

**GRUPO EPELSA**

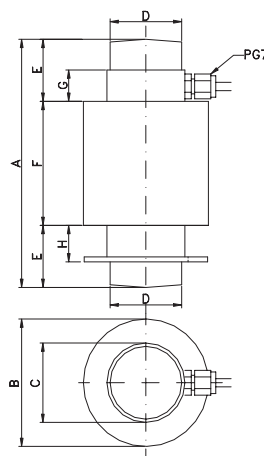
www.grupoepelsa.com

**LOAD CELL
TECHNICAL SHEET****MODELO****CPC****LOAD CELL MODEL CPC**

Capacity	Dimensions en mm							
kg	A	B	C	D	E	F	G	H
10t / 50t	150	77	48	44	36	78	18	21

**REFERENCES OF LOAD
CELLS CPC****CPC(3000 divisiones) 2mV/V**

Reference	Capacity
0000525001	10000 kg
0000525002	20000 kg
0000525004	30000 kg
0000525005	40000 kg
0000525006	50000 kg

**GENERALITIES**

- Load cell, with strain gauge with double shear beam casin. Sealed by laser welding giving IP68 degree protection.
- The metallic structure is of special steel, with stainless steel protection. AISI 304 stainless Housing.
- Design prepared to avoid the use of screws in the mounting, that assures speed and avoids fixing errors.

TECHNICAL CHARACTERISTICS $g=9,80308 \text{ m/s}^2$ Capacities in kg ($E_{\max}$)

2mV/V sens. $\pm 1\%$	10.000	20.000	30.000	40.000	50.000
--------------------------	--------	--------	--------	--------	--------

(F.S.) = Full Scale

Power supply	(V)	10VDC(Máx.15V DC,AC)
Input impedance	(OHM)	$700 \pm 10\%$
Output impedance	(OHM)	$700 \pm 1\%$
Isolation	(MOHM)	>5000 (a 50V)
Zero balance	(% F.S.)	< 1
Nominal over-load	(% F.S.)	150
Limit over-load	(% F.S.)	300
Temperatura range		
- Compensated	(°C)	- 10 ...+ 40
- Service	(°C)	- 20 ...+ 60
- Storage	(°C)	- 25 ...+ 75

Number of load cell intervals

3000 d

Maximum capacities kg

10000÷50000

 $Y=E_{\max} / V_{\min}$

12.000

Creep in 4 h (% F.S.)

 < 0.3 Return to zero $\frac{1}{2}$ h (% F.S.) < 0.011

Non linearity (% F.S.)

 < 0.02

Hysteresis (% F.S.)

 < 0.02

Combined error (% F.S.)

 < 0.025

Repeatability (% F.S.)

 < 0.01

Temperature coefficient

- Sensitivity (% F.S./°C)

 < 0.0013

- Without load (% F.S./°C)

 < 0.0014

OIML R60 accuracy class

C3↓

COMPONENTS

- LOAD CELL (1 unidad)
- UPPER PENDLE SUPPORT (1 unidad)
- LOWER PENDLE SUPPORT (1unidad)
- ROTATION STOP ROD (1 unidad)
- RUBBER BELLOWS (1 unidad)
- BRIDLE ATTACHMENT BELLOWS (1 unidad)
- EXCENTRIC WASHERS (3 unidades) 0,236kg/ud

Packaging dim: 30x21,5x12,5 cm

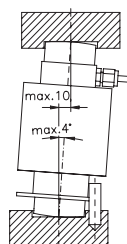
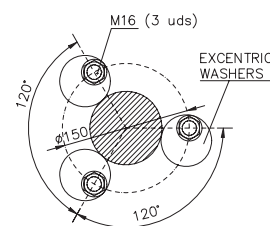
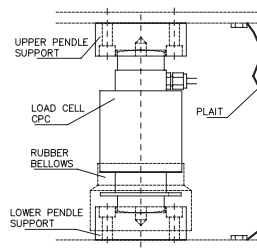
Gross weight: 6,10 kg +0,708 = 6,808 kg

CONNECTION CABLE

- Cell length 15 m, $\varnothing$ 5 mm.
- Formed by 4 cables of 0,24 mm² covered by teflón, plus protective shield isolated from the cell structure and a global cover of black PVC.
- The colour code of these cables is:
Supply(+) red; Supply(-)Black.
Output(+) green; Output (-) white.
Mesh violet.

NET WEIGHT

CPC 10t / 50t 5,700 kg

IMPORTANT INSTALLATION NOTES

- This cell needs to work with its upper face in horizontal position and level.
- It's advisable to joint with a metallic twist the weighing element with the plate that acts as the base of the cell, to avoid the external electric currents cross through the internal part of the load cell.
- The assembly, rotation stop rod must be inserted into its correct position, locales on the lower Pendle support.

**INTERNATIONAL APPROVAL CERTIFICATES**

UE - Certificate E-05.02.C03.

OPTION:

ATEX



Certificate ATEX LOM 10ATEX2036 for class:

II 1GD Ex ia IIC T4..T6, P_i=2,9..0,73 W.

