EN

DINACELL

Load Weighing Devices

Dinacell Electrónica S.L.

Dinacell Electrónica S.L.

Dinacell electrónica

THINK UNIQUE

Sistema de Gestión ISO 9001:2015
www.tuv.com ID 9105036889

PYME INNOVADORA

Staging the reference

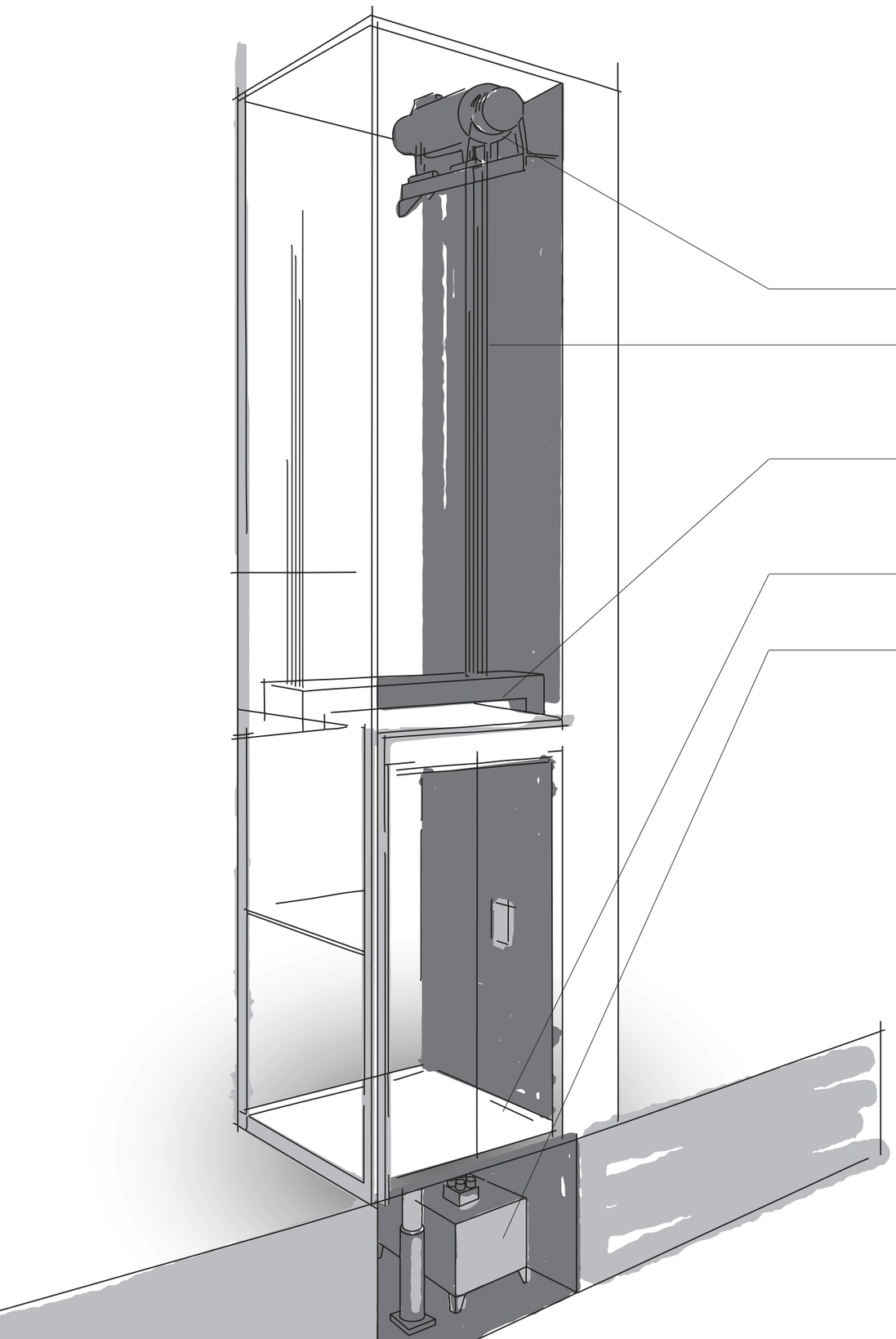
Dinacell Electrónica is a reference in the national and international market, established in values such as innovation and quality, above all, based on the trust placed by our customers. We are always looking for new horizons, learning every day and innovating to continue leading the industry with cutting-edge technology. Investing every year in the most advanced technology of the sector and in the research and development that we carry out in our I+D+I department.

The difference, is what we can do and develop together

Based on the experienced of our professional engineering department on which could give ideas and support for any demand needed on your projects.

Trust the end results

The manufacture and control of all our processes has been a fundamental pillar in the growth of the entity. Thanks to this, it can offer the appropriate personalization to each client, the quality and safety of the shortest delivery times. Backed in turn by a strong stock distributed in warehouses around the world.



INDEX

Load cells

BPP

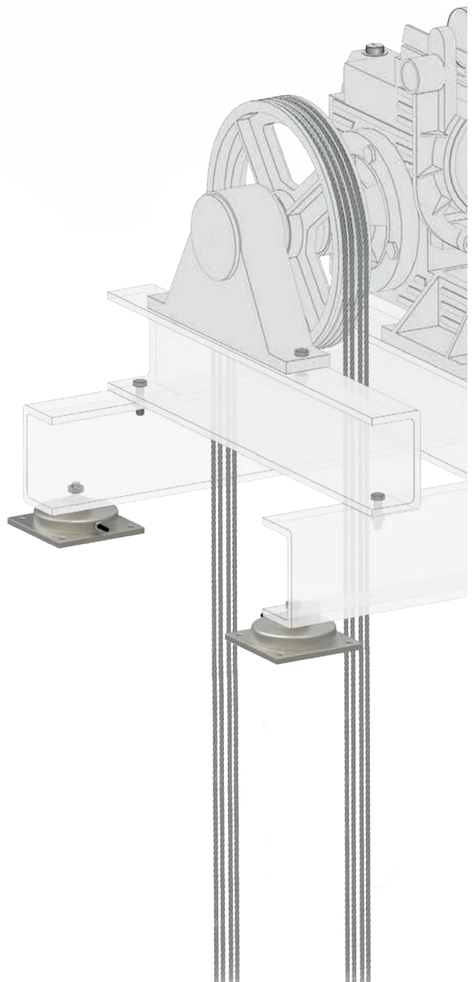
Load cells designed to be installed
under the motor bed frame

BPP Compression load cell

The BPP load cell is specially designed to be installed under the motor bed frame.
Dinacell has developed two different variants:

· The BPP is installed supporting the motor weigh.
· The BPP-CB supports the motor weight and is bolted to the motor shaft.

The Load cells feature a silent-block, avoiding so possible vibration transmissions.
We highly recommend installing at least two load cells, placed on the points with the highest pressure, obtaining so the best load weighing accuracy.



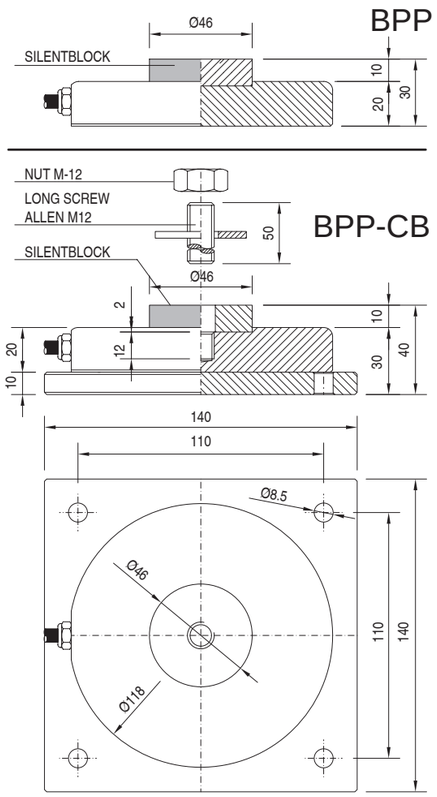
BPP Data Sheet

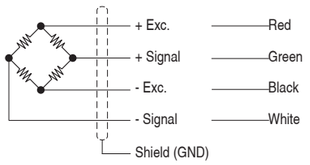
Dinacell electrónica

Specifications

Parameter		Units	Specifications	
Model		-	BPP	BPP-CB
Nominal Load (N.L.)		t	1.5 / 3 / 5 / 6.5	
Nominal Sensibility (N.S.)		mV/V	1.4 ... 2.0	
Accuracy		-	0.2%	
Zero balance		mV/V	± 0.20	
Maximum excitation voltage		V	12	
Temperature range	Compensated	°C (°F)	-10 ... +40 (+14 ...+104)	
	Operating		-20 ... +60 (-4 ... +140)	
	Storage		-20 ... +70 (-4 ... +154)	
Min. Insulation resistance (V.Test s 100V)		GΩ	4	
Input resistance		Ω	350 ±3	
Output resistance		Ω	350 ±2	
Load limit	Safe	%N.L.	150	
	Breaking		>300	
Cable	Type	-	4 x 0.22 mm² Ø6	
	Standard length	m	4	
	Material	-	Polyurethane (PU)	
Sensor	Material	-	Alloy steel	
	Surface treatment	-	Chemical nickel	
Protection class		-	IP67	

Dimensional drawings (mm) and wiring diagram





SWR

Individual sensor for lift ropes application

CSA B44.1/ASME A17.5

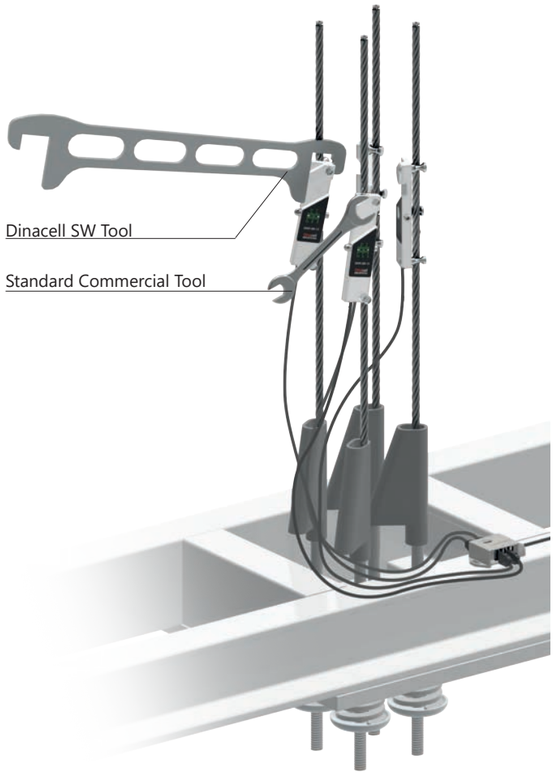
SWR Load sensor for lift ropes

These sensors are installed individually on the lift ropes to measure the load supported on each rope. The SWR retractable central pulley allows to cover a range from diameter 5 up to 13 mm, with their respective nominal load in a single format.
One of the most remarkable characteristics of this sensor is the fast and easy installation, by using Dinacell SW Tool or any standard tool. Other of its advantages is the capability of being installed in already finished installations.

For a complete load weighing installation

These sensors have a USB connector output. This feature allows to use multiple-inputs in control unit, as OMEGA Control until, and be able to obtain individual information from each sensor.
For installations with the special requirement of connecting a set of sensors to a load limiter with only one input, sets could be conformed with a (1) INTERFACE. This accessory provides a wired or USB output, which makes them suitable with any device, regardless of the load limiter input type.

