



VISHAY - Model ASC Load Cell



Product Description

The ASC is a single column, stainless steel compression load cell. This product is suitable for use in road and rail weighbridges and process weighing applications. The welded construction and built-in surge protection ensure that this product can be used successfully in harsh environments.

This load cell meets the stringent Weights and Measures requirements both in Europe (OIML) and in America (NTEP).

Application

- ☐ Weighbridges
- ☐ Silo hopper weighing

Basic Features

- ☐ Capacities: 30, 40, and 50t
- ☐ Self-aligning, stainless steel single column
- ☐ Hermetically sealed, IP66 and IP68
- ☐ Certified to OIML R60, 6000d and NTEP class III, 10000 divisions
- ☐ Built-in surge protection tubes (GDTs)
- ☐ Current calibration output (SC) ensures easy and accurate parallel connection of multiple load cells

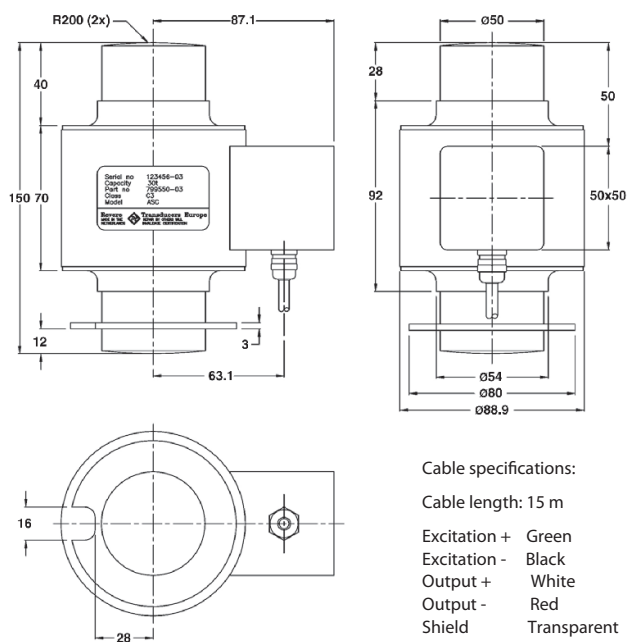
Specifications

PARAMETER	VALUE				UNIT
Standard capacities (E_{max})	30, 40, 50				t
Accuracy class according to OIML R-60	NTEP IIIIL	Non-Approved	C3	C6	
Max. no. of verification intervals	10000		3000	6000	
Min. verification interval ($V_{min} = E_{max}/Y$)			$E_{max}/6,000$	$E_{max}/12,000$	
Min. verification interval, type MR			$E_{max}/15,000$	$E_{max}/30,000$	
Rated output ($=S$)	2				mV/V
Rated output tolerance	0.02				$\pm$ mV/V
Zero balance	1.0				$\pm\%$ FSO
Combined error	0.0200	0.05000	0.0230	0.0120	$\pm\%$ FSO
Non-repeatability	0.0100	0.0200	0.0100	0.018	$\pm\%$ FSO
Minimum dead load output return	0.0250	0.0500	0.0167	0.008	$\pm\%$ FSO
Creep error (30 minutes)		0.0600	0.0245	0.0120	$\pm\%$ FSO
Creep error (20 - 30 minutes)	0.030	0.0200	0.0053	0.0026	$\pm\%$ FSO
Temp. effect on min. dead load output	(0.001)	0.0250	0.0117	0.0058	$\pm\%$ FSO/ $^{\circ}$ C ($/^{\circ}$ F)
Temp. effect on min. dead load output, type MR			0.0047	0.0023	$\pm\%$ FSO/ $^{\circ}$ C
Temperature effect on sensitivity	(0.0008)	0.0250	0.0088	0.0045	$\pm\%$ FSO/ $^{\circ}$ C ($/^{\circ}$ F)
Minimum dead load	0				$\% E_{max}$
Maximum safe over load	150				$\% E_{max}$
Ultimate over load	300				$\% E_{max}$
Deflection at E_{max}	0.5 max.				mm
Excitation voltage	5 to 20				V
Maximum excitation voltage	25				V
Input resistance	700 $\pm$ 35				Ω
Output resistance	700 $\pm$ 35				Ω
Insulation resistance	$\geq$ 5000				M Ω
Compensated temperature range	-10 to +40				$^{\circ}$ C
Operating temperature range	-40 to +80				$^{\circ}$ C
Storage temperature range	-40 to +90				$^{\circ}$ C
Element material	Stainless steel 1.4542				
Sealing (DIN 40.050 / EN60.529)	IP66 & IP68				
SC-Version (current calibration)	Standard				

FSO-Full Scale Output

SC-version: The rated output and the output resistance are balanced in such a way, that the output current is calibrated to within 0.05% of a reference value. This allows easy parallel connection of the load cells.

Dimensions in mm - Wiring



Cable specifications:

Cable length: 15 m

Excitation + Green

Excitation - Black

Output + White

Output - Red

Shield Transparent

Shield is not connected to the load cell body.