

Type H3G 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. TC7866 Revision 0
C of C no R60/2000-CNI-00.01



Certificate no. 06-099A1

Available models

	Accuracy	Full article description
50kg	C3	H3G-C3-50kg-6B
100kg	C3	H3G-C3-100kg-6B
250kg	C3	H3G-C3-250kg-6B
500kg	C3 Excluded from OIML	H3G-C3-500kg-6B
1t	C3 Excluded from OIML	H3G-C3-1t-6B
2.5t	C3 Excluded from OIML	H3G-C3-2.5t-6B
5t	C3 Excluded from OIML	H3G-C3-5t-6B
7.5t	C3 Excluded from OIML	H3G-C3-7.5t-6B

Specifications and dimensions are subject to change without notice and do not constitute any liability whatsoever.

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Detailed specifications H3G

Accuracy class		OIML R60 C3	C3
Output sensitivity (= FS)	mV/V	3.0 ± 0.008	
Maximum capacity (E_{max})	t	0.05, 0.1, 0.25	0.5, 1, 2.5, 5, 7.5
Max.number of load cell intervals	n_{LC}	3000	
Ratio of min. LC verification interval	$Y = E_{max} / v_{min}$	15000	14000
Combined Error	%FS	$\leq \pm 0.020$	
Minimum dead load	Of E_{max}	0%	
Safe overload	of E_{max}	150 %	
Ultimate overload	of E_{max}	300 %	
Zero balance	of FS	$< \pm 1.0 \%$	
Excitation, recommended voltage	V	5 ~ 12	
Excitation maximum	V	18	
Input resistance	Ω	430 ± 60	
Output resistance	Ω	351 ± 2.0	
Insulation resistance	M Ω	≥ 5000 (at 50VDC)	
Compensated temperature	$^{\circ}\text{C}$	$-10 \sim +40$	
Operating temperature	$^{\circ}\text{C}$	$-35 \sim +65$	
Storage temperature	$^{\circ}\text{C}$	$-40 \sim +70$	
Element material		Nickel plated alloy steel	
Ingress Protection (acc. to EN 60529)		IP67	
Recommended torque on fixation	Nm	M8:25	M12:75 M20:450 M24:750
ATEX classification (optional)		II1G Ex ia II1C T4	II1D Ex iaD 20 T73 $^{\circ}\text{C}$ II3G nL IIC T4

Wiring

Wiring:

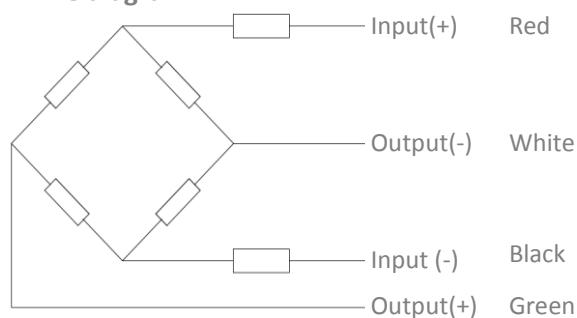
Shielded, 4 conductor cable.

Cable diameter: $\varnothing 5\text{mm}$.

Standard cable length: 6m.

Shield not connected to element.

