H3G

- 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



Certificate no. 06–099A1

test certificate no. TC7866 Revision 0 C of C no R60/2000–NL1–10.30

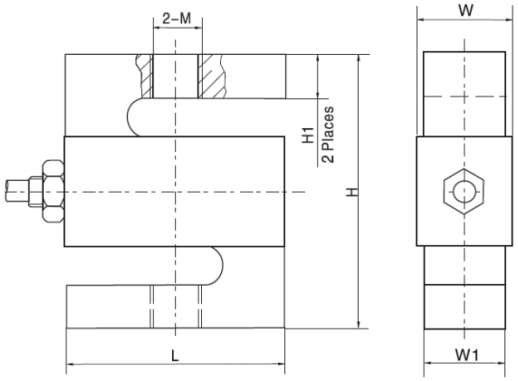
Available models

xxkg	C3/A5S/B10S	H3G–xx–xxkg–6B
xxt	C3/A5S/B10S	H3G–xx–xxt–6B
xxlb	A5S/B10S	H3G–xx–xx–6YB
xxklb	A5S/B10S	H3G–xx–xxK–6YB
20klb	C3	H3G–C3–20K–6YT
OIML Certificate (50Kg–250kg C3 Class) NTEP A5S/B10S Certificate 50kg–7.5t(50lb–15klb)		

Specification

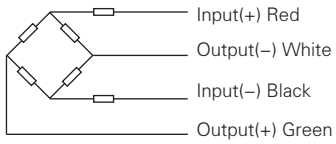
Maximum capacity (E_{max})	t	0.05/0.1/0.2/0.25/0.3/0.5/1/2.5/5/7.5		
	lb	250/500/750/1K/1.5K/2K/2.5K/3K/5K/7.5K/10K/15K/20K		
Accuracy class		C3	A5S	B10S
Approvals		OIML R60 C3	III5000 Single Pack	IIIL10000 Single Pack
Maximum number of load cell intervals (nLC)		3000	5000	10000
Ratio of minimum LC verification interval Y = E_{max} / v_{min}		10000	15000	10000
Combined error	%FS	± 0.020	± 0.018	± 0.035
Creep	%FS/30min	± 0.016	± 0.012	± 0.030
Temperature effect on sensitivity	%FS/10℃	± 0.011	± 0.009	± 0.030
Temperature effect on zero	%FS/10℃	± 0.015	± 0.010	± 0.030
Output sensitivity (= FS)	mV/V	3.0 ± 0.008		
Input resistance	Ω	430 ± 60		
Output resistance	Ω	351 ± 2.0		
Insulation resistance	MΩ	⩾ 5000(50VDC)		
Zero balance	%FS	± 1.0		
Compensated temperature	℃	–10 ~ +40		
Operating temperature	℃	–35 ~ +70		
Excitation, recommended voltage	V	5 ~ 12(DC)		
Excitation maximum	V	18(DC)		
Safe overload	%FS	150		
Ultimate overload	%FS	300		
Ingress protection (according to EN 60529)		IP67		
Recommended torque on fixation	N.m	M8:25	M12:75 M20:450	M24:750
ATEX classification (optional)		II1G Ex ia II1C T4	II1D Ex iaD20 T73℃	II3G Ex nL II C T4

Dimensions in mm



Capacity \ Dimension (mm)	L	H	W1	W	M	H1
50kg,100kg	50.8(2.0)	63.5(2.5)	12.7(0.5)	16.07(0.63)	M8	10.16(0.4)
50klb ~ 300lb					1/4–28UNF	
200kg~500kg	50.8(2.0)	63.5(2.5)	19.05(0.75)	22.43(0.88)	M12	
500lb~1.5klb					1/2–20UNF	
1t	50.8(2.0)	63.5(2.5)	25.4(1.0)	28.78(1.13)	M12	
2,2.5klb					1/2–20UNF	
2.5t	76.2(3.0)	101.6(4.0)	25.4(1.0)	28.78(1.13)	M20 x 1.5	15.2(0.6)
3klb					1/2–20UNF	
5t	76.2(3.0)	101.6(4.0)	25.4(1.0)	28.78(1.13)	M20 x 1.5	20(0.79)
5klb,10klb					3/4–16UNF	15.24(0.6)
7.5t	101.6(4.0)	139.7(5.5)	31.75(1.25)	35.13(1.38)	M24 x 2	30(1.18)
15klb					1–14UNS	31(1.22)
20klb	127(5.0)	177.8(7.0)	50.8(2.0)	54.2(2.13)	$1\frac{1}{4}$–12UNF	39.9(1.57)

Wiring

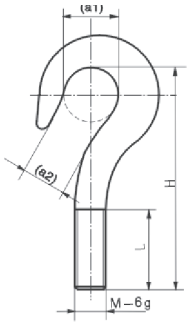


- Shielded, 4 conductor cable.
- Cable diameter: Φ5mm.
- Standard cable length: 6m.
- Shield not connected to element.