(1) INTERFACE



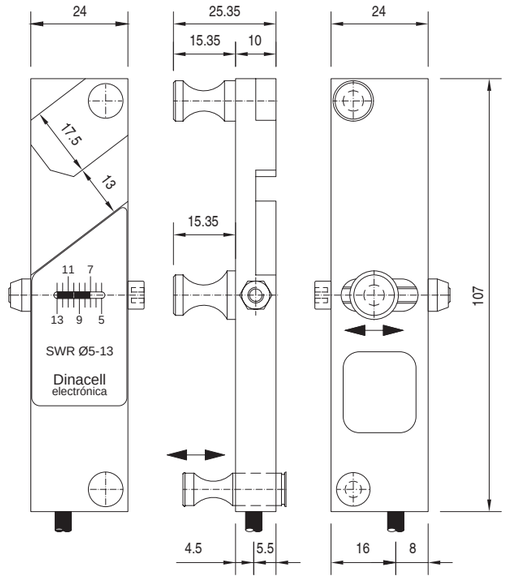
SWR Data Sheet

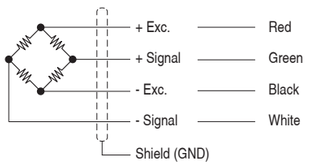
Dinacell electrónica

Specifications

Parameter		Units	Specifications
Model		-	SWR
Nominal Load (N.L.)		kg	200 / 250 / 300 / 350 / 400 / 450 / 550 / 650 / 800
Ø Rope		-	5 / 6 / 6.5 / 7 / 8 / 9 / 10 / 11 / 12 / 13
Nominal Sensibility (N.S.)		mV/V	0.5 ... 2.0
Accuracy		-	0.25%
Zero balance		%mV/V	± 0.20
Maximum excitation voltage		V	12
Minimum distance to the socket		cm	25
Temperature range	Compensated	°C (°F)	-10 ... +40 (+14 ...+104)
	Operating		-20 ... +60 (-4 ... +140)
	Storage		-20 ... +70 (-4 ... +158)
Min. Insulation resistance (V.Test s 100V)		GΩ	4
Input resistance		Ω	350 ±1.5
Output resistance		Ω	350 ±1.5
Load limit	Safe	%N.L.	120
	Without characteristics loss		150
Cable	Type	-	4 x 0.14 mm2 Ø4.3
	Connector	-	USB
	Standard length	m	0.5 / 2 / 4
	Material	-	Polyurethane (PU)
Sensor	Material	-	Aluminum
	Surface treatment	-	Anodized
Protection class		-	IP65

Dimensional drawings (mm) and wiring diagram





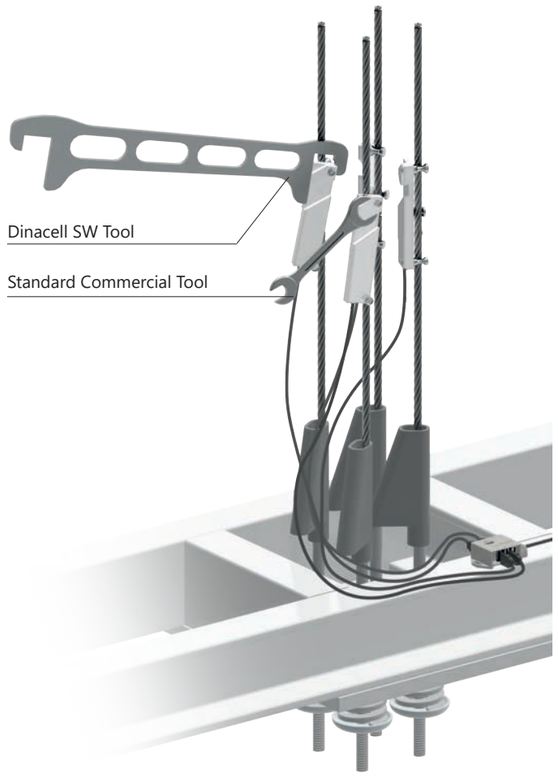
SWK

Individual sensor for
lift ropes application

CSA B44.1/ASME A17.5

SWK Load Sensor for lift ropes

These sensors are installed individually on the lift ropes to measure the load supported on each rope. A wide range of SWK covers rope diameter from 4 up to 16 mm, each one with their respective nominal load.
One of the most remarkable characteristics of this sensor is the fast and easy installation, by using Dinacell SW Tool or any standard tool. Other of its advantages is the capability of being installed in already finished installations.



For a complete load weighing installation

These sensors have a USB connector output. This feature allows to use multiple-inputs in control unit, as OMEGA Control until, and be able to obtain individual information from each sensor.
For installations with the special requirement of connecting a set of sensors to a load limiter with only one input, sets could be conformed with a (1) INTERFACE. This accessory provides a wired or USB output, which makes them suitable with any device, regardless of the load limiter input type.

(1) INTERFACE

SWK Data Sheet

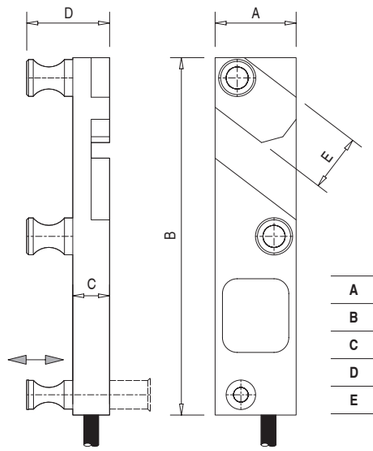
Specifications

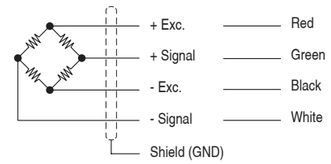
Parameter		Units	Specifications												
Models		-	SWK4	SWK5	SWK6	SWK6.5	SWK8	SWK9	SWK10	SWK11	SWK12	SWK13	SWK14	SWK15	SWK16
Nominal Load (N.L.) vs Rope Ø	Ø 4	kg	150	*250*											
	Ø 5		*130*	200	*300*										
	Ø 6			*150*	250	*350*									
	Ø 6.5				*200*	250	*400*								
	Ø 8					*200*	350	*500*							
	Ø 9						*250*	400	*550*						
	Ø 10							*300*	450	*650*					
	Ø 11								*350*	550	*750*				
	Ø 12									*450*	650	*900*			
	Ø 13										*550*	800	*1050*		
	Ø 14											*700*	950	*1200*	
	Ø 15												*850*	1100	*1350*
	Ø 16													*1000*	1250

N.L. for Rope Ø suggested
N.L. for Rope Ø compatible

Nominal Sensibility (N.S.)		mV/V	1.3 ... 2.0
Accuracy		-	0.25%
Zero balance		mV/V	± 0.20
Maximum excitation voltage		V	12
Minimum distance to the socket		cm	25
Temperature range	Compensated	°C *(°F)*	-10 ... +40 *(+14 ...+104)*
	Operating		-20 ... +60 *(-4 ... +140)*
	Storage		-20 ... +70 *(-4 ... +158)*
Min. Insulation resistance (V.Test s 100V)		GΩ	4
Input resistance		Ω	350 ... 400
Output resistance		Ω	350 ±1.5
Load limit	Safe	%N.L.	120
	Without characteristics loss		150
Cable	Type	-	4 x 0.14mm² Ø4.3
	Connector	-	USB
	Standard length	m	2
	Material	-	Polyurethane (PU)
Sensor	Material	-	Aluminum
	Surface treatment	-	Anodized
Protection class		-	IP65

Dimensional drawings (mm) and wiring diagram





	SWK4	SWK5	SWK6	SWK6.5	SWK8	SWK9	SWK10	SWK11	SWK12	SWK13	SWK14	SWK15	SWK16
A	12.5	18	20				22		24		28		
B	70	80	87				97		107		110		130
C	8	10									12		
D	14	18.5			21		22.5		25		30.5		
E	10	14					15.5		17.5		-		

LCA

Célula de carga orientada
al pesaje en cables

CSA B44.1/ASME A17.5

LCA Load sensor on ropes

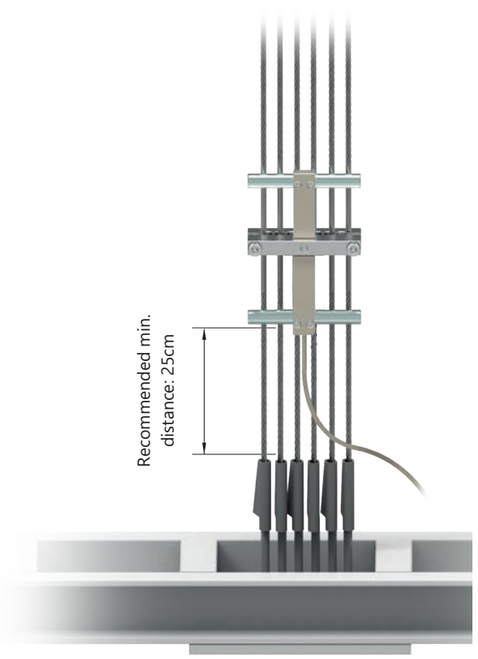
The LCA's are load cells that are installed on the elevator cables to measure the supported load. In order to cover installations with different cable numbers and their different diameters, each LCA can be equipped with different flanges to fit installations from 3 to 8 cables.

Get the best of performance and advantages

These types of LCA sensors have an optional cable output; 5 wires or with a USB connector, depending on the type of input connection of the controllers:
· For LCA's with T-USB output, the recommended devices are (1) RCU.
· For LCA's with wiring connection, we recommend our (2) VK devices.

(1) RCU
(For sensors with USB connector)

(2) VK
(For sensors with wiring connection)

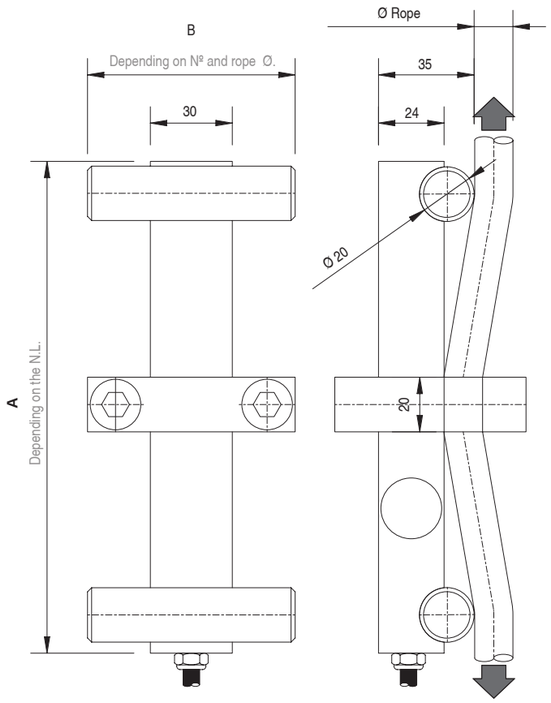


LCA Data Sheet

Specifications

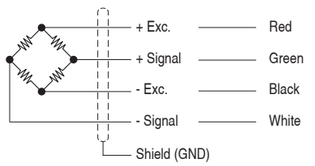
Parameter		Units	Specifications	
Model		-	LCA	
Nominal Load (N.L.)		t	1.6 / 4 / 6	
Nominal Sensibility (N.S.)		mV/V	1.4 ... 2.0	
Accuracy		-	0.25%	
Zero balance		%mV/V	± 0.20	
Maximum excitation voltage		V	12	
Minimum distance to the socket		cm	25	
Temperature range	Compensated	°C *(°F)*	-10 ... +40 *(+14 ...+104)*	
	Operating		-20 ... +60 *(-4 ... +140)*	
	Storage		-20 ... +70 *(-4 ... +158)*	
Min. Insulation resistance (V.Test s 100V)		GΩ	4	
Input resistance		Ω	350 ... 400	
Output resistance		Ω	350 ± 2	
Load limit	Safe	%N.L.	150	
	Without characteristics loss		200	
Cable	Type	-	4 x 0.22 mm² Ø6	
	Connector	-	Wiring connection	USB
	Standard length	m	2	4
	Material	-	Polyurethane (PU)	
Sensor	Material	-	Aluminum	
	Surface treatment	-	Anodized	
Protection class		-	IP65	

Dimensional drawings (mm) and wiring diagram



N.L. (t)	A Depending on the N.L.
1.6	166
4	
6	180

B	Depending on Nº and rope Ø.			
Rope No.	Ø Rope			
	3 ... 5	6 ... 8	8 ... 13	14 ...16
1	76			
2				
3	76		96	96
4				126
5	96		126	
6				156
7	-	126	156	186
8				



LCK

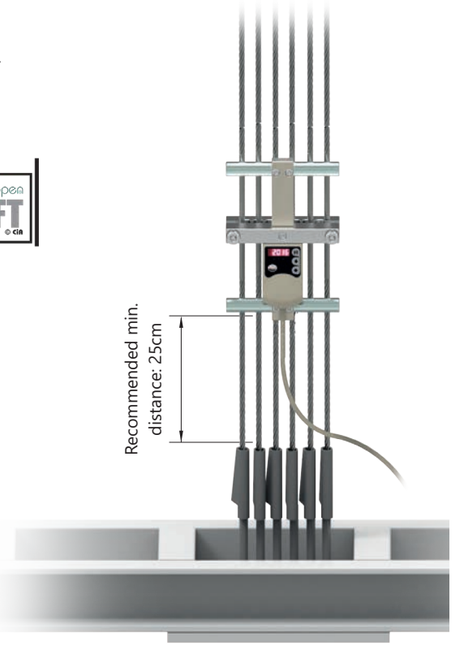
Complete Integrated
load weighing system

LCK Load limiter on ropes

LCK is a complete load limiter system, composed by a load cell and unit control. These are installed on lift ropes measuring the totality of the load. LCK devices come with clamp in order to cover different number of ropes and several diameters, depending on the characteristics of the installation. Dinacell has developed a new universal clamp which better adaptation to the installation, preserving tensions. It is available from 2 to 9 ropes.

Features:

· LCK comes with integrated electronics and it does not require any well-known weight in cabin weight in order to proceed with the adjustments.
· Optionable to calculate Chain compensation.
· Cabin display output for full load and overload indications.
· CANopen-Lift CiA 417 standards under request.



