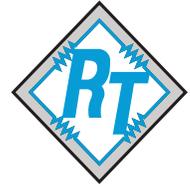
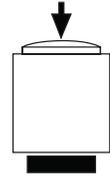


Model **CSP-M** Compression Load Cell

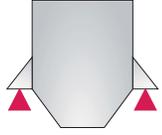


APPROVALS

	C4 $n_{lc} \leq 4000$ $Y \leq 17500$ $Z \leq 7500$
	B10 $n_{lc} \leq 10000$
	II2G EEx ib IIC T6/T4 or II1D T70°C II3G EEx nA II T6/T4 or II3D T70°C
	Factory Mutual System



APPLICATIONS

	
Weighbridges	Silo/Hopper Weighing

DESCRIPTION

The CSP-M is a multi-column, low profile, stainless steel compression load cell. The unique four column design offers excellent insensitivity to eccentric loads whilst maintaining accuracy.

This product is, without doubt, one of the most successful compression cells ever produced and is suitable for use in road and rail weighbridges and process weighing applications.

The fully leak tested welded construction, advanced cable entry and built-in surge protection tubes ensure that this product can be used successfully in harsh environments.

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

FEATURES

- Low profile, multi column stainless steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, 4000d
- Multi-interval and multiple range versions available
- Built-in surge protection tubes (GDTs)
- ATEX certified versions are available for use in potentially explosive atmospheres
- Current calibration output (SC version) ensures easy and accurate parallel connection of multiple load cells
- Digital version available (model SCC)
- Capacities: **10 → 100 t**

CSP-M SPECIFICATIONS

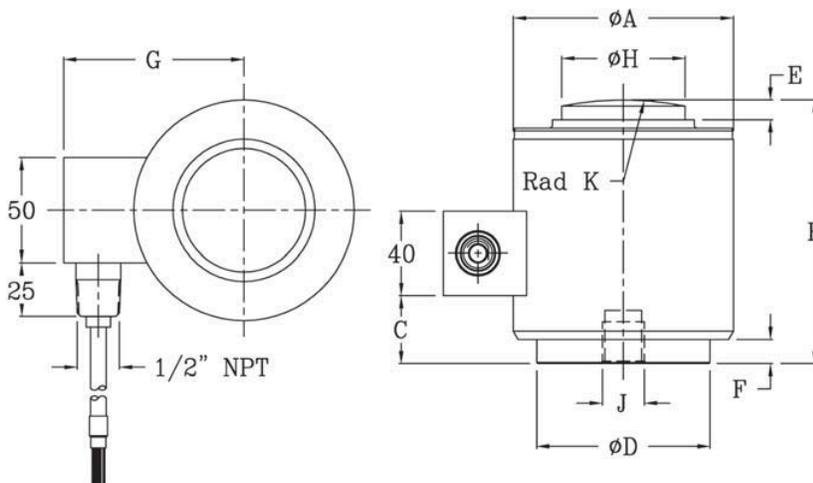
PARAMETER	VALUE					UNIT
Standard Capacities (E_{max})	10, 25, 40, 60, 100					t
Accuracy Class According to OIML R-60 / NTEP	Non-Approved	NTEP III L	C3	C3MI7.53**	C4	
Max. Number of Verification Intervals (n_{ic})		10000	3000	3000	4000	
Minimum Verification Interval ($V_{min}=E_{max}/Y$)		--	$E_{max}/12500$	$E_{max}/12500$	$E_{max}/12500$	
Minimum Verification Interval type MR		--	$E_{max}/17500$	$E_{max}/17500$	$E_{max}/17500$	
Minimum Dead Load Output Return (DR)		--	--	$E_{max}/7500$	--	
Combined Error	0.0500	0.0200	0.0200	0.0200	0.0170	±% FSO
Non-Repeatability	0.0200	0.0100	0.0100	0.0100	0.0090	±% FSO
Minimum Dead Load Output Return*	0.0500	0.0250	0.0167	0.0067	0.0125	±% applied load
Creep Error (30 Minutes)*	0.0600	0.0250	0.0245	0.0245	0.0184	±% applied load
Creep Error (20-30 Minutes)*	0.0200	0.0030	0.0053	0.0053	0.0039	±% applied load
Temp. Effect on Min. Dead Load Output	0.0250	(0.0010)	0.0056	0.0056	0.0056	±% FSO/5°C
Temp. Effect on Min. Dead Load Output MR			0.0040	0.0040	0.0040	±% FSO/5°C
Temperature Effect on Sensitivity	0.0250	(0.0008)	0.0050	0.0050	0.0035	±% applied load/5°C
Minimum Dead Load			0			% E_{max}
Maximum Safe Over load			150			% E_{max}
Ultimate Over Load			400			% E_{max}
Maximum Safe Side load			10			% E_{max}
Deflection at E_{max}			0.36 max.			mm
Excitation Voltage			5 to 20			V
Maximum Excitation Voltage			25			V
Rated Output (=S)			2			mV/ V
Tolerance on Rated Output			0.02			±mV/ V
Zero Balance			1.0			±% FSO
Input Resistance			450 ± 4.5			Ω
Output Resistance			480 ± 4.8			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 (DIN 1.4542 / EN 60.529)			Stainless Steel 1.4542			
Sealing (DIN 40.050)			IP66 and IP68			
SC-Version (Current Calibration)			Standard			

* Applies for the temperature range -10 to +40 °C

FSO: Full Scale Output

** Maximum application range $0.8 \times E_{max}$

OUTLINE DIMENSIONS



Capacity (t)	10,25 t	40,60 t	100 t
A	73.0	105.0	152.4
B	82.5	127.0	184.2
C	12.0	34.0	72.3
D	58.0	82.5	123.8
E	6.5	8.0	23.6
F	1.8	11.0	21.8
G	64.0	87.0	108.2
H	31.8	58.7	79.2
J	M12x1.75 (11 Deep)	M20x2.5 (20 Deep)	M20x2.5 (20 Deep)
K Rad	152.0	152.0	432.0

Note: Dimensions in millimeters

Cable specifications:

Cable length: 3m
 Excitation + Red
 Excitation - Black
 Output + Green
 Output - White
 Shield Transparent

Cable screen is not connected to load cell body. Performance may be affected if load cell cables are shortened.

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