Accessories

HL-3-001



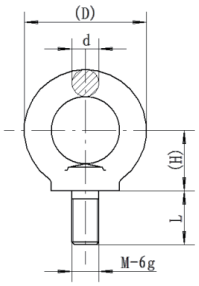


Capacity	Part number
50kg–100kg	HL–3–001–25/50kg
200kg–300kg	HL–3–001–200/300kg
500kg	HL–3–001–500/750kg
1t	HL–3–001–1/1.5t
2.5t	HL–3–001–2/3t
5t	HL–3–001–5t

Capacity	a1	a2	H	M×P×L	Lifting weight
50kg–100kg	25 (0.98)	20 (0.79)	97.5 (3.84)	M8×1.25×24	0.25t
200kg–300kg	28 (0.98)	22 (0.87)	106 (4.17)	M12×1.75×28	0.4t
500kg	34(1.34)	27 (1.06)	135.5 (5.33)	M12×1.75×28	0.8t
1t	40 (1.57)	32 (1.26)	152.5 (6.0)	M12×1.75×28	1.6t
2.5t	48 (1.89)	38 (1.5)	183 (7.2)	M20×1.5×35	3.2t
5t	56 (2.2)	45 (1.77)	221 (8.7)	M20×1.5×35	6.3t

HL-3-002



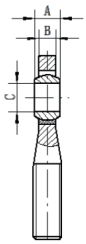


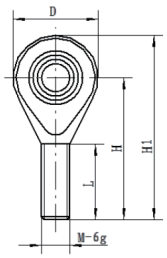
Capacity	Part number
50kg–100kg	HL–3–002–25/50kg
200kg–300kg	HL–3–002–200/300kg
500kg	HL–3–002–500/750kg
1t	HL–3–002–1/1.5t
2.5t	HL–3–002–2/3t
5t	HL–3–002–5t

Capacity	H	D	d	M×P×L	Lifting weight
50kg–100kg	18 (0.71)	36 (1.42)	9.1 (0.36)	M8×1.25×16	0.16t
200kg–300kg	26 (1.02)	52 (2.05)	13.1 (0.52)	M12×1.75×22	0.4t
500kg	31 (1.22)	62 (2.44)	15.2 (0.60)	M12×1.75×22	1.0t
1t	36 (1.42)	72 (2.83)	17.4 (0.69)	M12×1.75×22	1.6t
2.5t	53 (2.09)	104 (4.09)	25.7 (1.01)	M20×1.5×35	4.0t
5t	63 (2.48)	123 (4.84)	30 (1.18)	M20×1.5×35	6.3t

HL-3-003





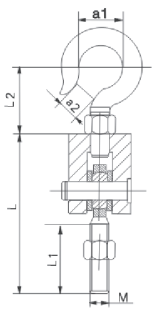


Capacity	Part number
50kg–100kg	HL–3–003–25/50kg
200kg–1.0t	HL–3–003–200kg/1.0t
2.5t	HL–3–003–2/3t
5t	HL–3–003–5t

Capacity	H	A	B	C	D	H1	M×P×L	Lifting weight
50kg–100kg	42 (1.65)	8 (0.31)	6.5 (0.26)	8 (0.31)	25 (0.98)	56 (2.20)	M8×1.25×21	0.55t
200kg–1.0t	54 (2.13)	10 (0.39)	8.5 (0.33)	12 (0.47)	35 (1.38)	73 (2.87)	M12×1.75×28	1.08t
2.5t	78 (3.07)	16 (0.63)	13.5 (0.53)	20 (0.79)	54 (2.13)	107 (4.21)	M20×1.5×43	3.0t
5t	89 (3.5)	22 (0.87)	20 (0.79)	30 (1.18)	75 (2.95)	128 (5.04)	M20×1.5×43	6.0t

HL-3-004





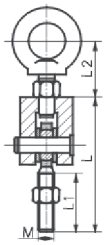
Capacity	Part number
50kg–100kg	HL–3–004–25/50kg
200kg–300kg	HL–3–004–200/300kg
500kg	HL–3–004–500kg
1t	HL–3–004–1t
2.5t	HL–3–004–2/3t
5t	HL–3–004–5t

Capacity	a1	a2	L	L1	L2	M×P	Lifting weight
50kg–100kg	25 (0.98)	20 (0.79)	77 (3.03)	21 (0.83)	65 (2.56)	M8×1.25	0.25t
200kg–300kg	28 (1.10)	22 (0.87)	89 (3.50)	28 (1.10)	77 (3.03)	M12×1.75	0.4t
500kg	34 (1.34)	27 (1.06)	89 (3.50)	28 (1.10)	103.5 (4.07)	M12×1.75	0.8t
1t	40 (1.57)	32 (1.26)	89 (3.50)	28 (1.10)	117.5 (4.63)	M12×1.75	1.08t
2.5t	48 (1.89)	38 (1.5)	133 (5.24)	43 (1.69)	134 (5.28)	M20×1.5	3.0t
5t	56 (2.20)	45 (1.77)	149 (5.87)	43 (1.69)	173 (6.81)	M20×1.5	6.0t

HL-3-005



Capacity	Part number
50kg–100kg	HL–3–005–25/50kg
200kg–300kg	HL–3–005–200/300kg
500kg	HL–3–005–500/750kg
1t	HL–3–005–1t
2.5t	HL–3–005–2/3t
5t	HL–3–005–5t



Capacity	L	L1	L2	M×P	Lifting weight
50kg–100kg	77 (3.03)	21 (0.83)	22 (0.87)	M8×1.25	0.16t
200kg–300kg	89 (3.50)	28 (1.10)	33 (1.3)	M12×1.75	0.4t
500kg	89 (3.50)	28 (1.10)	38 (1.5)	M12×1.75	1.0t
1t	89 (3.50)	28 (1.10)	43 (1.7)	M12×1.75	1.08t
2.5t	133 (5.24)	43 (1.69)	63 (2.48)	M20×1.5	3.0t
5t	149 (5.87)	43 (1.69)	78 (3.07)	M20×1.5	6.0t

Features : Matched with S type load cells,suitable for hybrid scales, crane scales, packaging scales, hopper scales, and other electronic weighing devices.