Get the best of performance and advantages by using app Tools ng2

Within LCK product line, some models integrates Dinacell NG technology. This technology allows firmware updating and the possibility of connecting our device GD-WiFi1. This accessory enables to configurate, calibrate and get accurate information of the installation status in any compatible device with Tools ng2 App.

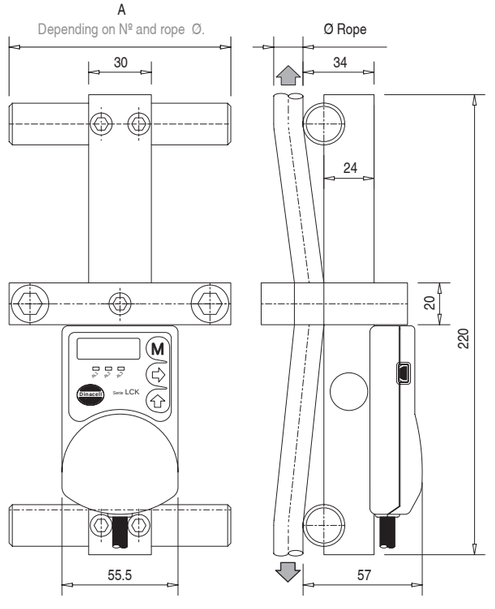
1. GD-Wifi
(For NG technology devices)

LCK Data Sheet

Specifications

Parameter		Units	Specifications				
Models		-	LCK-2RM	LCK-2Ra	LCK-3R	LCK-C	LCK-Ca
Nominal Load (N.L.)		t	3 / 4 / 6				
Accuracy		-	0.25%				
Power supply		VDC	24 (18 ... 40)				
Maximum current consumption		mA	65				
Minimum distance to the socket		cm	25				
Temperature range	Working	°C (°F)	-10 ... +65 (14 ... +149)				
	Storage		-20 ... +70 (-4 ... +158)				
Min. Insulation resistance (V.Test s 100V)		GΩ	4				
Relay	Maximum voltage	VAC	250				
	Maximum current	A	2				
	Number		2	2	3	-	-
CANopen CIA 417		-	-	-	-	✓	✓
Analog outputs 0-10V / 4-20mA / 0-20mA		-	-	✓	-	-	✓
Cabin display MB output		-	✓	-	-	-	-
NG technology (with USB for firmware upgrade)			✓				
Hold Input		VAC/DC	12 ... 125				
Load limit	Safe	%N.L.	150				
	Without characteristics loss		200				
Interface	Display digits	-	5				
	Keys	-	3				
	LEDs	-	3				
Cable	Type	-	10 x 0.22mm² Ø6				
	Standard length	m	2				
Sensor	Material	-	Aluminum				
	Surface treatment	-	Anodized				
Casing material		-	Fireproof V0				
Protection class		-	IP50				

Dimensional drawings (mm) and wiring diagram

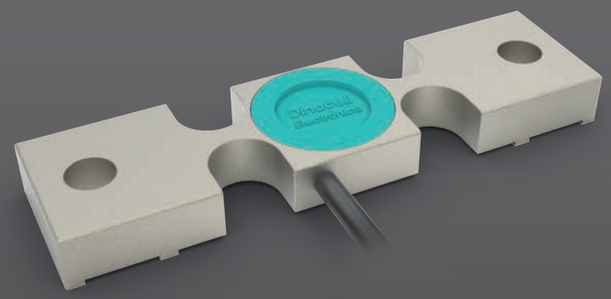


A	156	186
Nº Rope	2 ... 7	2 ... 9
Ø Rope	8 ...13	

	LCK-2RM	LCK-2Ra	LCK-3R	LCK-C	LCK-Ca
Black	GND				
Red	24VDC				
Purple	Relay 1			Can HIGH	
Blue				Can LOW	
Pink	Relay 2			-	
Brown					
White	Hold (+)				
Gray	Hold (-)				
Green	Cabin disp. +	4-20/0-20mA	Relay 3	-	4-20/0-20mA
Yellow	Cabin disp. -	0-10V		-	0-10V

SV-3000

Sensor designed for measuring beam structure deformation



SV-3000 Crosshead/Beam sensor

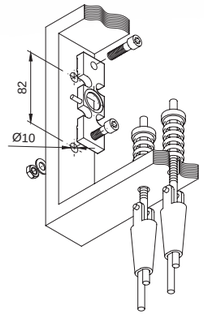
SV-3000's are designed to work with traction and compression. Designed for measuring the load limits in beams of metallic structure deformations (steel beams) or in elevation systems such as elevator or freight lift. Where the variations of the load through the entrance or the exit of load in the cabin, transmits the variation of the beam structure deformation measured by the sensor.

The SV-3000's is easy to install, on a clear part of the load-beam structure. This load weighing system could be used in finished lift constructed installation, making it easy to integrate the load limiter in the elevator or freight lift.

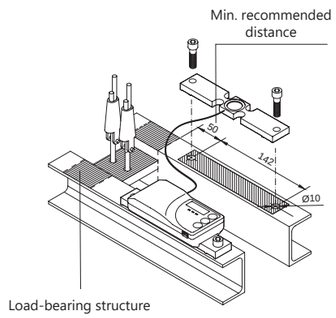
For a complete installation

This sensor has a cable with USB output or output without connector depending on the limiting device. It is possible to improve the quality of the measurement by adding to the installation more than one sensor.
For installations that require connecting a set of sensors to a limiter with a single input, assemblies can be formed by attaching these sensors to an (1) INTERFACE. These accessories offer connectorless or USB output, making them compatible with any device, regardless of the input type of the limiter.

(1) INTERFACE



Setting on a vertical hitch point



Setting on a vertical hitch point

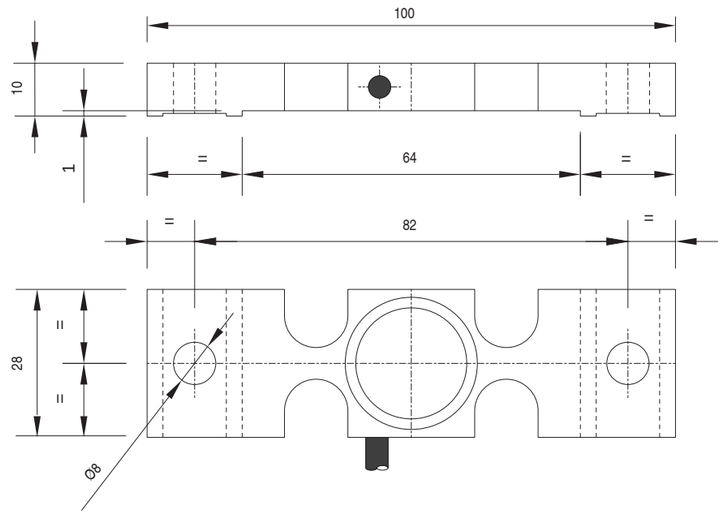
SV-3000 Data Sheet

Dinacell electrónica

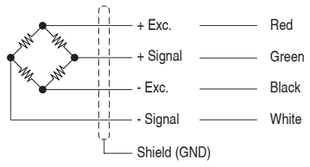
Specifications

Parameter		Units	Specifications
Model		-	SV-3000
Nominal Deformation (N.D.)		με	3000
Nominal Sensibility (N.S.)		mV/V	2
Accuracy		-	0.2%
Zero balance		%N.D.	5
Maximum excitation voltage		V	12
Temperature range	Compensated	°C *(°F)*	-10 ... +40 *(+14 ...+104)*
	Operating		-20 ... +60 *(-4 ... +140)*
	Storage		-20 ... +70 *(-4 ... +158)*
Min. Insulation resistance (V.Test s 100V)		GΩ	4
Input resistance		Ω	350 ± 2
Output resistance		Ω	350 ± 2
Maximum deformation		%N.D.	150
Cable	Type	-	4 x 0.14 mm² Ø4
	Connector	-	Wiring connection / USB
	Standard length	m	6
	Material	-	Polyurethane (PU)
Sensor	Material	-	Alloy steel
	Surface treatment	-	Chemical nickel
Protection class		-	IP65

Dimensional Drawings (mm)



Wiring diagram



SVD

Load limiter designed on elevator beam crosshead

SVD Load limiter on structure

The SVD is a complete load limitation system, consisting of Load cell and unit control. Designed to measure the weight on the deformations in metal structures (steel beams) or in lifting systems such as elevators or freight lifts, where the variations of load through the entrance or exit of the load in the cabin, transmits the variation of the beam structure deformation measured by the sensor.

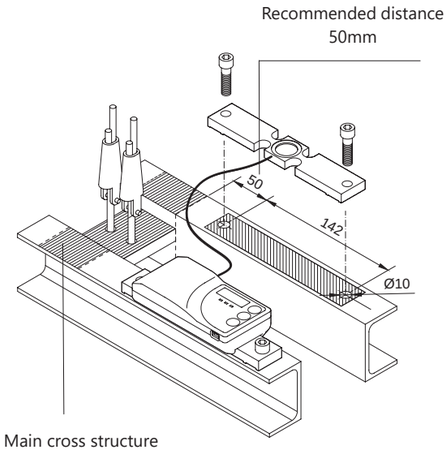
The installation of the SVD system can be done easily by placing it in a clean area of the supporting beam structure. Also, to improve the quality of the measurement on the weighing installation, the system integrates an additional USB input that allows the addition of a second SV-3000 beam sensor.

This system allows for the installation in a already finished lift constructed installation, making for an easy integration on load limiter in the elevator or freight lift.

Get the best of performance by using app Tools ng2

Within the SVD product line, some models integrate Dinacell NG technology. This technology allows firmware updating and the possibility of connecting our device (1) GD-Wifi. This accessory enables to configurate, calibrate and get accurate information of the installation status in any compatible device with Tools ng2 App.

(1) GD-WiFi (For NG technology devices).

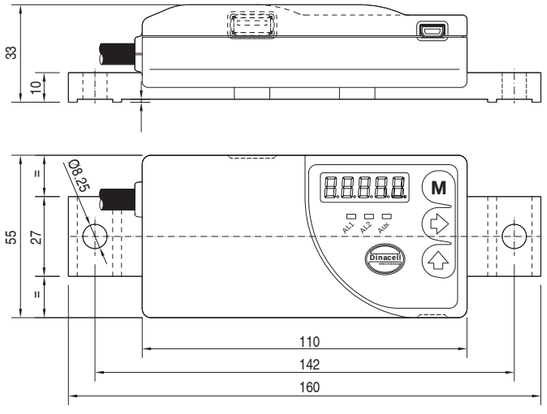


SVD Data Sheet

Specifications

Parameter		Units	Specifications				
Models		-	SVD-2RM	SVD-2Ra	SVD-3R	SVD-C	SVD-Ca
Nominal Deformation (N.D.)		με	3000				
Nominal Sensibility (N.S.)		mV/V	2				
Accuracy		-	0.25%				
Power supply		VDC	24 (18 ... 40)				
Maximum current consumption		mA	65				
Temperature range	Working	°C *(°F)*	-10 ... +65 *(+14 ... +149)*				
	Storage		-20 ... +70 *(-4 ... +158)*				
Min. Insulation resistance (V.Test s 100V)		GΩ	4				
Relay	Max. voltage	VAC	250				
	Max. current	A	2				
	Number		2	2	3	-	-
CANopen-Lift CIA 417		-	-	-	-	✓	✓
Analog outputs 0-10V / 4-20mA / 0-20mA		-		✓	-	-	✓
Cabin display MB output		-	✓	-	-	-	-
NG technology (with USB for firmware upgrade)		-	✓				
Hold Input		VAC/DC	12 ... 125				
Maximum deformation		%N.D.	150				
Interface	Display digits	-	5				
	Keys	-	3				
	LEDs	-	3				
Cable	Type	-	10 x 0.22mm² Ø6				
	Standard length	m	2				
Sensor	Material	-	Alloy steel				
	Surface treatment	-	Chemical nickel				
Casing material		-	Fireproof plastic ABS				
Protection class		-	IP50				

Dimensional drawings (mm) and wiring diagram



	SVD-2RM	SVD-2Ra	SVD-3R	SVD-C	SVD-Ca
Black	GND				
Red	24 VDC				
Purple	Relay 1			Can HIGH	
Blue				Can LOW	
Pink	Relay 2			-	
Brown					
White	Hold (+)				
Gray	Hold (-)				
Green	Cabin disp. +	4-20/0-20mA	Relay 3	-	4-20/0-20mA
Yellow	Cabin disp. -	0-10V		-	0-10V

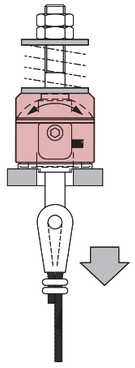
PF

Sensor designed for the terminals fixed point

PF Compression load cell

The PF compression sensors are a weighing solution located at the rope terminal fix-point of the traction elevators. These sensors are installed on each of the terminal fixed point receiving the weight individually from each rope.

