Model ASC

Revere

VISHAY PRECISION GROUP

Compression Load Cell

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 IIIL, 10000 divisions
- Built-in surge protection tubes (GDTs)
- Current calibration output (SC) ensures easy and accurate parallel connection of multiple load cells

OPTIONAL FEATURE

- Digital version available (model DSC)

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.

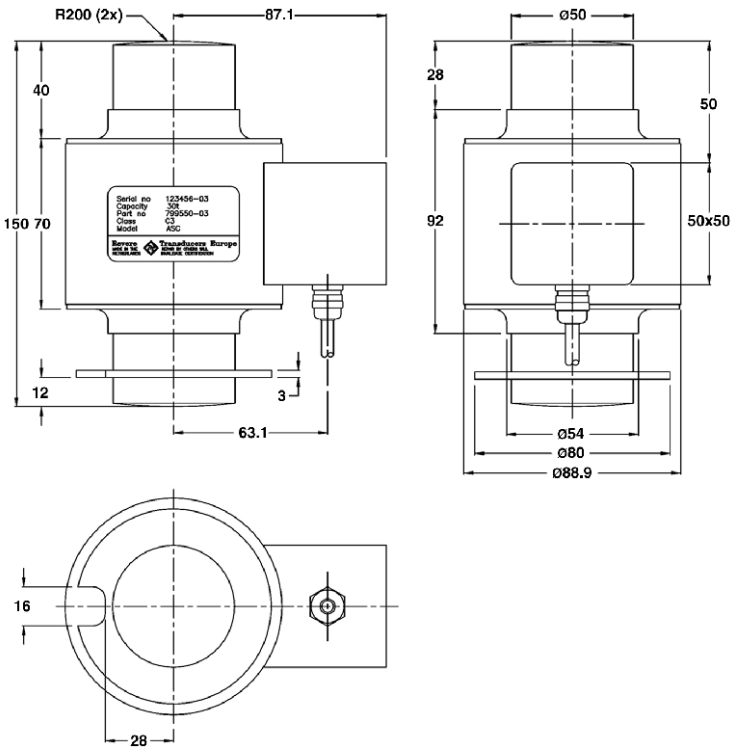
The welded construction and built-in surge protection ensure that this product can be used successfully in harsh environments.

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

APPLICATIONS

- Weighbridges
- Silo hopper weighing

OUTLINE DIMENSIONS



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.

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SPECIFICATIONS

PARAMETER	VALUE				UNIT
Standard capacities (E_{max})	30, 40, 50				t
Accuracy class according to OIML R-60	NTEP IIIL	Non-Approved	C3	C6	
Max. no. of verfication 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				±mV/V
Zero balance	1.0				±% FSO
Combined error	0.0200	0.05000	0.0230	0.0120	±% FSO
Non-repeatability	0.0100	0.0200	0.0100	0.018	±% FSO
Minimum dead load output return	0.0250	0.0500	0.0167	0.008	±% FSO
Creep error (30 minutes)		0.0600	0.0245	0.0120	±% FSO
Creep error (20 - 30 minutes)	0.030	0.0200	0.0053	0.0026	±% FSO
Temp. effect on min. dead load output	(0.001)	0.0250	0.0117	0.0058	±% FSO/5°C (/°F)
Temp. effect on min. dead load output, type MR			0.0047	0.0023	±% FSO/5°C
Temperature effect on sensitivity	(0.0008)	0.0250	0.0088	0.0045	±% FSO/5°C (/°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±35				Ω
Output resistance	700±35				Ω
Insulation resistance	≥5000				MΩ
Compensated temperature range	-10 to +40				°C
Operating temperature range	-40 to +80				°C
Storage temperature range	-40 to +90				°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.

Disclaimer

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