

RTM

(EN)

Installation guide



Dinacell Electrónica S.L.

Dinacell Electronica S.L.

Changes may occur without previous notice.

The contain must be considered as general information. It must not be considered as quality warrantee. Some technical or editorial errors may occur.

Product notice

This guide describes the way of use and the features that serve the product in its most updated version.

The resources included in this manual meet the set of RTM models.

Document Ref.: D1714-03

Publication date: 23/03/2022

For more information

www.elevatormotors.com

INDEX

1 Introduction	4
1.1 General Overview	4
1.2 Main Characteristics	4
2 The sensor	5
2.1 Dimensions and parts of the sensor	5
2.2 Main technical characteristics	5
3 Installation	6
3.1 Install the sensor in the rope	6
3.2 How should the sensor be placed?	7
3.3 How much pressure should be exerted?	7

1.1 General Overview

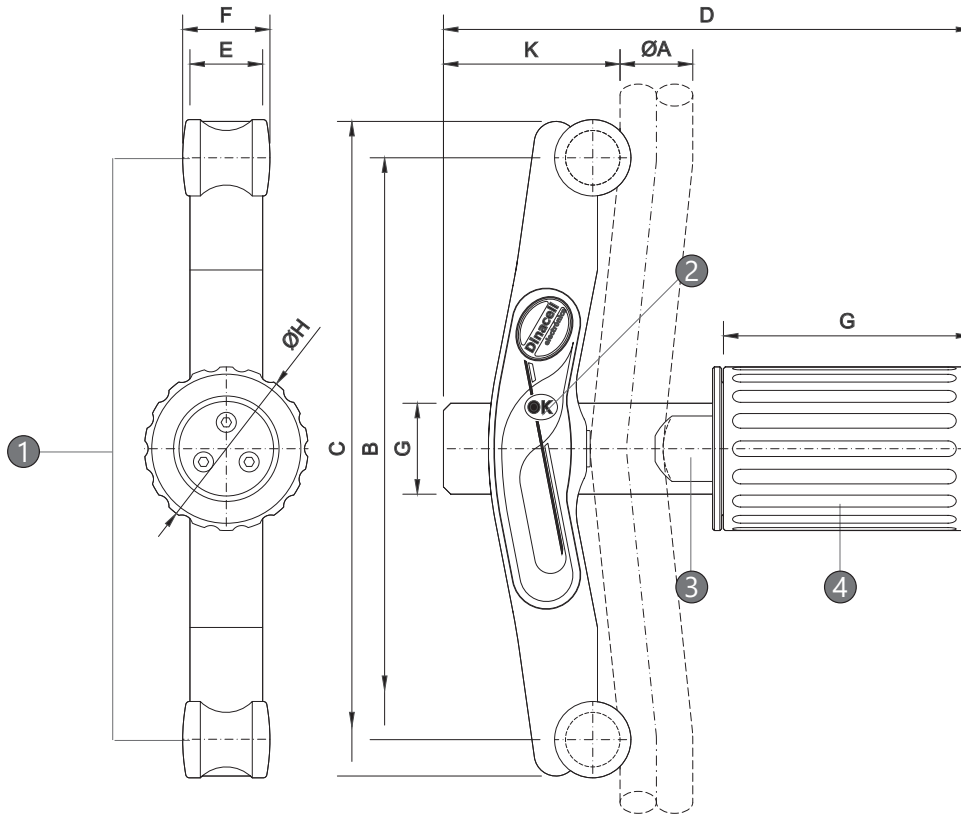
These sensors have been specially designed to measure the tension of the cables. Its tightening system allows you to install and uninstall the sensor quickly and easily. It incorporates an LED that indicates when the optimum pressure is reached to the cable.

It is a factory calibrated sensor that integrates two models to cover a wide range of cables (5 to 20 mm).

1.2 Main Characteristics

- Easy installation measuring tool.
- Adjust by means of its crank tightening system.
- USB output.
- LED indicator of the optimum pressure on the cable.

