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LMS

Load cell designed for weighing on cables

More information

LMS Load cell in cables

LMS load cells are an economical alternative for measuring tension on steel cables. Its main use is intended for weighing on cranes.

Installed on the cable side of the fixed point, the load cell offers a simple solution for measuring voltage and weight, without any modification of the machine and without travel loss.

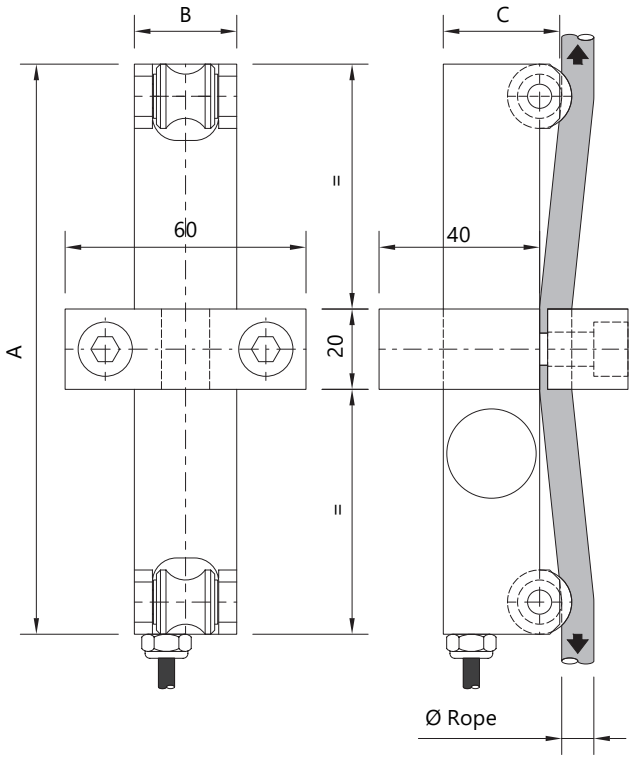
Available in various sizes and nominal capacities, different flanges can be selected for any cable diameter and nominal load.

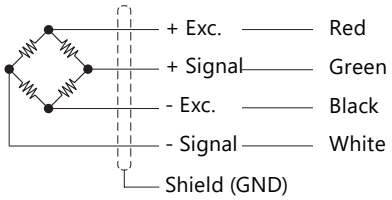
Standard rated capacities range from 1 to 10t, and the cable diameter from 6 to 22mm. Load cells can be customized to any load.

Specifications

Parameter		Units	Specifications			
Model		-	LMS1	LMS2	LMS3	LMS4
Nominal Load (N.L.)		t	1 / 2	4	6	8 / 10
Nominal Sensibility (N.S.)		mV/V	1 ... 2			
Accuracy		%	0.2			
Zero balance		mV/V	0.2			
Maximum excitation voltage		V	12			
Maximum linearity error		%N.L.	0.108			
Temperature range	Compensated	°C (°F)	-10 ... +40 (+14 ... +104)			
	Operating		-20 ... +60 (-4 ... +140)			
	Storage		-20 ... +70 (-4 ... +158)			
Min. Insulation resistance (V.Test = 100V)		GΩ	4			
Input resistance		Ω	350 ... 400			
Output resistance		Ω	350 ± 1.5			
Workload limit without characteristic loss		%N.L.	150			
Cable	Type	-	4 x 0.22mm² Ø6			
	Standard length	m	4			
	Material	-	Polyurethane (PU)			
Sensor	Material	-	Aluminum			
	Surface treatment	-	Anodized			
Protection class		-	IP65			

Dimensional drawings (mm) and wiring diagram





N.L. (t)	1 / 2	4	6	8	10
Ø Rope	6 / 7 / 8	9 / 10 / 11 / 12	13 / 14 / 16	18 / 20	22
A	125	142	165	185	185
B	25.5	25.5	31	31	31
C	29	29	31	31	31
Flange	LMS12		LMS34		

Product Reference

Sensor

Ref.	Nominal Load (N.L.)	Model
005757	1	LMS1
005758	2	
005706	4	LMS2
005542	6	LMS3
005761	8	LMS4
057622	10	

Clamps

Ref.	Ø Rope	Flange
005707	6	LMS12
005788	7	
005529	8	
005789	9	
005765	10	
005790	11	
005700	12	
005701	13	LMS34
005791	14	
005792	16	
005793	18	
005702	20	
005703	22	

For more information

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