

Miniature force sensor CL 21ms-rs

- tension and compression
- small dimensions
- measures only the axial component of the loading force
- three-year warranty and after market service
- the sensor can be calibrated by accredited laboratory ZEPWN
- recommended ZEPWN amplifiers CL10D, CL100P, CL72-3U, CL72-3I or devices CL450, CL460

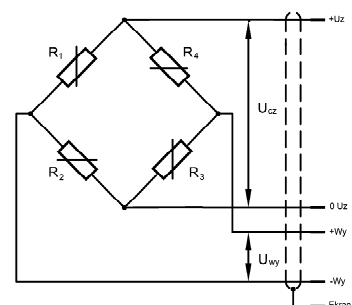


Specifications

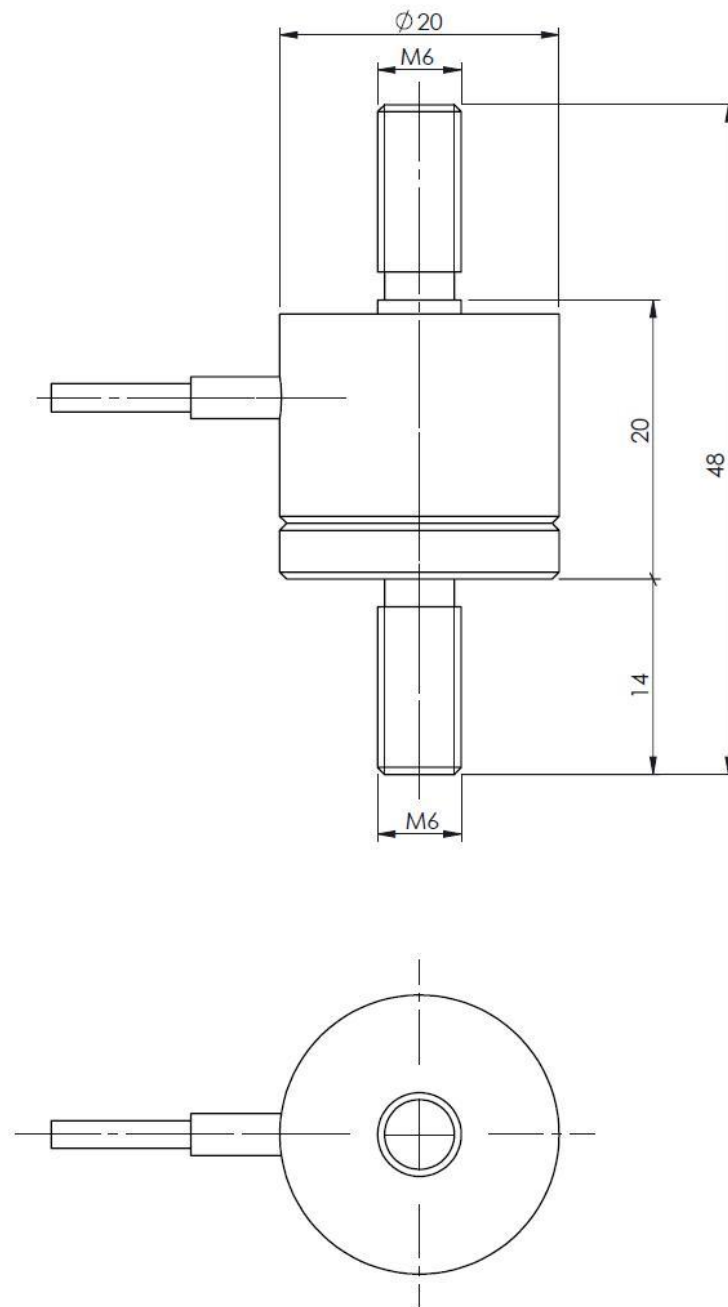
Parameter	Unit	Values
Measuring range	kN	0,2; 0,5; 1; 2
Nonlinearity	%	≤1
Sensitivity	mV / V	1 or 2 (by range 0,2 kN only 1 mV/V possible)
Nominal supply voltage	Vdc	5
Input resistance	Ω	350 ± 5 (aluminium) or 1000 ± 5 (steel)
Output resistance	Ω	350 ± 5 (aluminium) or 1000 ± 5 (steel)
Signal of bridge imbalance	%	0,1
Return of output signal after nominal load removed	%	≤0,05
Drift by nominal load	% / 30 min	≤0,1
Temperature limits	K	253 - 353
Temperature compensation	K	293 - 363
Temperature effect on sensitivity	% / 10K	≤0,1
Temperature effect on signal of unbalance	% / 10K	≤0,15
Maximum strain	mm	0,1
Material		steel or aluminium
Cable length	m	3 (standard) or other on request
Connector / Protection		cable permanently connected to the sensor / IP66
Service load	%	50
Insulation resistance	GΩ	≥40
Weight	kg	0,1

Electrical connection

brown	-W _y
white	0 U _z
yellow	+U _z
green	+W _y
black	shield



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CL21ms-rs

Ordering example: CL 21ms-rs – 1kN – R1 – 5

force sensor CL21ms-rs with measuring range 1 kN; nonlinearity 1%; sensitivity 1 mV/V; cable length 5 m

Manufacturer

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