

Relative pressure sensor CL 1

- Measurement of static and slow-changing pressure
- High accuracy and reliability
- High stability and repeatability
- Wide temperature range
- Three year warranty and after market service



The sensor CL1 has a flat metal diaphragm and a strain gage full bridge.

The bridge is balanced and thermal compensated. CL1 can be used in labs and industry to measure relative pressure, both static and slow-changing in non aggressive chemical liquids or gases. Especially recommended by processing pressure into electrical signal in hydraulic or industrial automatics systems.

The sensor CL 1 can be made in following configurations:

- R1, R2 – strain gage bridge
- 2I4, 3U1, 3U5, 3U10 – with processing unit in sensors casing.

Specifications:

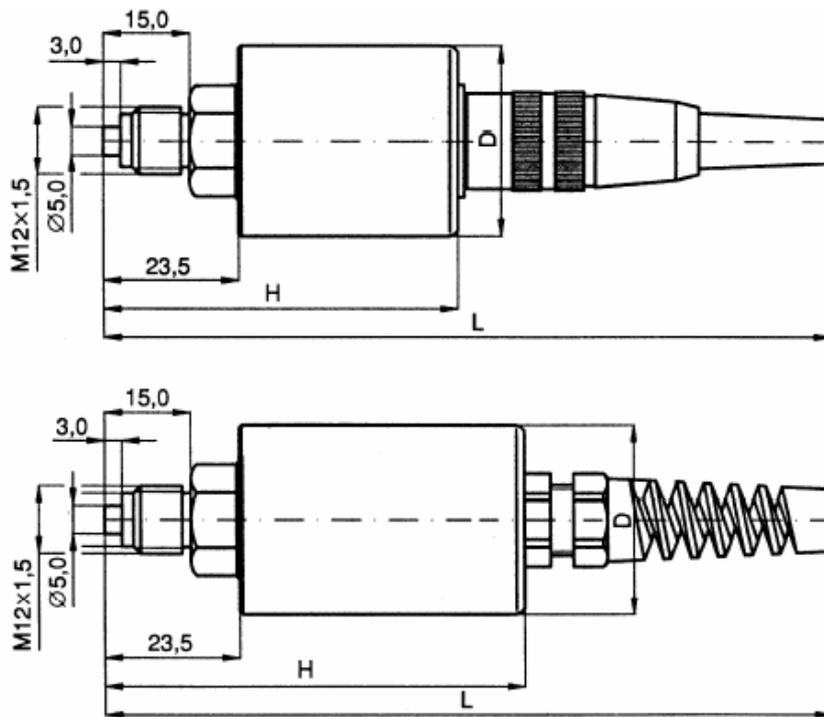
Range		[MPa]	0,10; 0,24; 0,64; 1,00; 2,4; 6,4; 10; 24; 64
Nonlinearity		%	≤ 0,5
Output signal:	R1	mV/V	10
	2I4	mA	4 ÷ 20
	3U1	V	1
	3U5	V	5
	3U10	V	10
Nominal voltage supply	R1		10
	2I4	[Vdc]	12 ÷ 36
	3U		12 or 24
Strain gage resistance		[Ω]	350
Operating temperature		[°C]	-20 ÷ 45
Protection degree			IP40, IP66
Material			steel, copper
Dimensions			as in a table
Cable length			0,5 m (standard) or other optional
Connector			Z1 - LUMBERG, O1 – O-ring gland

Manufacturer:

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Quality assurance
 Each sensor is detailed examined after manufacturing process. The manufacturer offers 24 month warranty for the sensor and after that time also repair and calibration services.

Overall dimensions:

Size	D	H	L
Configuration R1 [mm]	31	62	127
Configuration 2I, 3U [mm]	31	74	127

Options:



Range: [MPa] 0,1; 0,24; 0,64; 1,0; 2,4; 6,4; 10; 24; 64
 Nonlinearity: $\leq 0,5\%$
 Configurations: R1; 2I4; 3U1, 3U5, 3U10
 Supply voltage: 10 V, 12 V, 24 V
 Connector: Z1 - Lumberg DIN 45329, O1 – stuffing with stay wire
 Cable length: 3 m (standard) or other optional [m]

Example of options for ordering:

CL 1 - 10 MPa - 0,5 - R1 - 10 - Z1 – 1: pressure sensor with range 10 MPa; nonlinearity $\leq 0,5\%$; strain gage bridge 350 Ω with sensitivity 1mV/V; supply voltage 10 V; connector Lumberg; cable length 1 m.

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