2.1 Dimensions and parts of the sensor



	RTM-1	RTM-2
ØA	5 ... 13	13 ... 20
B	121	160
C	142.5	180
D	115	145
E	14	20
F	19	24
G	54.5	68
H	40	45
J	17.5	22.5
K	41	48.5

Dimensions in mm

Components	Description
(1) Rope support points	-
(2) LED	This led indicates the optimum pressure exerted on the rope.
(3) Pressure point on the rope	-
(4) Pressure crank	The crank allows the pressure point on the rope to be extracted or contracted depending on the rotation.

2.2 Main technical characteristics

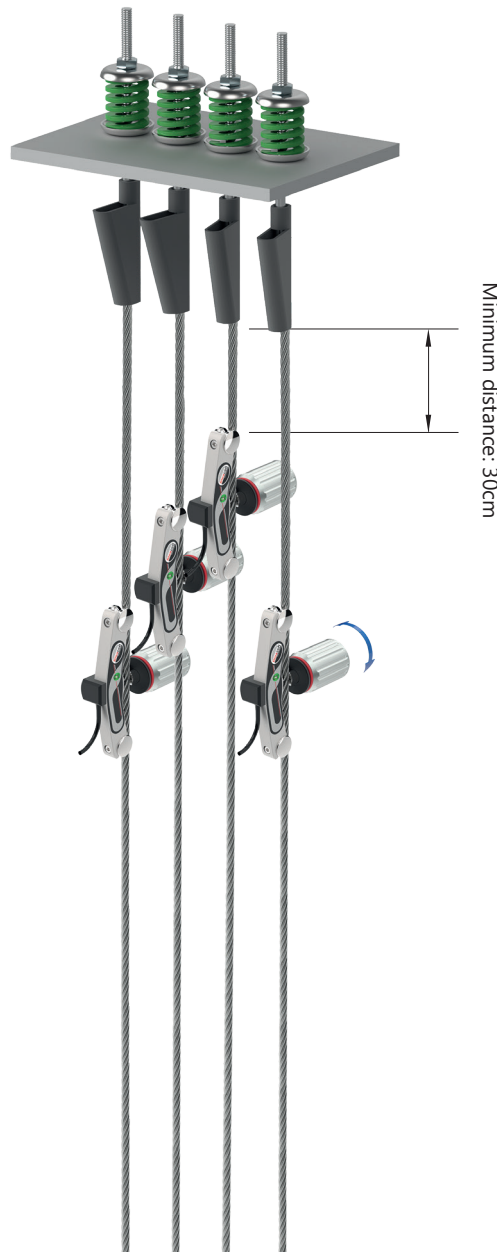
Technical specifications	RTM-1	RTM-2
Rope diameter (mm)	5mm - 13mm	13mm - 20mm
Nominal Load (t)	0-800kg	800-1800kg
Maximum linearity error	<0.15 %C.N.	
Non-repeatability	<0.15 %C.N.	
Working Load limit	150 %C.N.	
Ultimate Load limit	200 %C.N.	
Temperature range	-10 ... 60 °C	

3.1 Install the sensor in the rope

A correct installation must respect a minimum distance of 30cm from the fixed point in order to have a good measurement and avoid measuring in a non-straight section of the rope. You should also place the sensors so that they do not touch each other.



