

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



- Platform scales
- Belt scales
- Silo hopper weighing

DESCRIPTION

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







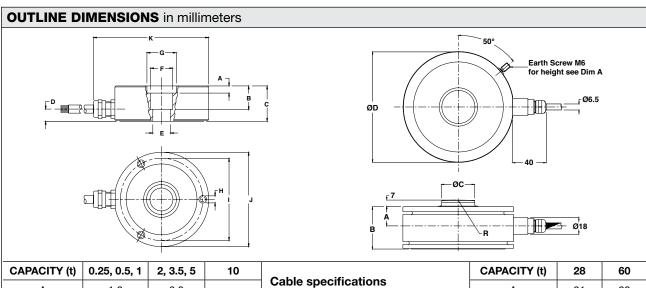




The fully welded constuction and glass-to-metal cableentry ensure that this product can be used successfully in harsh environments found in the food, chemical and allied process industries.

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.



CAPACITY (t)	0.25, 0.5, 1	2, 3.5, 5	10		
Α	1.0	6.0	-		
В	15.0	20.0	14.8		
С	25.0	30.0	35.0		
D	9.5	8.5	10.0		
E	M10	15 H7	Ø24.9		
F	Ø19	Ø19	Ø29.1		
G	Ø25	Ø25			
Н	M6 (3X120°) 8 Deep				
I	Ø70	Ø70	Ø83		
J	Ø80 Ø80		Ø95		
К	97.5	97.5	112.5		

Cable specifications
Cable length: 3 m for 0.25–1 t,
5 m for 3–10 t, 10m for 28 t,
15 m for 60 t

Excitation + Pink
Excitation - Grey
Output + Brown
Output - White

Cable screen is connected to load cell body. For capacities 28 and 60 ton cable screen is not connected to body.

CAPACITY (t)	28	60	
Α	21	28	
В	46	62	
С	35.9	47.9	
D	120	140	
R	400	600	



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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		% E _{max}			
Deflection at E _{max}		mm			
Excitation voltage	5 to 15				V
Maximum excitation voltage		V			
Input resistance	11	Ω			
Output resistance	10	Ω			
Insulation resistance		MΩ			
Compensated temperature range		°C			
Operating temperature range		°C			
Storage temperature range	-50 to +80				°C
Element material (DIN)	Stainless steel 1.4542				
Sealing (DIN 40.050 / EN60.529)	IP66 and I				
Recommended torque on fixation bolts	12 to 14				N*m
ATEX opt. for potent. explosive atmospheres	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

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FSO-Full Scale Output

All specifications subject to change without notice.

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⁽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}.

The following accuracy classes are available (from 0.5 t to 10 t): C3Ml6 and C3Ml7.5. Minimum dead load output return is $\frac{1}{2}$ E_{max}/6000 and $\frac{1}{2}$ E_{max}/7500 respectively



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