

Type STL Load Cell



Short Description



- Nickel plated alloy steel IP67 "S" type load cell
- Tension and compression applications
- Suitable for hanging, hopper and other weighing Devices
- Also available in imperial capacities and dimensions



Test certificate no. TC7868 Revision 1
C of C no R60/2000-NL1-12.52



Certificate no. 06-099A1

Available Models

P/N	Capacity	Accuracy	Full Article Description
72208100	10kg	C3 Excluded from OIML	STL-C3-10kg-3B
72208101	15kg	C3 Excluded from OIML	STL-C3-15kg-3B
72208102	20kg	C3 Excluded from OIML	STL-C3-20kg-3B
72208103	25kg	C3 Excluded from OIML	STL-C3-25kg-3B
72208104	50kg	C3/C4	STL-C3-50kg-3B
72208105	75kg	C3/C4	STL-C3-75kg-3B
72208106	100kg	C3/C4	STL-C3-100kg-3B
72208107	150kg	C3/C4	STL-C3-150kg-3B
72208108	200kg	C3/C4	STL-C3-200kg-3B
72208109	250kg	C3/C4	STL-C3-250kg-3B
722081010	300kg	C3/C4	STL-C3-300kg-3B
722081011	500kg	C3/C4	STL-C3-500kg-3B
722081012	750kg	C3/C4	STL-C3-750kg-3B
722081013	1t	C3/C4	STL-C3-1t-3B
722081014	1.5t	C3/C4	STL-C3-1.5t-3B
722081015	2t	C3/C4	STL-C3-2t-3B
722081016	2.5t	C3/C4	STL-C3-2.5t-3B
722081017	3t	C3 Excluded from OIML	STL-C3-3t-3B
722081018	5t	C3 Excluded from OIML	STL-C3-5t-3B
722081019	7.5t	C3 Excluded from OIML	STL-C3-7.5t-3B
722081020	10t	C3 Excluded from OIML	STL-C3-10t-3B
722081021-22-23	15t,20t,30t	C3 Excluded from OIML	STL-C3-15t,20t,30t-3B

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Technical Specifications STL

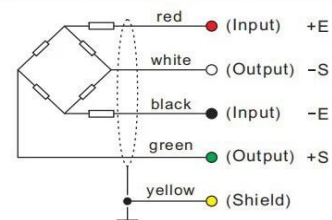
Accuracy Class		OIML R60 C3	OIML R60 C4	C3
Output Sensitivity (= FS)	mV/V	2.0 ± 0.2 / 3.0 ± 0.2		
Maximum Capacity (Emax)	kg	10,15,20,25,50,75,100,150,200,250,300,500,750,1t 1.5t,2t,2.5t,3t,5t,7.5t,10t,15t,20t,30t		
Max. Number of Load Cell Intervals	nLC	3000	4000	3000
Ratio of min. LC Verification Interval	Y = Emax / vmin	10000	15000	10000
Combined Error	%FS	≤± 0.020	≤± 0.018	≤± 0.020
Minimum dead load	Of Emax	0%		
Safe overload	of Emax	150 %		
Ultimate overload	of Emax	300 %		
Zero balance	of FS	< ± 2.0 %		
Excitation, recommended voltage	V	5 ~ 12		
Excitation maximum	V	18		
Input resistance	Ω	385 ± 20		
Output resistance	Ω	350 ± 3.5		
Insulation resistance	MΩ	≥5000 (at 50VDC)		
Compensated temperature	°C	-10 ~ +40		
Operating temperature	°C	-35 ~ +65		
Storage temperature	°C	-40 ~ +70		
Element material		Nickel plated alloy steel		
Ingress Protection (acc. to EN 60529)		IP67		
Recommended torque on fixation bolts	Nm	M6,M8:25 M10: 50 M12:75 M20:450 M33:750 M42:1450		
ATEX classification (optional)		II1G Ex ia II1C T4 II1D Ex iaD 20 T73°C II3G nL IIC T4		

Wiring

Features:

