











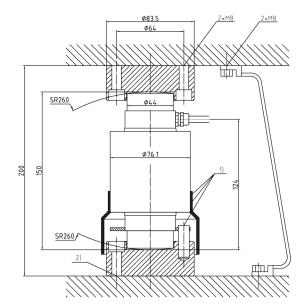
## Main Features:

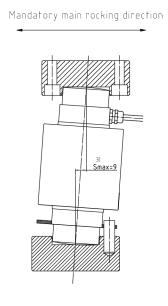
- Material: Alloy steel, stainless steel optional
- Rated Capacities: 30t~50t
- OIML R60, NTEP HB44, CPA, CE and RoHS certified
- IP Rating: IP68(P510A), IP69K(P510S)
- Suitable for truck scales, heavy duty hopper scales, force measurement equipment.
- High precision by OIML R60 C4, high reliability

## **Product description:**

The P510 series is a typical and standard cost-efficient canister compression load cell with compact and robust machined canister. The P510 is fully hermetically sealed with upper and base convers; which enable it to work in the harshest conditions. A rocker column design ensures optimum weighing accuracy when subjected to off-center and side forces when the scale deck is moving back and forth, meanwhile left and right.

## Dimensions (mm&inch):





#### Notes

- Dowel pin [Ø10×30; rotation stop]; flexiable tube and tube clip enclosed in the packing of the load cell
- <sup>2)</sup> Fixing bolt, drawing turned by 90°
- 3) Smax=max. lateral displacement of load introduction.
  Recommended gap is 3 ... 5mm

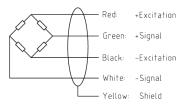


# P510 Self-restoring Rockerpin Load Cell Specifications

Patameter		Units	Specifications	
Model No.			P510A / P510S	
Rated capacity (Emax)		t	30 / 40 / 50	
Accruacy class 1)2)			C3 C4	
Min. dead load		kg	0	
Rated output		mV/V	2.0 ± 0.002	
Zero balance		% of E <sub>max</sub>	± 1	
Repeatability error		% of AL <sup>3)</sup>	< ± 0.010 < ± 0.005	
Creep; 30 minute		% of AL	< ± 0.017 < ± 0.0125	
Min. dead load output return (DR); 30 min		% of AL	< ± 0.017 < ± 0.0125	
Temp. effect on	Min. dead load output	% of E <sub>max</sub> /°C	< ± 0.0020 < ± 0.0014	
	Rated output <sup>2)</sup>	% of AL/°C	< ± 0.0012 < ± 0.0009	
Temperature range	Compensated		-10 to +40 [+14 to +104]	
	Operating	°C(°F)	-40 to +65 [-40 to +149]	
	Safe storage		-40 to +80 [-40 to +176]	
Excitation voltage	Recommended	V AC/DC	5 ~ 15	
	Maximum		15	
Terminal resistance	Excitation	Ω	766 ± 10	
	Output		700 ± 3	
Insulation resistance @50VDC		ΜΩ	> 5000	
Breakdown voltage		V AC	> 500	
Seal type / IP rating			Hermetically welded / IP68	
Load limit -	Safe	% of E <sub>max</sub>	150	
	Ultimate		300	
Material	Spring element		Alloy steel / Stainless steel	
	Strain gauge		PEEK	
	Cable construction	Standard	Fireretardant PVC jacket, 6mm O.D.; 4 Conductors dual shielded wires	
		Option	Exterior braided armor covered with fireretardant PVC; PVC chemically resistant jacket, 7mm O.D.; 4 Conductors triple shielded wires	
Cable length		m	16.0	
Weight; approx		kg	6.0	
Fatigue life		cycles @Emax	>1,000,000	
Deflection at Emax; approx		mm	< 0.6	
Barometric pressure effect on Zero Output		Vmin/kPa	< 1.0	

### **Notes:**

Cable Colour Code: (4-wire circuit)



Shield connected to load cell body

# Interchangeable Products:

Manufacturer	Model
НВМ	C16A
Vishay revere	ASC

<sup>&</sup>lt;sup>1)</sup> Error due to the combined effect of non-linearity and hysteresis

<sup>&</sup>lt;sup>1</sup> The sum of errors due to Temperature Effect on Output comply with the requirements of OIML R60 and NIST HB44

<sup>&</sup>lt;sup>3)</sup> AL = Applied Load