

Load cells  
for technical vehicle  
inspections



## PAR Bending or shear load cells

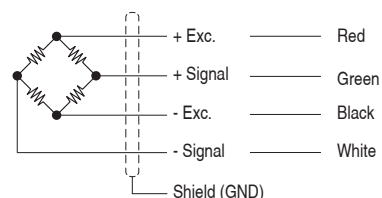
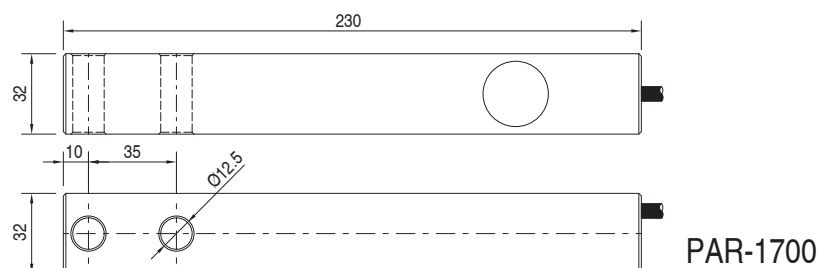
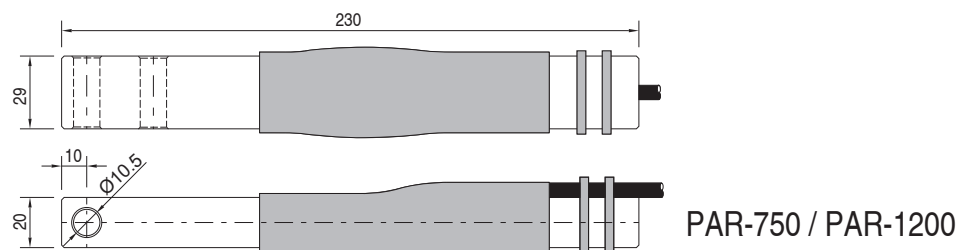
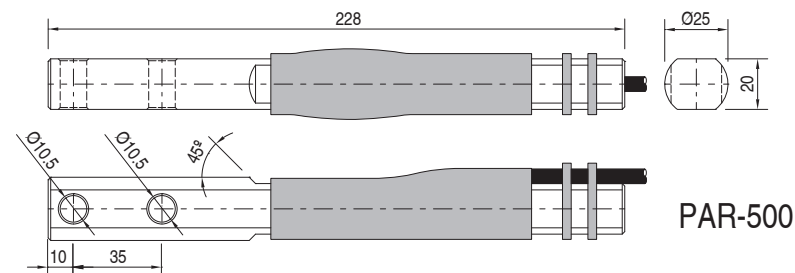
These load cells have been designed to measure the torque exerted on all types of benches such as those used in brake testers.

Its main application is the measurement of braking force in both light vehicles and higher weighing vehicles in the Technical Vehicle Inspection (TVI) tests. With a simple design they are designed to withstand overstrains in this type of testing.

## Specifications

Parameter		Units	Specifications			
Model		-	PAR-500	PAR-750	PAR-1200	PAR-1700
Nominal Force (N.F.)		kgF	250	500	1200	1700
Working on		-	Bending Beam		Shearing	
Nominal Sensibility (N.S.)		mV/V	2.0		1.4	
Zero balance		%N.S.	5			
Maximum excitation voltage		V	12			
Hysteresis error		%N.S.	<0.2			
Non-repeatability		%N.S.	<0.15			
Maximum linearity error		%N.S.	≤ 0.09			
Combined error		%N.S.	<0.3			
Temperature range	Compensated	°C (°F)	-10 ... +40 (+14 ... +104)			
	Operating		-20 ... +40 (-4 ... +140)			
	Storage		-20 ... +70 (-4 ... +158)			
Min. Insulation resistance (V. Test s 100V)		GΩ	5			
Input resistance		Ω	350 ± 3			
Output resistance		Ω	350 ± 1.5			
Load limit	Safe	%N.F.	125			
	Without characteristics loss		150			
	Breaking		> 250			
Cable	Type	-	4 x 0.25 mm <sup>2</sup> Ø4			
	Standard length	m	3.5			
	Material	-	Polyurethane (PU)			
	Surface treatment	-	Chemical nickel			
Sensor	Material	-	Alloy steel			
	Surface treatment	-	Chemical nickel			
Protection class		-	IP65			

## Dimensional drawings (mm) and wiring diagram



## Product Reference



Ref.	Nominal Load (kgF)	Model
000962	250	PAR-500



Ref.	Nominal Load (kgF)	Model
000967	500	PAR-750
013161	1200	PAR-1200



Ref.	Nominal Load (kgF)	Model
016996	1700	PAR-1700

For more information

[www.dinacell.com](http://www.dinacell.com)

Dinacell Electrónica S.L.  
 Pol. Ind. Santa Ana C/ El Torno N°8  
 CP 28522 Rivas Vaciamadrid, Madrid, ESPAÑA  
 Tel. (+34) 913 001 435  
 Fax. (+34) 913 001 645

**Document Ref: D1794-01**  
**Publication Date: 09/06/2023**

Certified company



Dinacell Electrónica S.L. reserves the right to add, modify and/or delete content of the document without prior notice. The content indicated here should be used as general product information. It should not be interpreted as a guarantee of quality or durability.