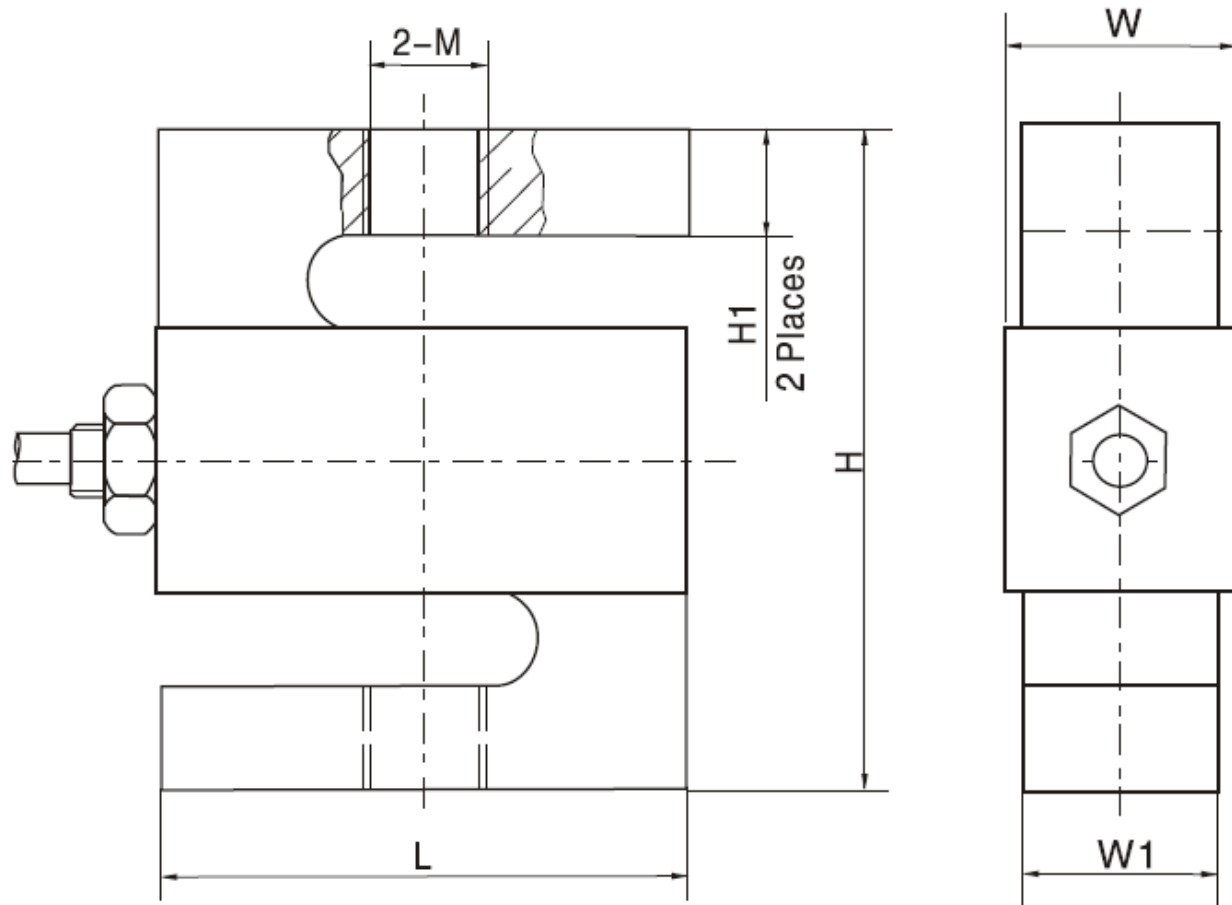
4-wire diagram



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Dimensions in mm

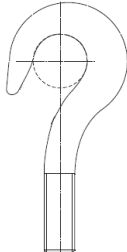
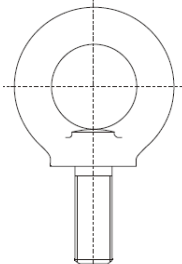
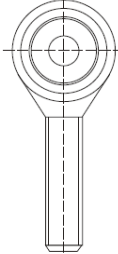
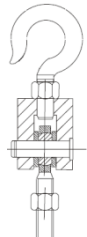
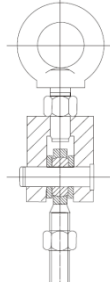


Dimension Capacity	L	H	H1	W1	W	H1	M
50-100kg	50.8	63.5	10.16	12.7	16.5	10.2	M8 x 1.25
250-500kg	50.8	63.5	10.16	19.05	22.8	10.2	M12 x 1.75
1t	50.8	63.5	10.16	25.4	29.2	10.2	M12 x 1.75
2.5t	76.2	101.6	15.2	25.4	29.2	15.2	M20 x 1.5
5t	76.2	101.6	20	25.4	29.2	20	M20 x 1.5
7.5t	101.6	139.7	30	31.75	35.5	31	M24 x 2

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Available accessories

HL-3-001-25kg-5t hook • Alloy Steel • Suitable for hybrid scales, crane scales, packaging scales and hopper scales	
HL-3-002-25kg-5t eye • Alloy Steel • Suitable for hybrid scales, crane scales, packaging scales and hopper scales	
HL-3-003-25kg-5t rod end • Alloy Steel • Suitable for hybrid scales, crane scales, packaging scales, hopper scales and other electronic weighing devices.	
HL-3-004-25kg-5t hook assembly • Alloy Steel • Suitable for hybrid scales, crane scales, packaging scales, hopper scales and other electronic weighing devices.	
HL-3-005-25kg-5t eye assembly • Alloy Steel • Suitable for hybrid scales, crane scales, packaging scales, hopper scales and other electronic weighing devices.	

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