

Rope tension testing and supervision Sensor



RTM Rope tension sensor

These sensors are specially designed to measure rope tension. Its tightening system enables installing and uninstalling quickly and easily. It includes a LED to indicate the optimum rope tension.

It is a factory calibrated sensor with two available versions to cover a wide range of ropes (5 to 20 mm).

Make the most out of your sensors

Kit format available. These sensors and the DELTA device, form a kit tool for measuring and checking the tension on cables.

There are kits ranging from 8 up to 16 sensors, both with RTM-1 and RTM-2 sensors.

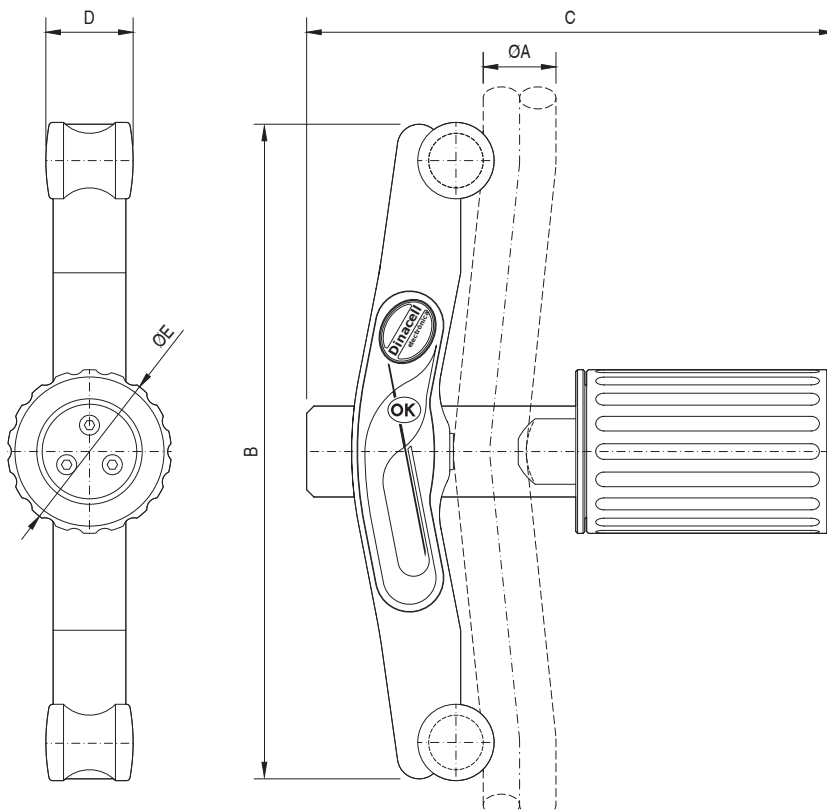


Specifications

Parameter	Units	Specifications																
		RTM-1								RTM-2								
Model	-																	
Nominal Load (N.L.)	kg	200	250	350	400	450	550	650	800	950	1100	1250	1450	1600	1700	1800		
Ø Rope	mm	5	6	8	9	10	11	12	13	14	15	16	17	18	19	20		
Minimum distance to the socket	cm	30																
Maximum excitation voltage	V	12																
Hysteresis error	%N.L.	<0.05																
Maximum linearity error	%N.L.	<0.15																
Non-repeatability	%N.L.	<0.15																
Combined error	%N.L.	<0.2																
Temperature range	Compensated	-10 ... +40 (+14 ... +104)																
	Operating	°C (°F)	-20 ... +60 (-4 ... +140)															
	Storage		-20 ... +70 (-4 ... +158)															
Min. Insulation resistance (V.Test s 100V)	GΩ	5																
Input resistance	Ω	350 ... 480 ±2																
Output resistance	Ω	350 ±2																
Load limit	Safe	150																
	Without characteristics loss	200																
	Standard length	2																
Cable	Connector	USB																
	Material	Polyurethane (PU)																
Sensor	Material	Aluminum																
	Surface treatment	Anodized																
Protection class	-	IP50																

Note: Features refer to an RTM sensor on which the load is applied directly by a force machine. It has been proven that when mounted on an elevator rope, the RTM sensor is affected by third-party agents, such as the type, cable status and frictions, which can distort accuracy by up to 12%.

Dimensional Drawings (mm)



	RTM-1	RTM-2
ØA	5 ... 13	13 ... 20
B	142.5	180
C	115	145
D	19	24
ØE	40	45

RTM Product Reference



Ref.	Model	Ø Rope
006251	RTM-1	5 ... 13
006397	RTM-2	13 ... 20

RTM+DELTA Kit reference



Ref. by model		Contain
RTM1	RTM2	
018329	018937	6 Sensors + DELTA 8S
018899	018938	8 Sensors + DELTA 8S
018934	018939	10 Sensors + DELTA 16S
018935	018940	12 Sensors + DELTA 16S
018936	018941	16 Sensors + DELTA 16S

For more information

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