Span"
Maximum current Imax.	4 mA
Linearity, hysteresis, reproducibility (depends on pressure range)**	≤ ± 0.5...1.5% FS
Supply voltage	3...30 V
Zero point offset	–0.5...0 mV/V
Stability of zero point (1000h @ 125°C)	≤ 0.4% FS
Insulation resistance	100 MOhm at 500 VDC, 25 °C, 75% rel. humidity
Temperature error, zero point (TK 0 0...85°C)	≤ ± 0.03% FS/K
Temperature error, span (TK S 0 – 85°C)	≤ ± 0.03% FS/K typ. (≤ ± 0.05% FS/K max.)
Nominal/Operating/ Storage temperature range	–40...125 °C
Electrical connectors	Tinned solder pads, flat flexible cable
Pressure type	Relative pressure

NOMINAL PRESSURE	SPAN	OVERLOAD PRESSURE	BURST PRESSURE	VACUUM
10 bar	1.5...3.5 mV/V	20 bar	> 50 bar	Vacuum-resistant
25 bar	1.5...3.5 mV/V	50 bar	> 125 bar	Vacuum-resistant
40 bar	1.5...3.5 mV/V	80 bar	> 200 bar	Vacuum-resistant
60 bar	1.5...3.5 mV/V	120 bar	> 300 bar	Vacuum-resistant
100 bar	1.5...3.5 mV/V	200 bar	> 500 bar	Vacuum-resistant
160 bar	1.5...3.5 mV/V	320 bar	> 650 bar	Vacuum-resistant
250 bar	1.5...3.5 mV/V	500 bar	> 750 bar	Vacuum-resistant
400 bar	1.5...3.5 mV/V	800 bar	> 1200 bar	Vacuum-resistant
600 bar	1.5...3.5 mV/V	1200 bar	> 1800 bar	Vacuum-resistant
1000 bar	1.5...3.5 mV/V	2000 bar	> 2500 bar	Vacuum-resistant

Mechanical and electrical characteristics are customisable.
Specifications are subject to change without notice.

SAMPLE ORDER		
Type	Pressure range in bar	Electrical connection (acc. to drawing)
SPS 1000	100 bar	Solder pads
Other dimensions and electrical specifications on request.		

DIMENSIONAL DRAWINGS / CONNECTOR SCHEMATIC / ELECTRICAL CONNECTORS



Tinned connectors: **Sn95.6 Ag3.8 Cu0.6**	**Flex: A04-N065-N(Nomex)** **Cover: PUR 36788-1TM**	**Flat flexible cable: 4 X AWG26 2.54mm** **Cover: PUR 36788-1TM**	**Pins: 0.5 X 0.27 tinned**