It works in a compression load way of measurement, on which it provides the system with great reliability and mechanical robustness. With a compact design and occupying a minimal space, these sensors could support up to a thousand kilograms.



For a complete installation

These sensors are installed at the terminal fixed point and have a USB cable output. In order to have an independent weight reading on each cable, we recommend using our OMEGA control unit. For installations that need to connect a set of sensors to a load limiter, with one single input:

PF sensors assemblies can be formed by joining these sensors to a (1) INTERFACE. The INTERFACE offer cable output without a wiring connection (5wires) or with USB (depending on the type of input of the controllers).

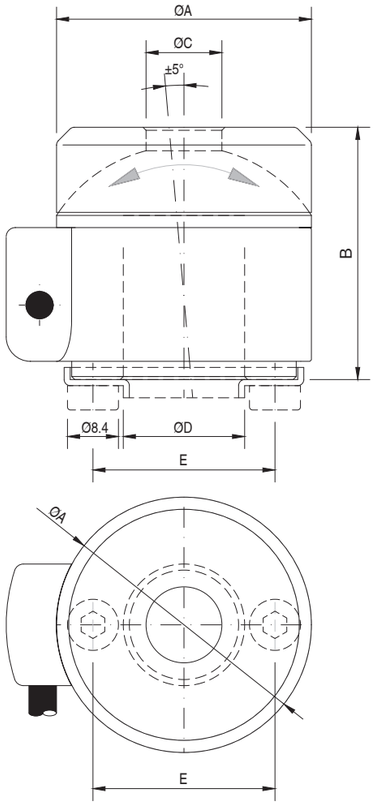
(1) INTERFACE

PF Data Sheet

Specifications

Parameter		Units	Specifications		
Model		-	PF-300	PF-500	PF-1000
Nominal Load (N.L.)		kg	300	500	1000
Accuracy		-	0.1%		
Zero balance		%mV/V	± 0,020%		
Maximum excitation voltage		V	12		
Temperature range	Compensated	°C (°F)	-10 ... +40 (+14 ...+104)		
	Operating		-20 ... +60 (-4 ... +140)		
	Storage		-20 ... +70 (-4 ... +158)		
Min. Insulation resistance (V.Test s 100V)		GΩ	4		
Input resistance		Ω	350 … 400		
Output resistance		Ω	350 ± 3		
Load limit	Safe	%N.L.	150		
	Without characteristics loss		300		
Cable	Type	-	4 x 0.14 mm² Ø4.3		
	Connector	-	USB		
	Standard length	m	2		
	Material	-	Polyurethane (PU)		
Sensor	Material	-	Aluminum		
	Surface treatment	-	Anodized		
Protection class		-	IP50		

Dimensional Drawings (mm)



Model.	ØA	B	ØC	ØD	E
PF-300	42	42	12.5	20	30
PF-500	47	45	16.5	20	32
PF-1000	54	50.5	25	30	39

PFC

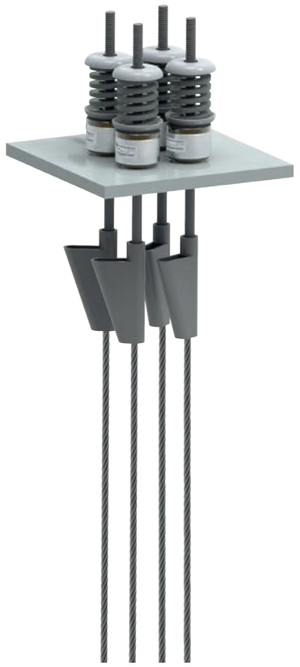
Sensor designed for the terminals fixed point

Plug & Play
Factory adjusted

PFC Compression load cell

The PFC load cells are a weighing solution at the fixed point of cables in traction elevators.

The advantages of the new design of the PFC sensor are as follows:
- This sensor has a low profile that improves weighing accuracy.
- A new geometric design, for perfect stability when weighing at all angles.
- Space saving and a lower height sensor.
- No need to add washers to the installation.
- Affordable with a competitive price.
- Plug & play load cells (adjusted with a factory CELL). This allows for easy adjustment, without the need to enter a known weight, when using our measuring devices.



For a complete installation

These sensors are installed at the fixed point and feature a USB cable output. In order to have an independent reading of the weight of each cable, we recommend the use of our OMEGA device.

For installations that need to connect a set of sensors to a load limiter, with a single input, it is necessary to combine the signal in a single output by using a (1) INTERFACE. These accessories offer cable output without connector or WITH USB (depending on the type of input of the limiting device).

1. INTERFACE

PFC Data Sheet

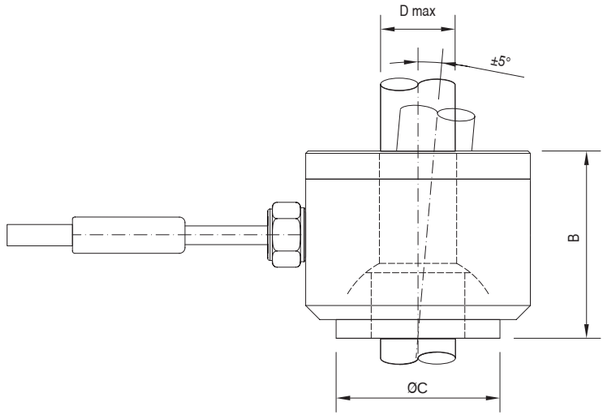
Dinacell electrónica

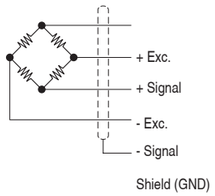
Specifications

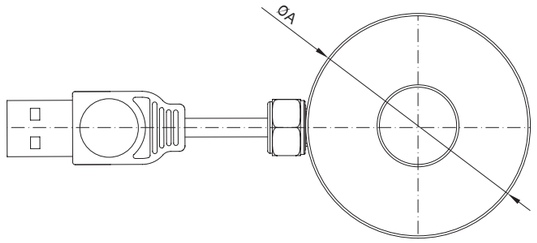
Parameter		Units	Specifications			
Model		-	PFC-300	PFC-500	PFC-1000	PFC-3500
Nominal Load (N.L.)		kg	300	500	1000	3500
CELL value		-	600	1000	2000	7000
Accuracy		-	1%			
Maximum excitation voltage		V	12			
Temperature range	Compensated	°C (°F)	-10 ... +40 (+14 ...+104)			
	Operating		-20 ... +60 (-4 ... +140)			
	Storage		-20 ... +70 (-4 ... +158)			
Min. Insulation resistance (V.Test s 100V)		GΩ	> 4			
Input resistance		Ω	350 ... 450			
Output resistance		Ω	350			
Load limit	Without characteristics loss	%N.L.	150			
	Breaking		> 500			
Cable	Type	-	Ø4			
	Connector	-	USB			
	Dimensions	m	2.5			
	Material	-	Polyurethane (PU)			
Load cell	Material	-	Alloy steel			
	Surface treatment	-	Chemical nikel			
Protection class		-	IP40			

Remarks:
-The cell value is found on load cell labels.
-Dinacell devices are set with the CELL value.

Dimensional Drawings (mm)



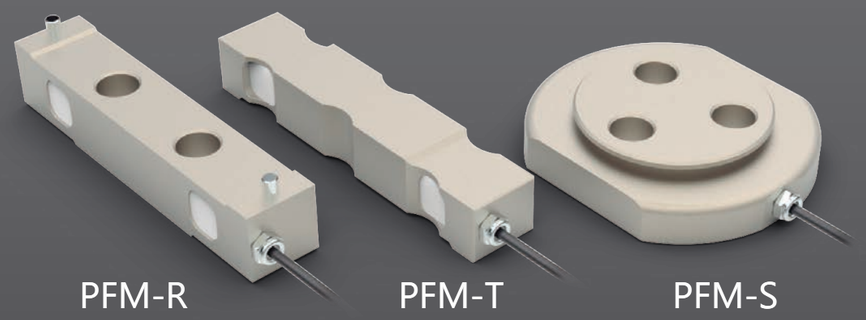




	ØA	B	ØC	D max
PFC-300	40	36	28	M-12
PFC-500	48	40	35	M-16
PFC-1000	65	46	54	M-24
PFC-3500	70	62	57	M-30

PFM

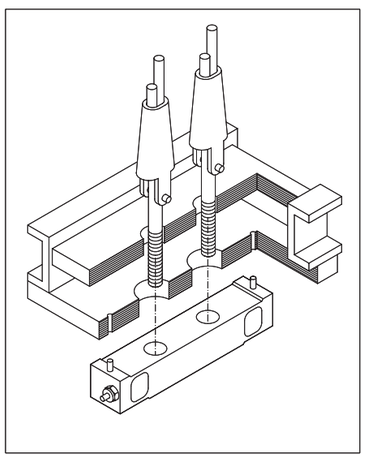
Sensor designed for the fixed or hitch point



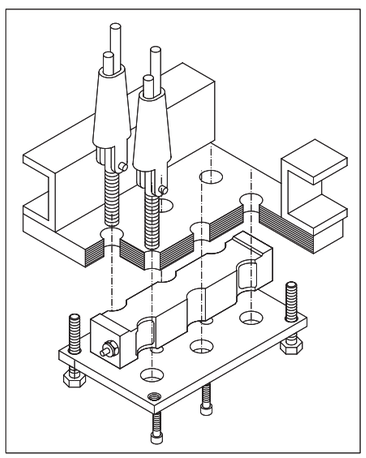
PFM Compression load cell

The PFM series of sensors are a solution of sensors to be installed at the terminal fixed point of the cables in traction elevators. These sensors are installed to receive the weight of the fixed point in its entirety. The PFM models can be adapted to any arrangement of the cable terminals support plate, making it available to the builder for a complete solution.
The layout and design is for compressive loads of the sensors, on which it provides the system with great reliability and mechanical robustness.

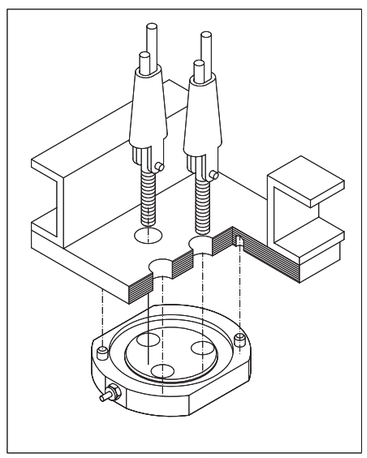
Within the design of PFM models, we have developed a PFM-T model that allows the sensors to be installed or removed by loosening the traction cables without having to disassemble them completely, on which it makes easy for installation and maintenance.The aluminum or stainless-steel sensor bodies provide anti-corrosion resistance to extend the lifetime use.



PFM-R



PFM-T



PFM-S

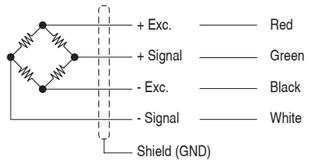
PFM Data Sheet

Dinacell electrónica

Specifications

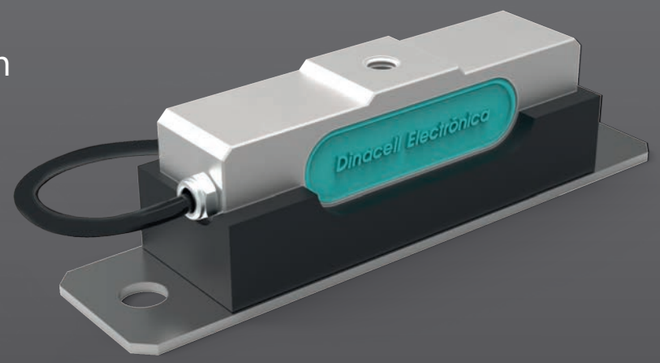
Parameter		Units	Specifications		
Model		-	PFM-R	PFM-T	PFM-S
Nominal Load (N.L.)		t	1 / 3 / 6		
Accuracy		-	0.2%		
Zero balance		%mV/V	±0.20		
Maximum excitation voltage		V	12		
Temperature range	Compensated	°C (°F)	-10 ... +40 (+14 ...+104)		
	Operating		-20 ... +60 (-4 ... +140)		
	Storage		-20 ... +70 (-4 ... +158)		
Min. Insulation resistance (V.Test s 100V)		GΩ	4		
Input resistance		Ω	350 ±3		
Output resistance		Ω	350 ±2		
Load limit	Safe	%N.L.	150		
	Breaking		>250		
Cable	Type	-	4 x 0.22mm² Ø6		
	Standard length	m	4		
	Material	-	Polyurethane (PU)		
Sensor	Material	-	Alloy steel / Aluminum		
	Surface treatment	-	Chemical nickel (Only alloy steel) / Anodized (Aluminum)		
Protection class		-	IP67		

Wiring diagram

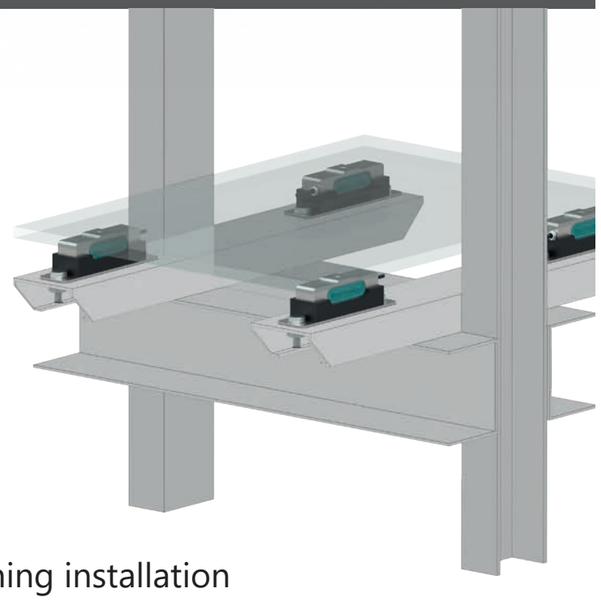


TCA

Load sensor designed
for under cabin installation

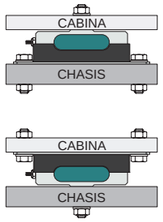


TCA Load compression sensor



High-accuracy load sensor developed for an optimum installation on the lift chassis.
Once this sensor is connected to a control unit, the adjustment with a known weight is not necessary. The sensor is mounted on top of a silent block with different degrees of hardness in order to avoid the possible transmission of vibrations to the cabin.
It is possible to combine the TCA sensors (active senosrs) with dummy TCA sensors (inactive sensors) in order to complement the installation.

