

BTM

User Manual



Dinacell Electrónica S.L.

Introduction

1.1 Product Description



The BTM/RTM sensors are Plug&Play sensors that are part of the tool for checking and adjusting the tension of elevator belts. Its tightening system allows you to install and uninstall the sensors quickly and easily.

1.2 Pre-installation knowledge

The BTM sensors are installed individually on each of the elevator belts. The installation location depending on the type of suspension is indicated in FIGURE 1 and FIGURE 2. The sensors should not be placed less than 30cm from the fixed point. For the sensors to function correctly, they must be attached to the tape so that they do not come into contact with any other element.

During the measurement with the sensors the elevator must be stopped.

The sensors must be uninstalled before using the elevator normally again.

Installation location depending on the type of suspension:

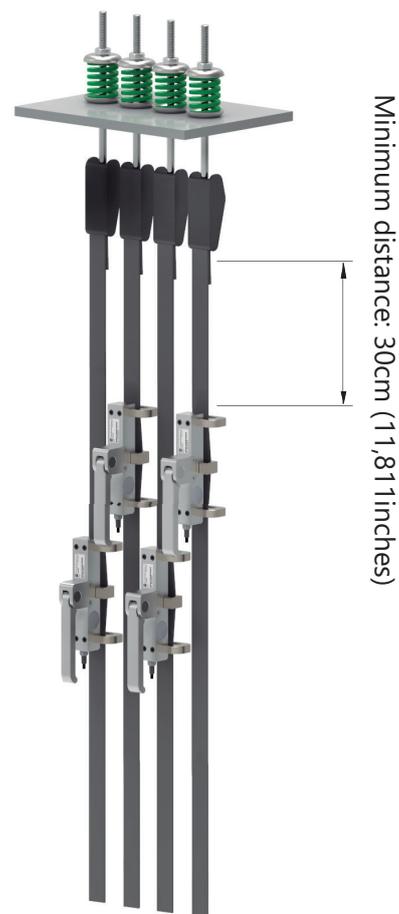
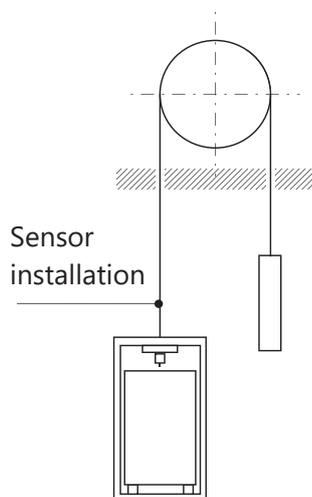
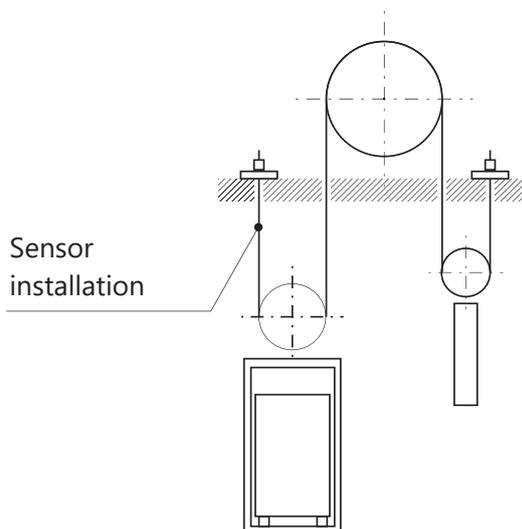