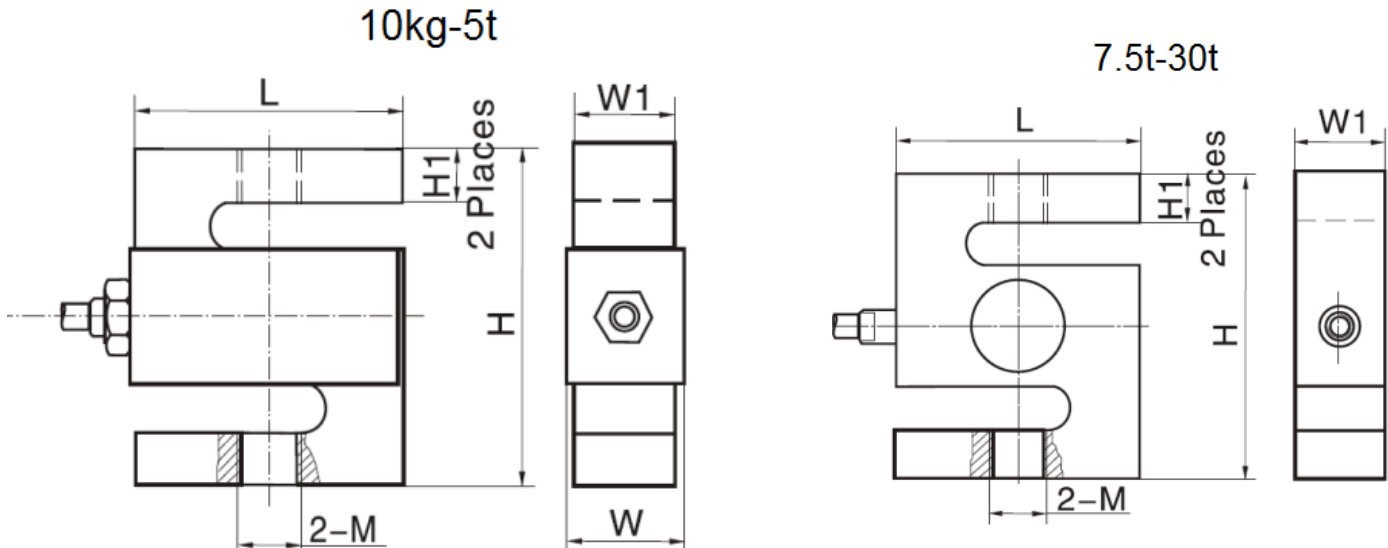
- Shielded, 4 conductor cable.
- Cable diameter: Ø5.3mm.
- Standard cable length for 25kg – 1.5t: 3m and for 2t – 30t: 6m
- Shield connected to element.
- Cable jacket in PVC.

Mode of Connection



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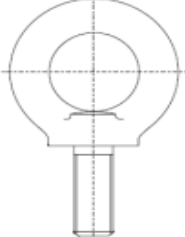

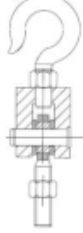
Dimensions in mm



Dimension Capacity	L	H	W1	W	H1	M
10-50kg	50.8	76.2	12.7	14.5	15.7	M6,M8
100-150kg	50.8	76.2	19.0	20.8	15.3	M10 x 1.5
200-750kg	50.8	76.2	19.0	20.8	13.6	M12 x 1.75
1-1.5t	50.8	76.2	25.4	27.2	12.1	M12 x 1.75
2-5t	76.2	101.6	25.4	27.2	20	M20 x 1.5
7.5-10t	125	175	50	-	40.2	M33 x 3
15-20t	160	200	60	-	51	M42x 3
30t	190	230	80	-	57.5	M42 x 3

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Available accessories

<p>HL-3-001-25kg-5t hook</p> <ul style="list-style-type: none"> • Alloy Steel • Suitable for hybrid scales, crane scales, packaging scales and hopper scales 	
<p>HL-3-002-25kg-5t eye</p> <ul style="list-style-type: none"> • Alloy Steel • Suitable for hybrid scales, crane scales, packaging scales and hopper scales 	
<p>HL-3-003-25kg-5t rod end</p> <ul style="list-style-type: none"> • Alloy Steel • Suitable for hybrid scales, crane scales, packaging scales, hopper scales and other electronic weighing devices. 	
<p>HL-3-004-25kg-5t hook assembly</p> <ul style="list-style-type: none"> • Alloy Steel • Suitable for hybrid scales, crane scales, packaging scales, hopper scales and other electronic weighing devices. 	
<p>HL-3-005-25kg-5t eye assembly</p> <ul style="list-style-type: none"> • Alloy Steel • Suitable for hybrid scales, crane scales, packaging scales, hopper scales and other electronic weighing devices. 	