For a complete Load weighing installation



TCA sensors are installed under the lift cabin.They are usually installed in sets of 2 or 4 sensors. It is possible to buy this kind of sensors as a set, joined through a (1) CONNECTION BOX with wired or USB output. On the other hand, individual TCA feature USB output as an option. In this case, sensors should be connected to an (2) INTERFACE with wired or USB output as well, depending on the input of the control unit.

(1) CONNECTION BOX

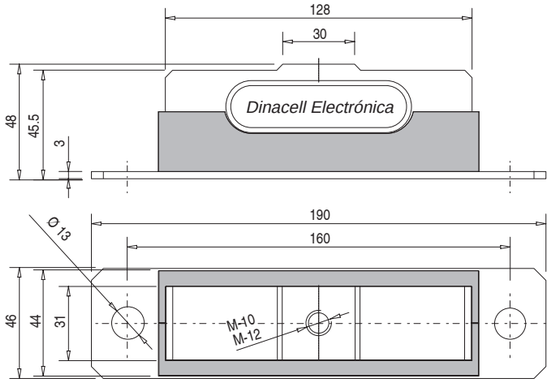
(2) INTERFACE

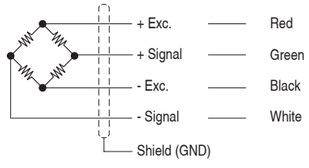
TCA Data Sheet

Specifications

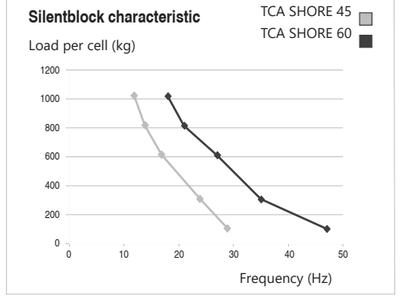
Parameter		Units	Specifications	
Model		-	TCA-800	TCA-HM
Nominal Load (N.L.)		kg	800	
Nominal Sensibility (N.S.)		mV/V	2 ± 0,1%	
Accuracy		-	± 0,06%	
Zero balance		mV/V	± 0,020%	
Maximum excitation voltage		V	12	
Temperature range	Compensated	°C *(°F)*	-10 ... +40 *(+14 ...+104)*	
	Operating		-20 ... +65 *(-4 ... +150)*	
	Storage		-20 ... +70 *(-4 ... +158)*	
Min. Insulation resistance (V.Test s 100V)		GΩ	4	
Input resistance		Ω	1050 ± 60	
Output resistance		Ω	1000 ± 5	
Load limit	Safe	%N.L.	150	
	Without characteristics loss		180	
Silentblock hardness		SHORE	60	45
Cable	Type	-	4 x 0.22 mm² Ø6	
	Connector	-	Wiring connection / USB	
	Standard length	m	2 / 5	
	Material		Polyurethane (PU)	
Sensor	Material	-	Aluminum	
	Surface treatment	-	Anodized	
Protection class		-	IP66	

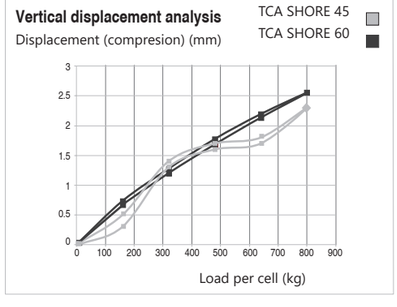
Dimensional drawings (mm) and wiring diagram





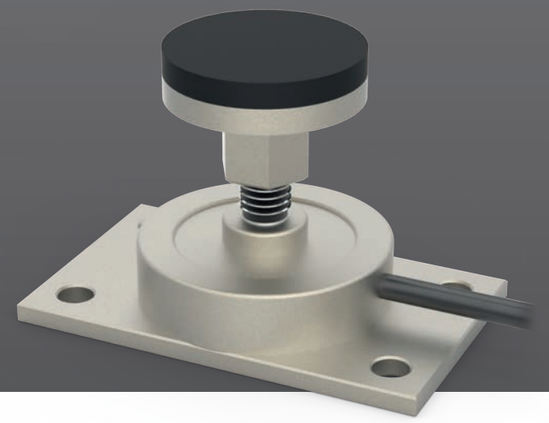
Silentblock characteristic





BPP-LR

Load cell specially designed for the installation under cabin chassis

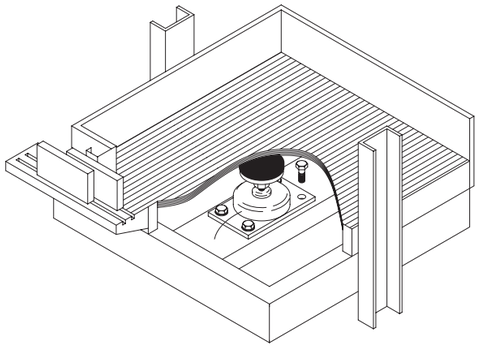


BPP-LR Compression load cell

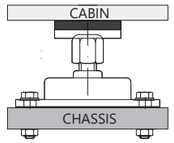
The BPP-LR is a sensor solution to be installed under the lift cabin. The sensors are installed on the center of the lift chassis and receive the weight pressure of the cabin floor.

The BPP-LR design embodies a base to be anchor to the chassis and on the head of the sensor, it is equipped with a silent-block to avoid possible cabin vibrations.

This type of compression sensors provides great reliability and enormous mechanical robustness supporting loads of up to three tons.



For a complete installation



These types of sensors are placed in the elevator chassis and have an USB or 5 cable output termination. For installations that requires more than one sensor, it is possible to connect the sensors to a (1) INTERFACE that also offers the possibility of USB output or 5 wires termination (depending on the type of the unit controllers input).

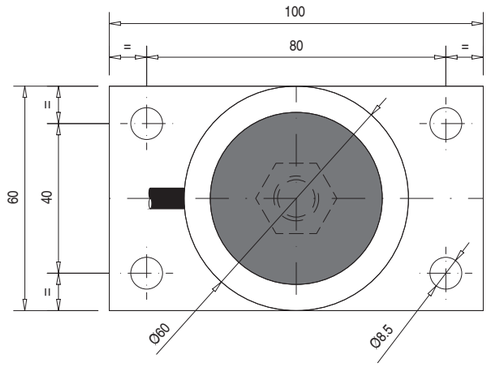
(1) INTERFACE

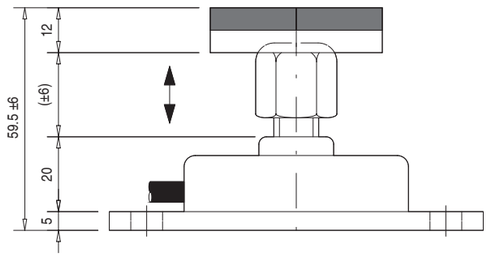
BPP-LR Data Sheet

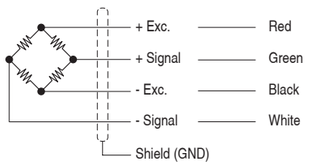
Specifications

Parameter		Units	Specifications
Model		-	BPP-LR
Nominal Load (N.L.)		t	1.2 / 2 / 3
Nominal Sensibility (N.S.)		mV/V	1.4 ... 2.0
Accuracy		-	0,4%
Zero balance		mV/V	± 0,20%
Maximum excitation voltage		V	12
Temperature range	Compensated	°C *(°F)*	-10 ... +40 *(+14 ...+104)*
	Operating		-20 ... +65 *(-4 ... +150)*
	Storage		-20 ... +70 *(-4 ... +158)*
Min. Insulation resistance (V.Test s 100V)		GΩ	4
Input resistance		Ω	350 ± 3
Output resistance		Ω	350 ± 2
Load limit	Safe	%N.L.	150
Cable	Type	-	4 x 0.22 mm² Ø6
	Connector	-	Wiring connection / USB
	Standard length	m	4
	Material		Polyurethane (PU)
Sensor	Material	-	Alloy steel
	Surface treatment	-	Chemical nickel
Protection class		-	IP66

Dimensional drawings (mm) and wiring diagram







CH-100

Pressure sensor for
hydraulic elevators

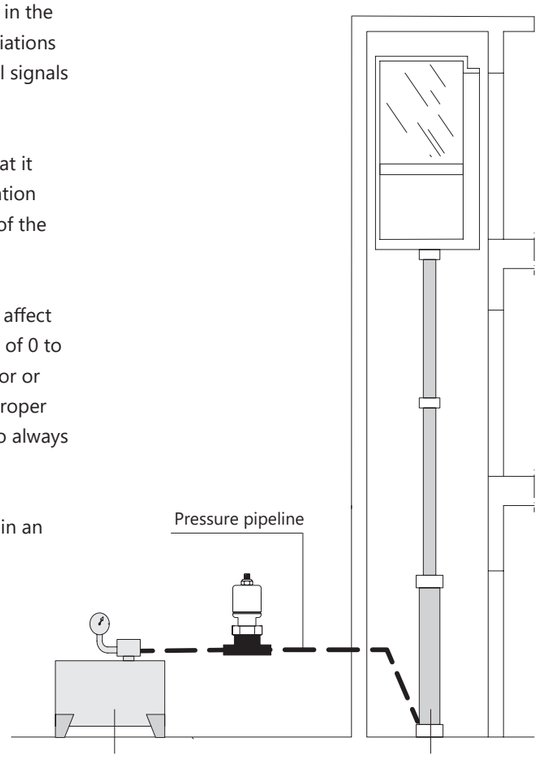
CH-100 Hydraulic pressure sensor

The hydraulic pressure sensor CH-100 has been developed to measure and control the load of hydraulic elevators. The variations of load in the cabin by the entrance or exit of loads or passengers, turn into variations of pressure that converts the hydraulic pressure line into electrical signals measured our control systems.

The CH-100 occupies minimum space, and is installed in a way that it does not interrupt nor alter the flow of the hydraulic fluid. Installation can be done easily by using a T-adapter connection in any point of the pressure pipeline.

The CH-100 sensor is a robust and compact design that does not affect on the reliability of the pressure system. It has a measuring range of 0 to 100 bars, alowing the integration of a load limiter into the elevator or freight lift. The hydraulic sensor has the standard thread for the proper fitting and adapters are offered for other measures, allowing so to always have the solution for your installation.

These sensors are factory calibrated, so they can be used directly in an installation without using a known weight to calibrate it.