FIGURE 1



Installation with 1:1 suspension

FIGURE 2



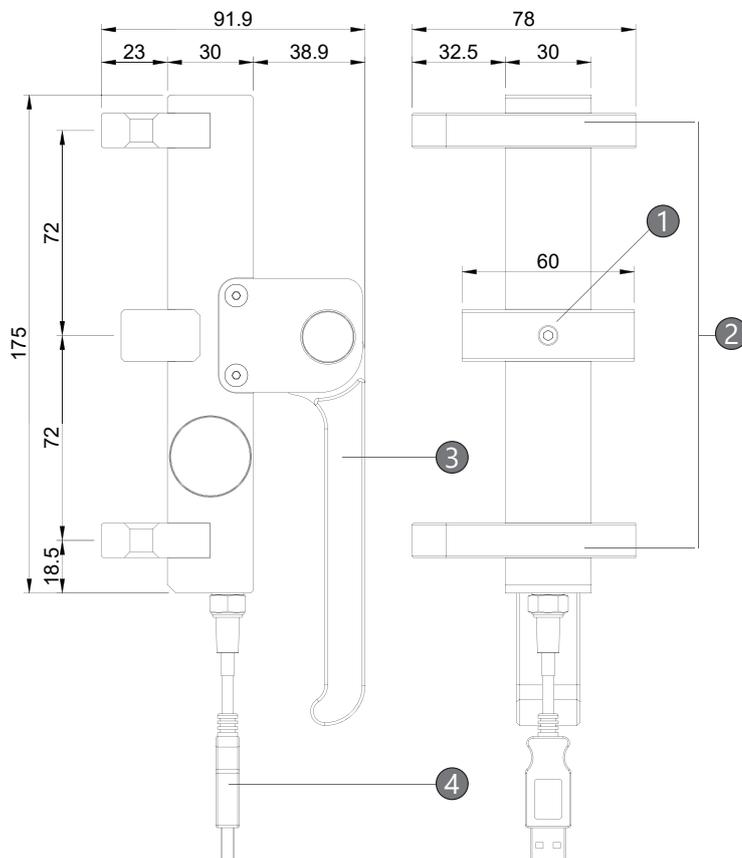
Installation with 2:1 suspension

Introduction

1.3 Main technical characteristics

Parameter		Units	Technical specifications						
Model		-	BTM						
Specifications with a belt tension measurement device	Nominal Load (N.L.)	kg	380	740	400	500	640	800	980
	Maximum workload	-	150%						
	Accuracy	-	1%						
Belt specifications	Minimum Breakage Load	kN	32	64	34	43	52	68	85
	Width	mm	30	60	25	30	36	38	48
	Thickness		3		3.3			4.6	
Maximum excitation voltage		V	12						
Temperature range	Compensated	°C (°F)	-10 ... +40 (+14 ... +104)						
	Operating		-20 ... +60 (-4 ... +140)						
	Storage		-20 ... +70 (-4 ... +158)						

1.4 Sensor dimensions and components



Components

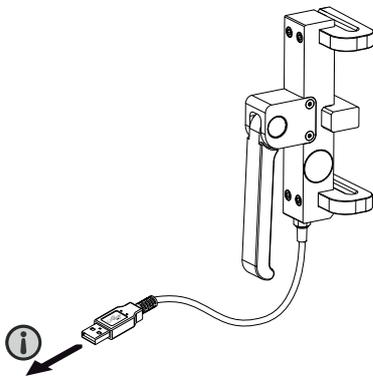
- | | |
|-----|----------------|
| (1) | Pressure point |
| (2) | Clamps |
| (3) | Pressure lever |
| (4) | Usb connector |

Step by step installation

2

2.1 Steps to install a BTM sensor

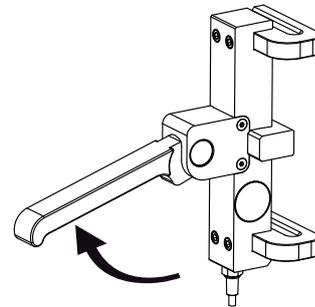
1



The first step is to connect all the sensors to the equipment.

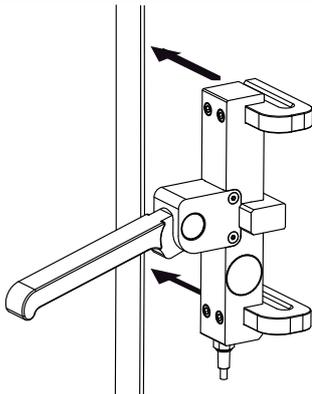
i Once the sensors are connected to the equipment, check the manual of said equipment if you have to make any type of configuration adjustments.

2



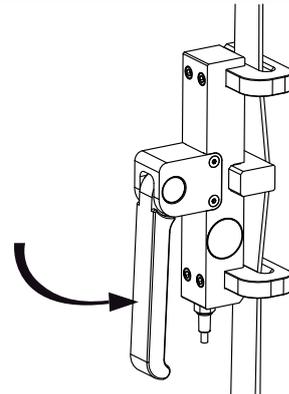
The next step is to place the sensors on the tape. To do this you must lift the pressure lever.

3



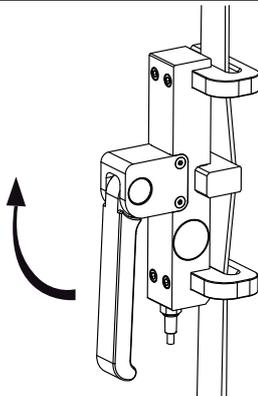
Insert the sensor by placing the tape between the pressure point and the clamps.

4



Finally, secure the sensor by lowering the pressure lever.

5



Once the belt tension has been adjusted, you must uninstall the sensor to use the elevator normally again. To do this, perform the steps indicated above in reverse.

For more information

www.dinacell.com

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