

Celtron • Revere • Sensortronics • Tedea-Huntleigh

Model RLC

Revere

Ring Torsion Load Cell

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

APPLICATIONS

- Platform scales
- · Belt scales
- Silo hopper weighing

DESCRIPTION

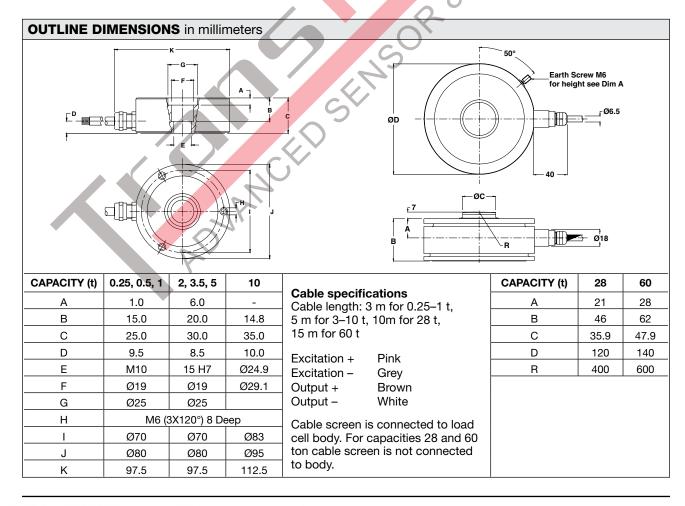
The RLC is a low profile, high performance stainless steel ring torsion type load cell.



The fully welded constuction and glass-to-metal cableentry 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.



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VPGTransducers

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Ring Torsion Load Cell

SPECIFICATIONS					
PARAMETER	VALUE				UNIT
Standard capacities (E _{max})	0.25, 0.5, 1, 2, 3.5, 5, 10, 28, 60				t
Accuracy class according to OIML	NTEP IIIL	D3	C3 ⁽³⁾	C6 ⁽²⁾	
Maximum no. of verfication intervals (nlc)	10000		3000	6000	
Minimum verification interval			Emax/10000	Emax/15000	
Minimum verification interval type MR			Emax/20000 ⁽¹⁾	Emax/28000	
Rated output (=S)	2 (1.75 for 0.25 t, 2.05 for 10 t)				mV/V
Output accuracy for multiple LC systems	0.01				±% mV/V
Zero balance	1.0				±% FSO
Combined error	0.0200	0.0300	0.0230	0.0115	±% FSO
Creep error (30 minutes)			0.0245	0.0123	±% FSO
Temperature effect on zero	(0.0010)	(0.0010)	0.0070	0.0045	±% FSO/5°C (/°F)
Temperature effect on sensitivity (output)	(0.0008)	(0.0008)	0.0050	0.0025	±% FSO/5°C (/°F)
Minimum dead load	0				% E _{max}
Maximum safe overload	150				% E _{max}
Ultimate overload	300				% E _{max}
Maximum safe side load	100% up to 10 t 50% for 28 & 60 t				% E _{max}
Deflection at Emax	0.12-0.20				mm
Excitation voltage	5 to 15				V
Maximum excitation voltage	30				V
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
Insulation resistance	≥5000 (20 for 28 and 60 t)				ΜΩ
Compensated temperature range	-10 to +40				°C
Operating temperature range	-30 to +70				°C
Storage temperature range	-50 to +80				°C
Element material (DIN)	Stainless steel 1.4542				
Sealing (DIN 40.050 / EN60.529)	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 atmo- spheres	II2G EEx ib IIC T4/T6, II2D, IIID T70 II3G nA II T4/T6				

⁽¹⁾ Capacities of 28 and 60 ton E_{max}/15,000 approved to OIML C3 only

⁽²⁾ 250 kg and 10 t capacities are approved to OIML C3 only. Maximum application range for 0.5 t is 0.75*E_{max}.

⁽³⁾ The following accuracy classes are available (from 0.5 t to 10 t): C3MI6 and C3MI7.5. Minimum dead load output return is $\frac{1}{2} E_{max}/6000$ and $\frac{1}{2} E_{max}/7500$ respectively

FSO-Full Scale Output

All specifications subject to change without notice.



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