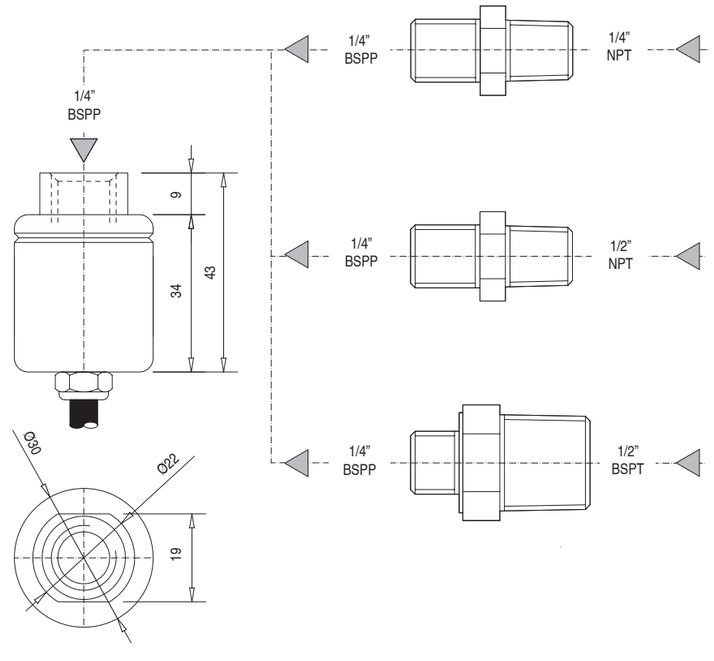
CH-100 Data Sheet

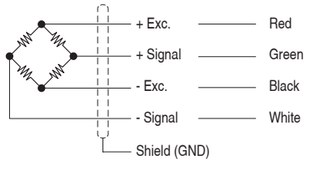
Dinacell electrónica

Specifications

Parameter		Units	Specifications
Model		-	CH-100
Nominal Pressure (N.P.)		bar	100
Accuracy		-	<0.4%
Maximum excitation voltage		V	12
Temperature range	Compensated	°C (°F)	-10 ... +40 *(+14 ...+104)*
	Operating		-20 ... +60 *(-4 ... +140)*
	Storage		-20 ... +70 *(-4 ... +158)*
Min. Insulation resistance (V.Test s 100V)		GΩ	4
Input resistance		Ω	350 ± 1%
Output resistance		Ω	350 ± 1%
Pressure limit	Safe	%N.P	150
	Without characteristics loss		200
Cable	Type	-	4 x 0.22 mm² Ø6
	Standard length	m	4
	Material	-	Polyurethane (PU)
Sensor Material		-	Stainless Steel
Sensor Casing	Material	-	Aluminum
	Surface treatment	-	Anodized
Protection class		-	IP67

Dimensional drawings (mm) and wiring diagram





CHD

Load limitation system
for hydraulic lifts

CHD Load limiter pressure sensor

CHDs are a complete limitation system, composed of a pressure cell and limiting equipment. Cabin load variations by the entry or exit of loads or passengers become pressure variations which in turn convert hydraulic line pressure into electrical signals measured by its integrated control system.

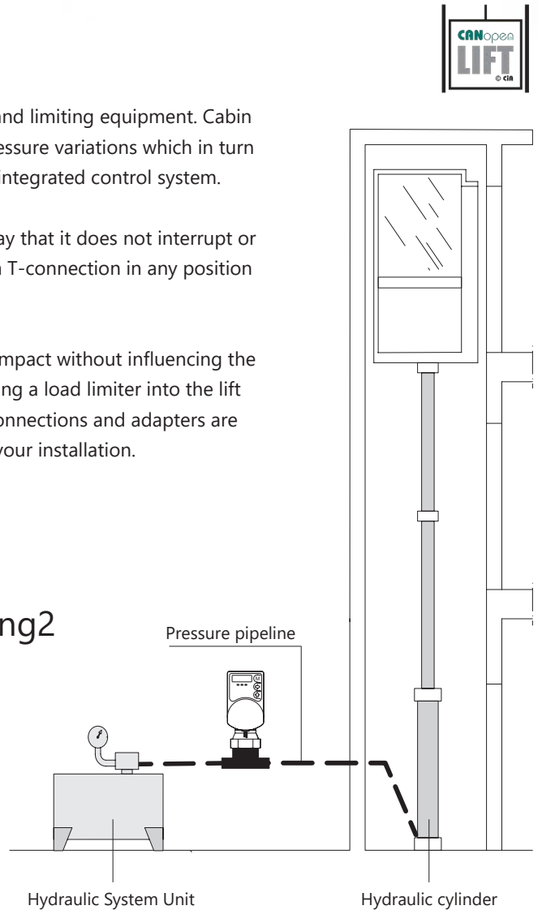
Occupying a minimum space, the CHD system is installed in such a way that it does not interrupt or alter the flow of hydraulic fluid. Installation can be done easily using a T-connection in any position on the pressure line.

The CHD sensor is robust in design, supporting up to 100 bar, and compact without influencing the reliability of the pressure system, while providing the ease of integrating a load limiter into the lift or forklift. The sensor has the standard thread in hydraulic pressure connections and adapters are offered in other sizes so you will always have the proper solution for your installation.

Get the best performance and advantages by using App Tools ng2

Within the CHD family some models integrate Dinacell's NG technology. This technology allows the firmware update and the possibility to connect the (1) GD-WiFi device to the computer. This accessory allows you to configure, calibrate, and obtain installation status information on any device that supports the Tools ng2 app.

(1) GD-WiFi. (For NG technology devices)

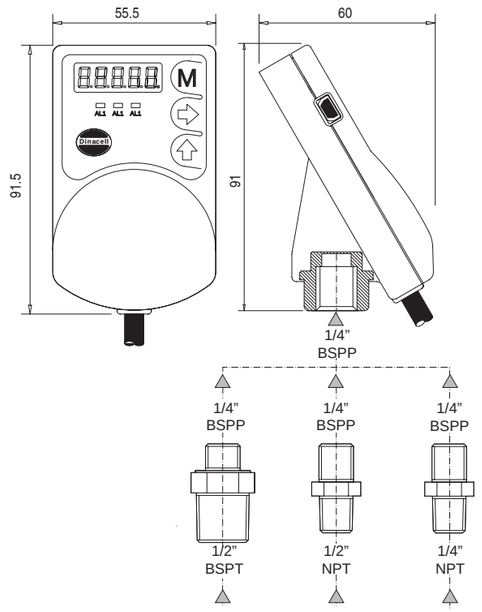


CHD Data Sheet

Specifications

Parameter			Units	Specifications				
Model			-	CHD-2RM	CHD-2Ra	CHD-3R	CHD-C	CHD-Ca
Nominal Pressure (N.P.)			bar	100				
Accuracy			-	0.25%				
Power supply			VDC	24 (18 ... 40)				
Maximum current consumption			mA	65				
Temperature range		Working	°C (°F)	-10 ... +65 (14 ... +149)				
		Storage		-20 ... +70 (-4 ... +158)				
Min. Insulation resistance (V.Test s 100V)			GΩ	4				
Relay		Maximum voltage	VAC	250				
		Maximum current	A	2				
		Number	-	2	2	3	-	-
CANopen-Lift CIA 417			-	-	-	-	✓	✓
Analog outputs 0-10V / 4-20mA / 0-20mA			-	-	✓	-	-	✓
Cabin display MB output			-	✓	-	-	-	-
NG technology (with USB for firmware upgrade)			-	✓				
Hold Input			VAC/DC	12 ... 125				
Pressure limit		Safe	%N.P	150				
		Without characteristics loss		200				
Interface		Display digits	-	5				
		Keys	-	3				
		LEDs	-	3				
Cable		Type	-	10 x 0.22mm² Ø6				
		Standard length	m	2				
Sensor	Material		-	Stainless Steel				
	Casing	Material	-	Aluminum				
		Surface treatment	-	Anodized				
Casing material			-	Fireproof V0				
Protection class			-	IP50				

Dimensional drawings (mm) and wiring diagram



	CHD-2RM	CHD-2Ra	CHD-3R	CHD-C	CHD-Ca
Black	GND				
Red	24VDC				
Purple	Relay 1			Can HIGH	
Blue				Can LOW	
Pink	Relay 2			-	
Brown					
White	Hold (+)				
Gray	Hold (-)				
Green	Cabin disp. +	4-20/0-20mA	Relay 3	-	4-20/0-20mA
Yellow	Cabin disp. -	0-10v		-	0-10v

BPH

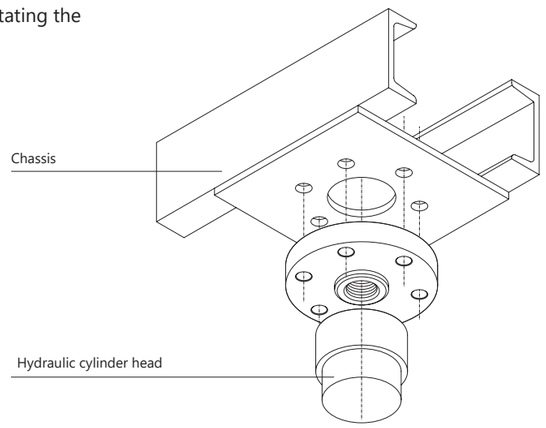
Load cell specially designed for hydraulic elevators

BPH Compression load sensor

BPH load cells are developed & designed to be used for hydraulic elevators. The BPH sensor body is installed between the hydraulic cylinder head and the elevator chassis, occupying a minimum space. There are two different models:

·BPH-GD is installed below the hydraulic cylinder head and it is fixed by compression support.
·BPH-PM is installed below the hydraulic cylinder and it is fixed by thread screws.

The BPH load cells have a compact design, supporting up to 6 Tons, without affecting the reliability regarding the pressure system and facilitating the integration of a load cell in your installation.

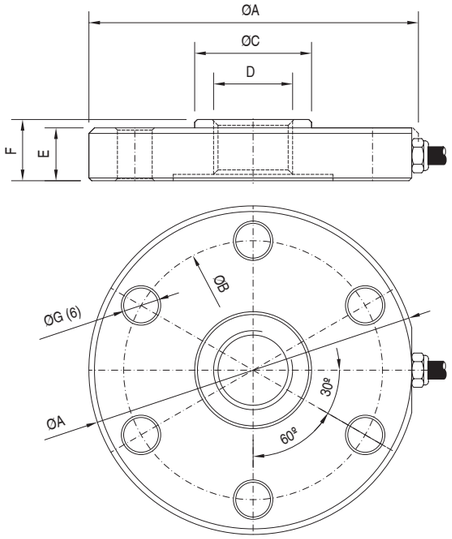


BPH Data Sheet

Specifications

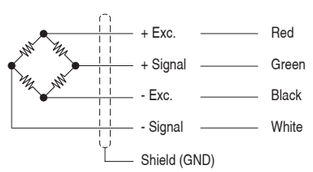
Parameter		Units	Specifications		
Model		-	BPH-GD25	BPH-PM24	BPH-PM30
Nominal Load (N.L.)		t	3 / 6		
Accuracy		-	0.2%		
Zero balance		%mV/V	± 0.20		
Maximum excitation voltage		V	12		
Temperature range	Compensated	°C (°F)	-10 ... +40 (+14 ...+104)		
	Operating		-20 ... +60 (-4 ... +140)		
	Storage		-20 ... +70 (-4 ... +158)		
Min. Insulation resistance (V.Test s 100V)		GΩ	4		
Input resistance		Ω	350 ±3		
Output resistance		Ω	350 ±2		
Límite de carga	Safe	%N.L.	150		
	Breaking		>300		
Cable	Tipo	-	4 x 0.22 mm² Ø6		
	Standard length	m	4		
	Material	-	Polyurethane (PU)		
Sensor	Material	-	Alloy steel		
	Surface treatment	-	Chemical nickel		
Protection class		-	IP67		

Dimensional Drawings (mm)



	BPH-PM24		BPH-PM30		BPH-GD25	
C.N.	3	6	3	6	3	6
ØA	118		145			
ØB	93		112.5			
ØC	36		42		36	
D	M-24		M-30		Ø25	
E	19		25			
F	22		30			
ØG	12.5		15			

Wiring diagram



Load limiting device

RCU

An affordable Load Limiting device for elevators

RCU Load limiting device

The RCUs have been specially designed for load limitation in elevators. These units have low energy consumption and can be connected in any type of installation by using different type of sensor application like on ropes, fixed point, under cabin & etc.

The RCUs are affordable units due to the price & quality ratio and an excellent solution for limiting the load of an elevator. Among its wide variety of range, you will find these main features:

- 4-20mA, 0-20mA, 0-10V analog outputs.
- Can Bus communication: CANopen-Lift CiA 417.
- NG technology, with firmware update via USB.
- Internal chain compensation function.

Get the best of performance by using app Tools ng2

Within the RCU family, some models integrate Dinacell NG technology. This technology allows firmware updating and the possibility of connecting our device (1) GD-WiFi. This accessory enables to configurate, calibrate and get accurate information of the installation status in on any compatible device with Tools ng2 App.