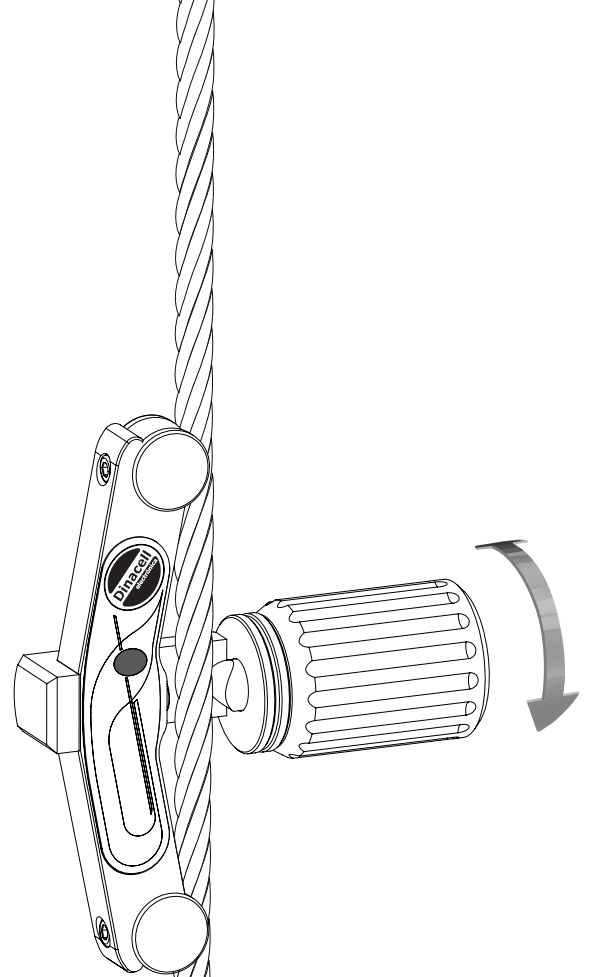
For good performance in measuring RTM sensors, these must be attached to the cable and no bumps, pulls or hooks should be applied to the cable after the sensor has been installed, nor make trips of the elevator.



3.2 How should the sensor be placed?

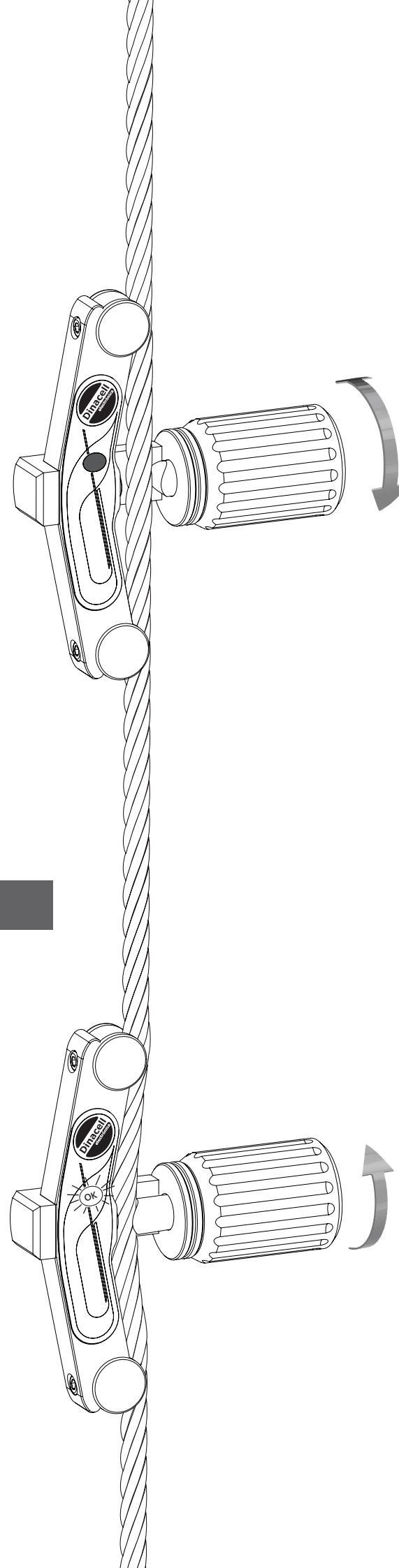
To place the RTM sensor on the rope, you must place the sensor so that the cable is located between the sensor support points and the pressure point.

If the rope hits the pressure point, you must turn the crank counterclockwise so that the pressure point contracts.



3.3 How much pressure should be exerted?

To apply tension, you must turn the RTM crank clockwise. When the sensor LED emits light, it will indicate that the optimum pressure exerted on the cable has been reached. You should not continue turning the crank once the LED is on.





OFFICIAL USA DISTRIBUTOR OF DINACELL ELECTRÓNICA S.L.

ELEVATOR MOTOR CORPORATION. (EMCO)

80 Carolyn Boulevard, NY- 11735 Farmingdale, USA

Phone: +1 6312934440

Fax. +1 6312932714

info@elevatormotors.com

www.elevatormotors.com