8001
OEM PRESSURE SENSORS

APPLICATIONS

- ◇ Shipbuilding
- ◇ Engine manufacturing
- ◇ Railways
- ◇ Machine tools
- ◇ Hydraulics
- ◇ HVAC
- ◇ Refrigeration
- ◇ Process technology
- ◇ Water treatment
- ◇ Automotive industry
- ◇ Test benches
- ◇ Ex
- ◇ Food Industry
- ◇ Autoclaves
- ◆ **OEM pressure sensors**

MAIN CHARACTERISTICS

◆ Sensor:	Thick film on ceramic
◆ Measuring range:	0...1 to 0...250 bar
◆ Signal output:	2.3...3.5 mV/V
◆ NLH (BSL through 0):	± 0.25 % FS typ.

MAIN FEATURES

- ◆ Ceramic sensor
- ◆ Resistant to aggressive media
- ◆ High resistance to over pressure
- ◆ Relative or absolute pressure sensors
- ◆ Customised options available
- ◆ Excellent cost-performance ratio

CUSTOMISED VARIATIONS

The present data sheet is a summary of our OEM-products. We are in a position to adapt or develop other pressure connections and sensors to meet your special requirements. Contact us.

ORDERING INFORMATION

Custom build code — **XXXX.XX.XX.XX.XX.XX...** / **8001**

Range	0 ... 1.0	**Over pressure**	3.2	**Burst pressure**	5	**71**
	0 ... 1.6		3.2		5	**73**
	0 ... 4.0		10		12	**76**
	0 ... 6.0		12		18	**77**
	0 ... 10		20		30	**78**
	0 ... 16		32		48	**79**
	0 ... 25		50		75	**80**
[bar]	0 ... 40	**[bar]**	80	**[bar]**	120	**81**
	0 ... 60		120		180	**82**
	0 ... 100		200		300	**83**
	0 ... 160		320		480	**85**
	0 ... 250		500		750	**74**

*on request

Sensor	relative	**29**
Capteur	absolute (Ranges: ≤ 60 bar)	**49**

Pressure peak damping element
Accessories
Damping elements and Snubber: see specification sheet

hole	ø1.0mm	**40**
	ø0.3mm	**43**
	ø0.5mm	**45**

Other variations on request

SPECIFICATIONS

MAIN CHARACTERISTICS

Sensor: Thick film on ceramic
Measuring range: 0...1 to 0...250 bar
Signal output: 2.3...3.5 mV/V

ACCURACY

NLH @ +25°C (BSL through 0): ±0.25% FS typ
TC
Zero point: ± 0.02 % FS/K typ.
Span: ± 0.015 % FS/K typ.
Long term stability
1 year @ +25°C: ±0.35 % FS typ.

ELECTRICAL DATA

Output/Supply voltage
2.3...3.5 mV/V: max. 20 VDC
Bridge resistance: 10 kΩ ±30 %
Rise time: typ. 1 ms/10...90% nominal pressure

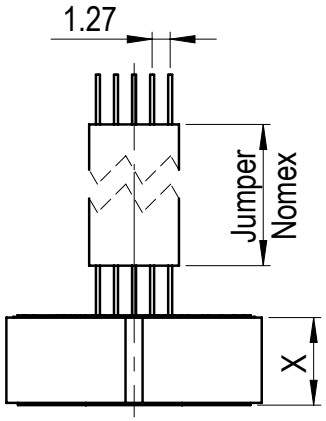
ENVIRONMENTAL CONDITIONS

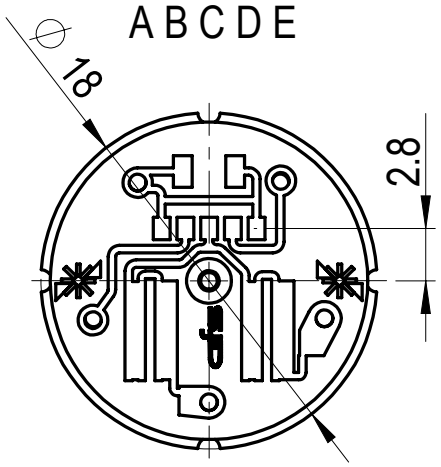
Operating temperature: -25...+125°C (dependent on media)
Media temperature
≤ 60bar: -25...+125°C
> 60bar: -10...+125°C (not for all media)
Humidity: max. 95% relative
Vibration
Without electrical connection: 50g (25...2000 Hz)
Shock
Without electrical connection: 1000g/1 ms

MECHANICAL DATA

Material
Sensor: Ceramic, Al_2O_3(96%)
Pressure connection: 1.4435 (AISI316-L)
Seal: FKM 70°Sh
Electrical connection: Flex, Nomex
Mounting torque: max. 25 Nm
Weight: ~ 65 g

No.	Range in bar	Over pressure in bar	Burst pressure in bar	Signal (mV/V)	Measure X
10	0…1.0	>3	>4	2.2…3.2	6.13
11	0…1.6	>4	>5	2.2…3.2	6.17
12	0…4	>10	>12	2.5…3.5	6.25
2	0…6	>15	>18	2.5…3.5	6.3
13	0…10	>25	>30	2.5…3.5	6.4
3	0…16	>40	>48	2.5…3.5	6.5
14	0…25	>60	>75	2.5…3.5	6.64
4	0…40	>80	>120	2.5…3.5	6.8
15	0…60	>120	>180	2.5…3.5	7
5	0…100	>200	>300	2.5…3.5	6.64
16	0…160	>320	>480	2.5…3.5	6.8
6	0…250	>500	>750	2.5…3.5	7





A	B	C	D	E
+IN (without Rv)	+Out	GND	-Out	+IN (with Rv)