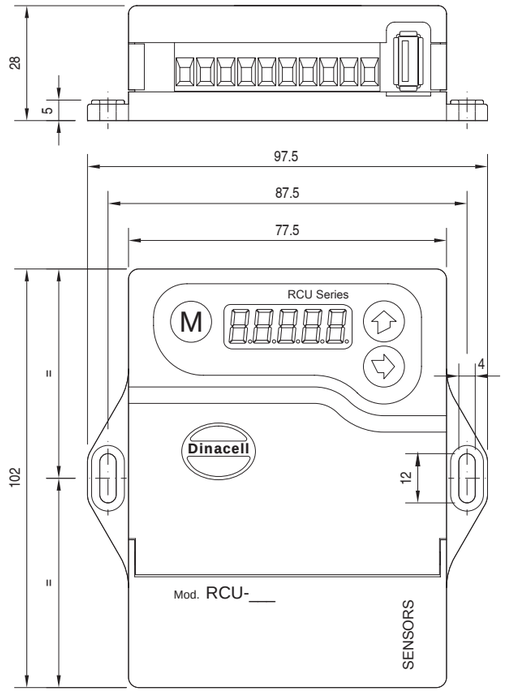
(1) GD-WiFi.
(For NG technology devices).

RCU Data Sheet

Specifications

Parameter		Units	Specifications			
Models		-	RCU-210N	RCU-250	RCU-2Ra	RCU-C
Cell signal	Input range	mV/V	± 3.9			
	Input channel	-	1 USB			
Accuracy		-	0.1%			
Power supply		VDC	24			
Maximum power consumption		W	2			
Maximum number of 350 Ω cells		-	8			
Temperature range	Working	°C (°F)	-10 ... +65 (+14 ...+149)			
	Storage		-20 ... +70 (-4 ... +158)			
Relay	Max. voltage	VAC	250			-
	Max. current	A	2			-
	Number	-	2			-
Alarms		-	2			3
Analog outputs	4-20 mA	-	-	-	✓	-
	0-20 mA	-	-	-	✓	-
	0-10 V	-	✓	-	✓	-
	0-5 V	-	-	✓	-	-
CANopen-Lift CIA 417		-	-	-	-	✓
NG technology (needs Gateway)		-	-	-	✓	✓
Mini USB for firmware upgrade		-	✓	-	✓	✓
Hold Input		VAC/DC	24 ... 125			
Interface	Display digits	-	5			
	Keys	-	3			
Casing material		-	Fireproof plastic ABS			
Protection class		-	IP50			

Dimensional Drawings (mm)



VK

Load limiter device for elevators

VK Load limiter device

VK Load limiter devices, with the accuracy of 0.1%, are distinguished in the market for their great versatility in adapting and resolve any potential requirement as load limiter device for elevators.

Although this device only has one input channel, it could be used in scenarios with several load cells or sensors by using Dinacell summing boxes. This limiter is applicable in any measuring system like in ropes, chassis, under cabin, under bedframe, etc.

Among the wide variety of VK unit, different firmware's included. Based on each model, different main features are included as:

· Error detection
· Chain compensation.
· Three alarm relays.
· Inhibition input (Hold).
· Short-circuitable power supply (no fuse required).

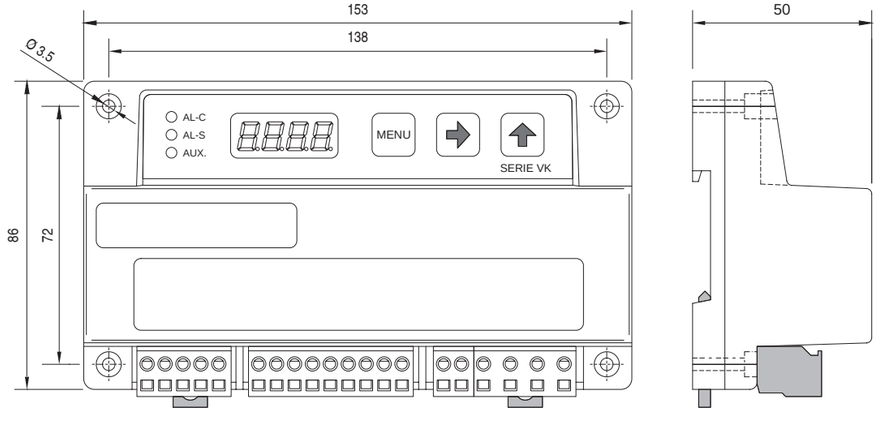
VK Data Sheet

Specifications

Parameter		Units	Specifications				
Models		-	VK-3	VK-3SV (1)	VK-3V	VK-3i	VK-30C
Cell signal	Input range	mV/V	± 3.2				
	Input channel	-	1				
Accuracy		-	0.1%				
Power supply	AC	VAC	230 / 115 / 48				230
		Hz	50 ... 60				
	DC	VDC	-	24			-
Maximum power consumption		W	5				
Maximum number of 350 Ω cells		-	10				
Temperature range	Working	°C (°F)	-10 ... +65 (+14 ...+149)				
	Storage		-20 ... +70 (-4 ... +158)				
Relay	Max. voltage	VAC	250				
	Max. current	A	3				
	Number	-	3				
	Contact	-	Switching	Usually open			
Alarms		-	3				
Analog outputs	4-20 mA	-	-	-	-	✓	-
	0-10 V	-	-	-	✓	-	-
Cabin display MB output		-	✓				
Hold Input		VAC/DC	24 ... 230				
Interface	Display digits	-	4				
	Keys	-	3				
	LEDs	-	3				
Casing material		-	Fireproof plastic ABS				
Fixing		-	DIN rail				
Protection class		-	IP50				

(1) VK-3SV is a device with a firmware specially designed to work with SV cells.

Dimensional Drawings (mm)



OMEGA

Load limiter for elevators,
with individual data reading
for each sensor

CSA B44.1/ASME A17.5

OMEGA Load limiting device

Omega devices are load limiters and rope tension control units. These controllers can obtain the individual data reading from up to 16 sensors. The unit can be connected to any controller through relay alarms or analogue outputs, as well as CAN communication.
Features:

· 4 relays and 5 alarms (full-load, overload, empty cabin, slack ropes, broken rope).
· NG technology, with firmware updating via USB.
· Sensor failure detection.
· Chain compensation via software or hardware.
· Short circuitable power supply: fuse not required.

Get the best of performances by using app Tools ng2

Within the OMEGA range of products, some of them integrates Dinacell NG technology. The technology allows firmware updating and the possibility of connecting our device (1) GD-WiFi. This accessory allows to configure, calibrate and get accurate information of the installation status in any device compatible with Tools ng2 App.

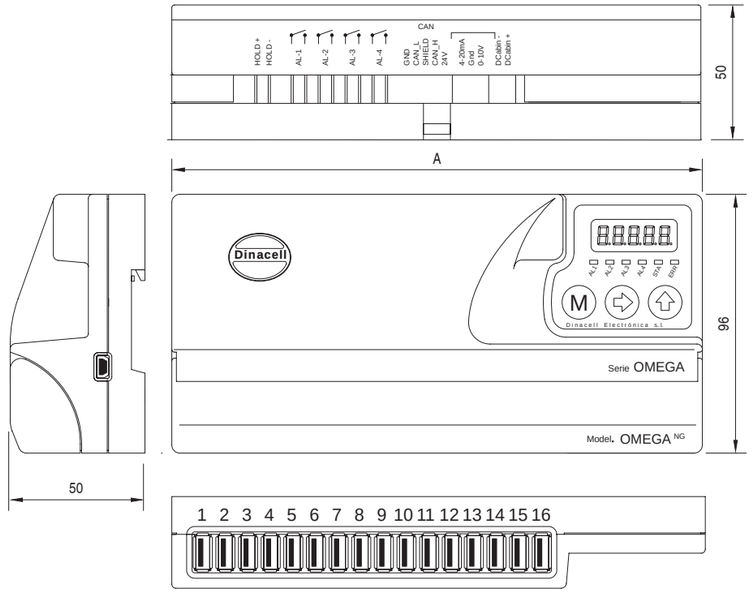
(1) GD-WiFi. (For NG technology devices).

OMEGA Data Sheet

Specifications

Parameter		Units	Specifications													
Models		-	OMEGA6-4RMA	OMEGA6-4R5V	OMEGA6-4R	OMEGA6-C	OMEGA6-Ca	OMEGA12-4RMA	OMEGA12-4R5V	OMEGA12-4R	OMEGA12-C	OMEGA12-Ca	OMEGA16-4RMA	OMEGA16-4R	OMEGA16-C	OMEGA16-Ca
Cell signal	Input range	mV/V	± 3.1													
	Input channel	-	6					12					16			
Accuracy		-	0.03%													
Power supply		VDC	10 ... 40													
Maximum current consumption		mA	<200													
Temperature range	Working	°C *(°F)*	-10 ... +65 *(+14 ...+149)*													
	Storage		-20 ... +70 *(-4 ... +158)*													
Relay Contact	Max. voltage	VAC	250													
	Max. current	A	3													
	Type	-	NO													
Relay Number		-	4			-		4			-		4		-	
Alarms		-	5													
Analog outputs 0-10V / 4-20mA / 0-20mA		-	✓	-	-	-	✓	✓	-	-	-	✓	✓	-	-	✓
Analog outputs 0-5V		-	-	✓	-	-	-	-	✓	-	-	-	-	-	-	-
CANopen-Lift CIA 417 (Isolated)			-	-	-	✓	✓	-	-	-	✓	✓	-	-	✓	✓
Cabin display MB output		-	✓	-	-	-	-	✓	-	-	-	-	✓	-	-	-
NG technology (with USB for firmware upgrade)		-	✓													
Hold Input		VAC/DC	12 ... 125													
Interface	Display digits	-	5													
	Keys	-	3													
	LEDs		6													
Casing material		-	Fireproof plastic ABS													
Fixing		-	DIN rail													
Protection class		-	IP50													

Dimensional drawings (mm) and wiring diagram



Models	OMEGA6 OMEGA12	OMEGA16
A	165	200

Tension measurement tools

RTM

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.

RTM Data Sheet

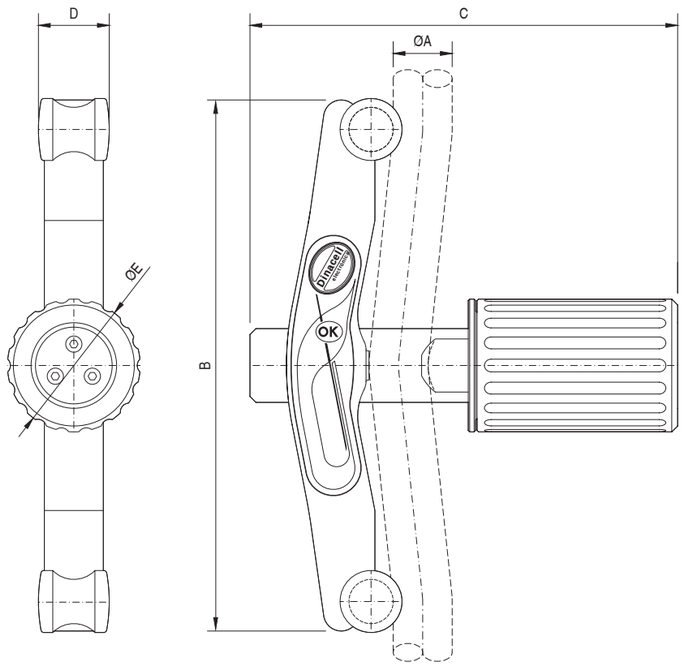
Dinacell electrónica

Specifications

Parameter		Units	Specifications														
Model		-	RTM-1							RTM-2							
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	°C *(°F)*	-10 ... +40 (+14 ... +104)														
	Operating		-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	%N.L.	150														
	Without characteristics loss		200														
Cable	Standard length	m	2														
	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

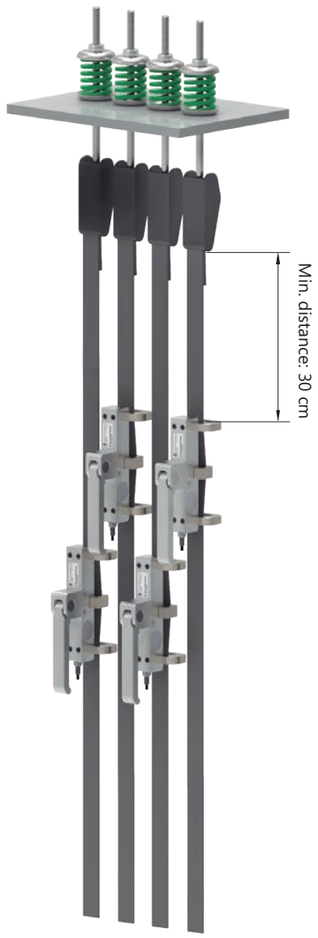
BTM

Sensor to check and measure tension on belts

Plug & Play
Factory adjusted

BTM Sensor to measure tension on belts

The BTM's are plug & play sensors (factory adjusted) and are specially designed to measure belt tension. Its tightening system allows you to install and uninstall the sensors quickly and easily.



Make the most out of your sensors

You can purchase these sensors in kit format. The use of these sensors together with the DELTA device makes this kit the perfect tool to measure and check the tension on belts.

