



Revere

# **Ring Torsion Load Cell**

#### FEATURES

- Capacity range: 250 kg to 60 ton
- Low profile, stainless steel construction
- Hermetically sealed, IP66 and IP68
- 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

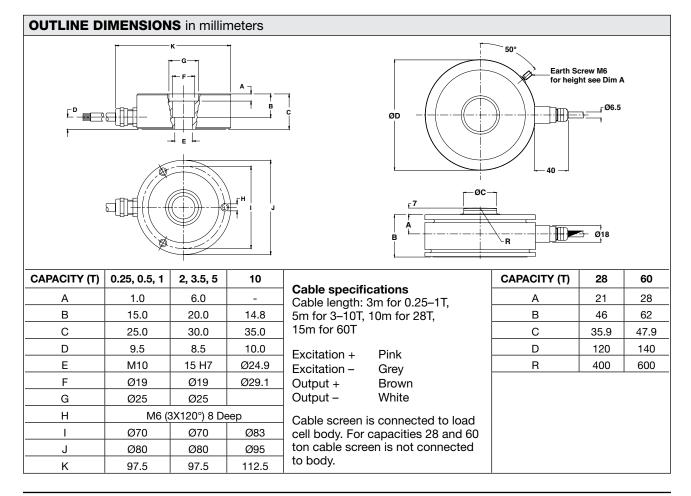
The RLC is a low profile, high performance stainless steel ring torsion type load cell.



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.



**Model RLC** 

Revere



### Ring Torsion Load Cell

SPECIFICATIONS					
PARAMETER	VALUE   0.25, 0.5, 1, 2, 3.5, 5, 10, 28, 60				UNIT
Standard capacities (E <sub>max</sub> )					ton
Accuracy class according to OIML	NTEP IIIL	D3	C3 <sup>(3)</sup>	C6 <sup>(2)</sup>	
Maximum no. of verfication intervals (nlc)	10000		3000	6000	
Ainimum verification interval			Emax/10000	Emax/15000	
Ainimum verification interval type MR			Emax/20000 <sup>(1)</sup>	Emax/28000	
Rated output (=S)	2 (1.75 for 0.25T, 2.05 for 10T)				mV/V
Dutput 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
emperature 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				% Emax
Aaximum safe overload	150				% Emax
JItimate overload	300				% E <sub>max</sub>
Aaximum safe side load	100% up to 10 ton 50% for 28 & 60 ton				% E <sub>max</sub>
Deflection at E <sub>max</sub>	0.12–0.20				mm
Excitation voltage	5 to 15				V
Aaximum excitation voltage	30				V
nput resistance	1110±50 (1100±50 for 0.25T and 10T) 1075±100 for 28T 1350±100 for 60T				Ω
Dutput resistance	1025±25 (1025±50 for 0.25T and 10T) 930±0.5 for 28T 1175±0.5 for 60T				Ω
nsulation resistance	≥5000 (20 for 28 and 60T)				MΩ
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				
Recommended torque on fixation bolts	12 to 14				N*m
TEX opt. for potent. explosive atmospheres	II2G EEx ib IIC T4/T6, II2D, IIID T70 II3G nA II T4/T6				

 $^{\scriptscriptstyle (1)}$  Capacities of 28 and 60 ton Emax/15,000 approved to OIML C3 only

<sup>(2)</sup> 250 kg and 10 ton capacities are approved to OIML C3 only. Maximum application range for 0.5T is 0.75\*E<sub>max</sub>.

 $^{(3)}$  The following accuracy classes are available (from 0.5T to 10T): 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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