Ring Torsion Load Cell - Model RLC - Revere

Features

Capacity range: 250 kg to 60 t Low profile, stainless steel construction

Hermetically sealed, IP66 and IP68; for 250 kg, 5 t and 10 t IP69k is available

Meets OIML R-60 and NTEP 6000d

Outputs are matched to ensure easy and accurate parallel connection of multiple load cells

ATEX certified versions are available for use in potentially explosive atmospheres Multi-interval and multi-range versions are available

Applications

Platform scales

Belt scales

Silo hopper weighing

Description

The RLC is a low profile, high performance stainless steel ring torsion type load cell $% \left(1\right) =\left(1\right) \left(1\right) \left$

The fully welded construction and glass-to-metal cable-entry ensure that this product can be used successfully in harsh environments found in the food, chemical and allied process industries

This product is suitable for small and medium platform scales, hoppers and process weighing

This product meets the stringent Weights and Measures requirements throughout Europe and USA



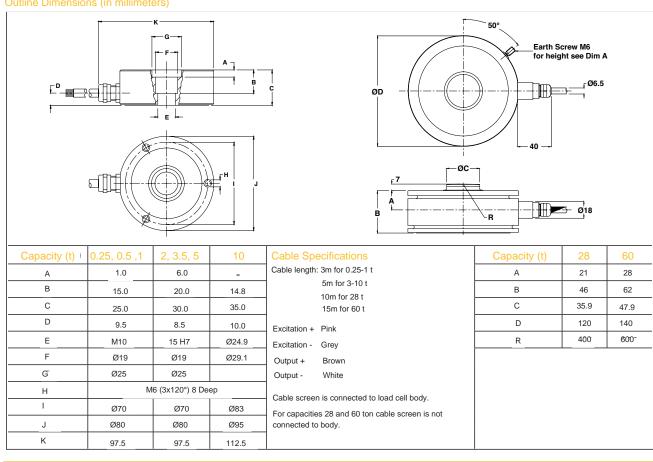












Specifications

Parameter	Value				Unit
Standard capacities (Emax)		0.25, 0.5, 1, 2, 3.5, 5, 10, 28, 60			
Accuracy class according to OIML	NTEP IIIL	D3	C3 (*3)	C6 (*2)	
Maximum no. of verification intervals (nlc)	10000		3000	6000	
Minimum verification interval			Emax/10000	Emax/15000	
Maximum verification interval type MR			Emax/20000 (*1)	Emax/28000	
ated output (=S)	2 (1.75 for 0.25 t, 2.05 for 10 t)				mV/V
Output accuracy for multiple LC systems		0.01			
Zero balance		1.0			
Combined error	0.0200	0.0300	0.0230	0.0115	±% FSO
Creep error (30 minutes)			0.0245	0.0123	±% FSO
Femperature effect on zero	(0.0010)	(0.0010)	0.0070	0.0045	±% FSO/5°C (/°F)
emperature effect on sensitivity (output)	(0.0008)	(0.0008)	0.0050	0.0025	±% FSO/5°C (/°F)
/linimum dead load		0			
Maximum safe overload		150			
Iltimate overload		300			% E max
Maximum safe side load		100% up to 10 t 50% for 28 & 60 t			
Deflection at Emax		0.12–0.20			
Excitation voltage		5 to 15			
Maximum excitation voltage		30			
Input resistance	1110±50 (1100±50 for 0.25 t and 10 t) 1075±100 for 28 t 1350±100 for 60 t				Ω
Output resistance	1025±25 (1025±50 for 0.25 t and 10 t) 930±0.5 for 28 t 1175±0.5 for 60 t				Ω
nsulation resistance		≥5000 (20 for 28 and 60 t)			
Compensated temperature range		-10 to +40			
Operating temperature range		-30 to +70			
Storage temperature range		-50 to +80			
Element material (DIN)		Stainless steel 1.4542			
Sealing (DIN 40.050 EN60.529)	IP66	IP66 and IP68; IP69K available for 250 kg, 5 t and 10 t			
Recommended torque on fixation bolts	12 to 14				N*m
ATEX opt. for potent explosive atmospheres	II2G	II2G EEx ib IIC T4/T6, II2D, IIID T70 II3G nA II T4/T6			

^(*1) Capacities of 28 and 60 ton Emax/15,000 approved to OIML C3 only.

(*3) The following accuracy classes are available (from 0.5 t to 10 t): C3Ml6 and C3M17.5. Maximum dead load output return is 1/2 Emax/7500 respectively.

FSO - Full Scale Output

All specifications subject to change without notice.

 $^{(^*2)\ 250\} kg\ and\ 10\ t\ capacities\ are\ approved\ OIML\ C3\ only.\ Maximum\ application\ range\ from\ 0.5\ t\ is\ 0.75\ Emax.$