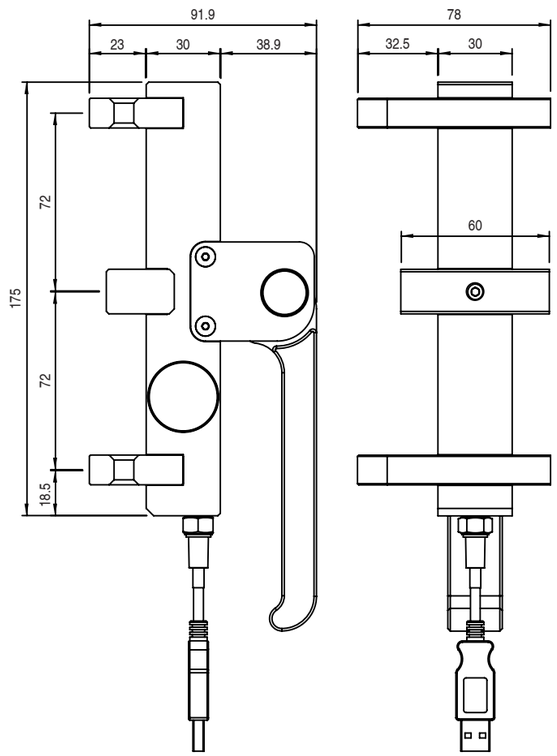
BTM Data Sheet

Dinacell electrónica

Specifications

Parameter		Units	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	mm	3		3.3			4.6	
Minimum recommended distance to belt terminal		cm	30						
Maximum excitation voltage		V	12						
Temperature range	Compensated	°C (°F)	*-10 ... +40 (+14 ... +104)*						
	Operating		-20 ... +60 (-4 ... +140)						
	Storage		-20 ... +70 (-4 ... +158)						
Min. Insulation resistance (V.Test s 100V)		GΩ	4						
Input resistance		Ω	350 ... 450						
Output resistance		Ω	350						
Load limit	Without characteristics loss	kg	1600						
Cable	Standard length	m	2						
	Connector	-	USB						
	Material	-	Polyurethane (PU)						
Sensor	Material	-	Aluminum						
	Surface treatment	-	Anodized						
Protection class		-	IP50						

Dimensional Drawings (mm)



DELTA

Check and diagnosis device
for ropes and belts

DELTA Tension diagnosis device

DELTA is a new Dinacell Electrónica generation measurement device. It is intended for the control and diagnosis of individual ropes or belt tension. It can measure and check individually up to 16 ropes or belts.

The DELTA device is a stand-alone device that opens up more comfortable and independent use of the power supply system at the installation. The connectivity of this device is through integrated WiFi. In order to ensure the best possible control of each installation, the “Tools ng2” app, available for computer and tablet, communicates with your device and allows you to create result report.

Diagnosis and checking App Tools ng2

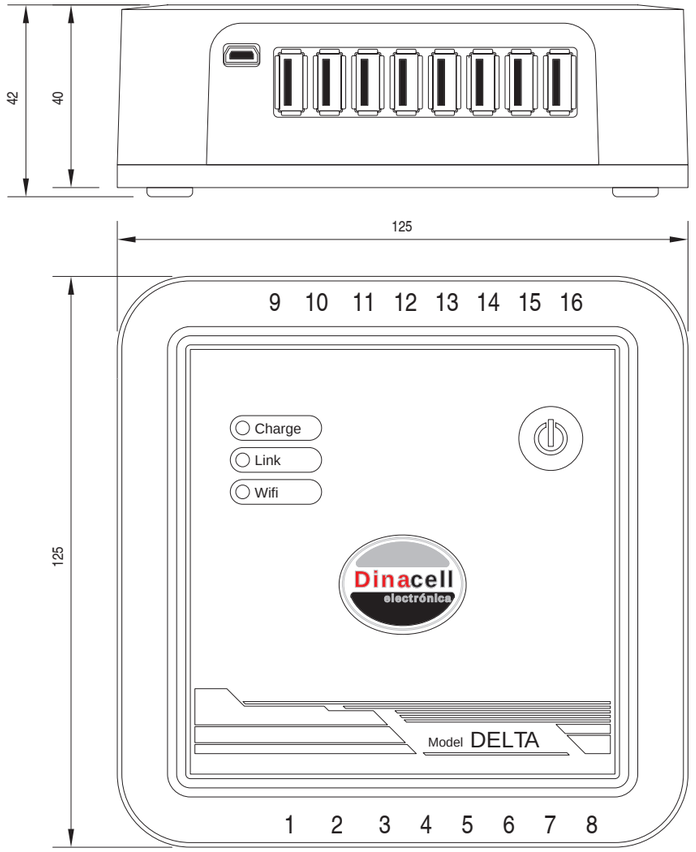
The software “Tools ng2” is available for free and allows to control the tension and leveling of ropes or belts can be. This application is compatible with Android, iOS and Windows. Once the adjustment is made, a report with the final result can be generated.

DELTA Data Sheet

Specifications

Parameter		Units	Specifications	
Models		-	DELTA-8S	DELTA-16S
Maximum number of sensors		-	8	16
Rechargable battery		Vdc / mAh	3.7 / 5000	
Estimated battery service	For 8 sensors	h	24	
	For 16 sensors	h	16	
Power supply	Input	Vac / Hz	100 - 240 / 50/60	
	Output	Vdc / A	5 / 2.1	
Accuracy (Sensor dependent)		%	0.1	
Temperature range	Operating	°C *(°F)*	-10 ... +40 *(+14 ... +104)*	
	Storage		-20 ... +65 *(+4 ... +150)*	
Conectivity		-	WiFi	
		-	USB OTG	
Casing	Material	-	ABS	
	Protection class	-	Fireproof V0	
Protection class		-	IP50	
Fixing		-	Magnet	

Dimensional drawings (mm) and wiring diagram

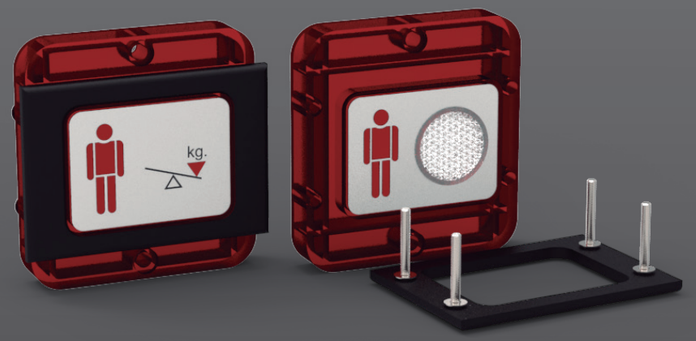


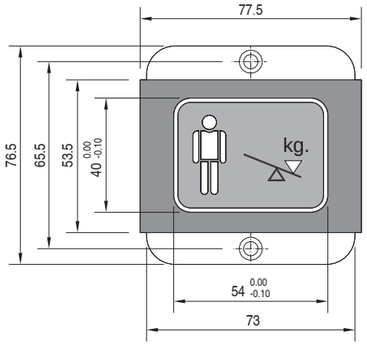
Accesories

MB

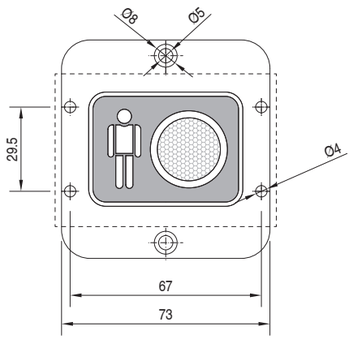
Cabin display

The cabin display MB models are designed to indicate visually the load inside the cabin. It shows a progressive luminous indication based on the weight loaded inside the cabin. Also, this accessory is compatible with any Dinacell device that has a cabin display input.

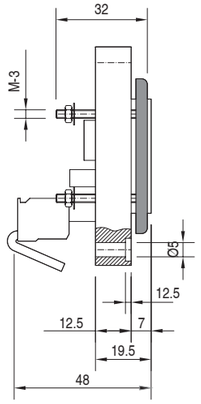




- MB-N1
- MB-N6



- MB-NL1
- MB-NL6



	MB-N1	MB-NL1	MB-N6	MB-NL6
Visual progressive load indication	-	-	✓	✓
Full load indicator	✓	✓	✓	✓
Visual overload indicator	✓	-	✓	-
Emergency lighting	-	✓	-	✓
Unpolarized connection	-	-	✓	✓
Tainless steel front panel	✓	✓	✓	✓
Ref.	**007415**	**012454**	**012455**	**012456**

For other designs and special dimensions, contact with our sales department.

INTERFACE

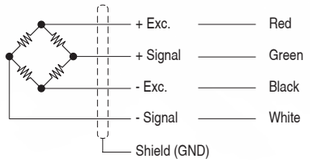
6 or 12 USB junction box

The INTERFACE USB Hub allows you to connect a set of up to twelve cells in a single output. This makes it allows us to install load limiters with a single input.

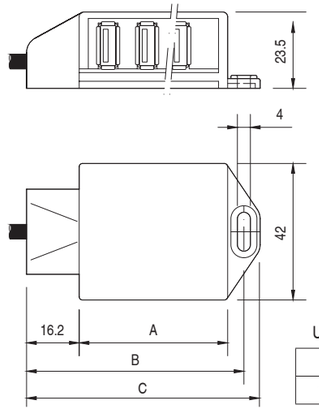
INTERFACE Junction boxes

There are two types of INTERFACE USB Hubs, depending on the number of USB inputs. So that one can connect either 6 or 12 USB's into a single output group.

These two models can vary depending on the termination of the cable either with USB or wire connection.



Parameter	**Units**	**Specifications**			
Model	-	INTERFACE			
Temp range.	°C *(°F)*	-20 ... +60 *(-4 ... +140)*			
Casing material	-	Fireproof plastic ABS			
Protection class	-	IP50			
Cable type	-	4 x 0.22 mm² Ø4			
Standard length	m	5 + Ferrite			
USB Input	-	6		12	
Cable Output	-	USB	Wiring connection	USB	Wiring connection
Ref.		007555	007274	007554	007275



Dimensions in mm

USB	A	B	C
6	48	69	74
12	84	105	110

GD-WIFI

WiFi-USB gateway

This device is compatible with any controllers developed with Dinacell NG technology.

Tools ng2

Free application for PC, tablet or Smartphone

Download on the App Store

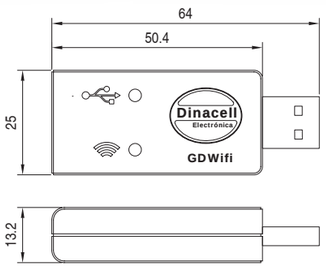
GET IT ON Google Play

Compatible application with Android, IOS and Windows.

GD-WIFI Gateway device

By link this device to the Dinacell limitation controller, allows to configure, calibrate and obtain information on the status of your installation.
All through the Dinacell ng2 tools.

Ref.	018512



Parameter		Units	Specifications
Model		-	GD-WiFi
Power supply		VDC	5
Temp range.	Operating	°C (°F)	0 ... +70 (+32 ...+158)
	Storage		-10 ... +70 (-14 ... +158)
WiFi	Wifi Frequency	GHz	2.4
	Output power	dBm	18
	Input sensivity	dB	-85
USB Connectivity	Interface	-	USB Type A + OTG to mini USB adapter
	Version	-	2.0
Casing material		-	Fireproof plastic ABS
Protection class		-	IP50

Ability to calibrate and configure devices compatible with NG technology

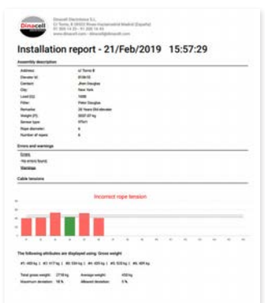
Using the GD-WiFi accessory, together with the Tools ng2 app, you can have control of the installation and configure any Dinacell device featuring NG technology.

Cable tension adjustment function

Thanks to Dinacell's measurement tools and the Tools ng2 application, it is possible to adjust the tension of the cables in a simple and intuitive way.

Ability to generate reports of the current status of the installation

The Tools ng2 app will allow you to generate reports on the current status of the installation, being able to optimize the time with greater efficiency. It should be noted that the information contained in these reports is customizable by the user.



ELEVATOR CATALOGUE

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Dinacell Electrónica S.L.
Pol. Ind. Santa Ana C/ El Torno Nº8
CP 28522 Rivas Vaciamadrid, Madrid, ESPAÑA
Tel. (+34) 913 001 435 Fax. (+34) 913 001 645

www.dinacell.com

dinacell@dinacell.com

Dinacell Electrónica S.L.
Pol. Ind. Santa Ana C/ El Torno Nº8
CP 28522 Rivas Vaciamadrid, Madrid, ESPAÑA
Tel. (+34) 913 001 435 Fax. (+34) 913 001 645
dinacell@dinacell.com
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