

Load cells
KM90_HO
High Overload

- Extremely high overload capacity
- Extremely high nominal signal
- Customized

The load cells of the CeLaGo Sensors company are equipped with extreme high overload capacity thanks to the special and in house developed highly sensitive strain gauges. The classic design combined with the use of high-strength stainless steel and the latest strain gauges technology give rise to a family of load cells that, with their robustness draw attention to yourself.

This enables working with high preloads, a faster measuring or absorbing peak loads occurring in use.



data sheet - load cells

Type of transducer *KM90_HO (High Overload)*



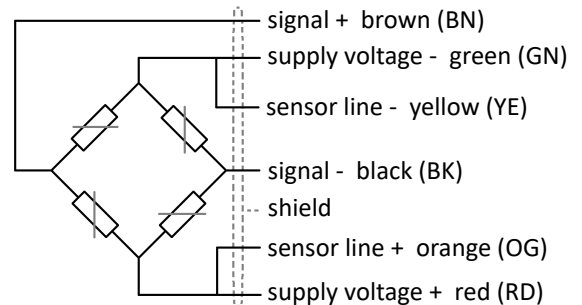
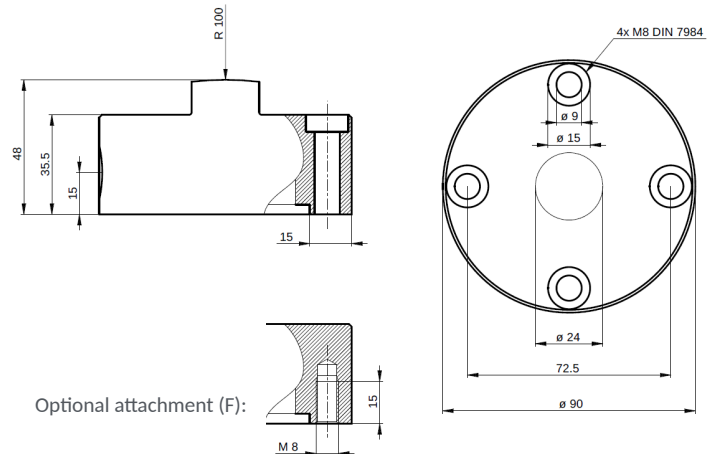
Available versions with possible measuring range

Designation	Item number	Nominal force	Nominal output	Overload	Breaking load
KM90-005_HO	12-1-SD-KM-005-090.090.048	5 kN	2.5 mV/V	600%	1200%
KM90-015_HO	12-1-SD-KM-015-090.090.048	15 kN	2.5 mV/V	600%	1200%
KM90-025_HO	12-1-SD-KM-025-090.090.048	25 kN	2.5 mV/V	600%	1200%

Other versions are available as customer-specific load cells.

Technical specifications	Unit	
Nominal output	mV/V	see above
Output tolerance*	%FS	5
Accuracy**	%FS	1
Recommended supply voltage	V	3-5
Maximum supply voltage	V	10
Preload	kN	0
Zero point	mV/V	<0.1
Input resistance at RT	Ω	500
Output resistance at RT	Ω	450
Insulation resistance	MΩ	>2000
Resistance tolerance	%	10
Nominal temperature range	°C	-10 bis 70
Degree of protection	-	IP67
Material	-	Stainless steel
Dimensions:	-	-
diameter	mm	90
overall height	mm	48
Cable length (default)	m	5
Pin assignment:	-	-
signal +	-	Brown (BN)
signal -	-	Black (BK)
supply voltage +	-	Red (RD)
supply voltage -	-	Green (GN)
Sensor line + (optional)	-	Orange (OG)
Sensor line - (optional)	-	Yellow (YE)

Dimensions



Note: * The exact characteristic output is shown.

** Higher accuracy is available on request.

Example of possible form of use for *KM90-005_HO*

Designation	Item number	Nominal force	Nominal output	Overload	Breaking load
KM90-005_HO	12-1-SD-KM-005-090.090.048	5 kN	2.5 mV/V	600%	1200%
		10 kN	5 mV/V	300%	600%
		15 kN	7.5 mV/V	225%	450%
		20 kN	10 mV/V	150%	300%

Subject to change without notice. All data describe our products and services in a general form. They do not constitute a guarantee of quality or liability. The information does not justify any liability.

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