B3G



- Stainless 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
- OIML test certificate no. D09–06.07
- OIML C of C no. R60/2000–CN1–06.02
- NTEP certificate no. 06–099A1

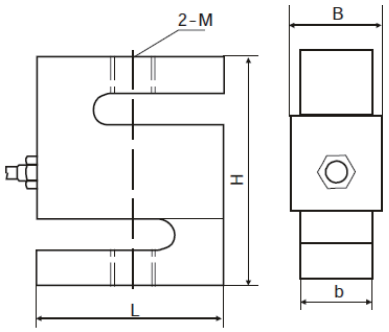
Available models

Capacity	Accuracy	Full article description
xxkg	C3/A5S/B10S	B3G–xx–xxkg–6B
xxt	C3/A5S/B10S	B3G–xx–xxt–6B
xxlb	A5S/B10S	B3G–xx–xx–6YB
xxklb	A5S/B10S	B3G–xx–xxK–6YB
20klb	C3	B3G–C3–20K–6YT
50kg–10t approved by OIML C3. 50kg–7.5t (50lb–15klb) approved by NTEP A5S/B10S.		

Specification

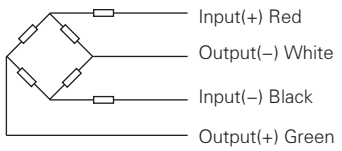
Accuracy class		C3	C4	A5S	B10S
Approvals		OIML R60 C3		III5000 Single Pack	IIIL10000 Single Pack
Output sensitivity (= FS)	mV/V	3.0 ± 0.008			
Maximum capacity (E_{max})	t	0.025/0.05/0.1/0.15/0.25/0.5/1/2.5/5/7.5/10			
	lb	50/75/100/150/200/250/300/500/750/1K/1.5K/2K/2.5K/3K/5K/7.5K/10K/15K/20K			
Maximum number of load cell intervals (nLC)		3000	4000	5000	10000
Ratio of minimum LC verification interval Y = E_{max} / v_{min}		10000	14000	15000	10000
Combined error	%FS	± 0.020			
Minimum dead load	kg	0			
Safe overload	%FS	150 %			
Ultimate overload	%FS	300 %			
Zero balance	%FS	± 1.0			
Excitation, recommended voltage	V	5 ~ 12(DC)			
Excitation maximum	V	18(DC)			
Input resistance	Ω	430 ± 60			
Output resistance	Ω	351 ± 2			
Insulation resistance	MΩ	⩾ 5000 (50VDC)			
Compensated temperature	℃	–10 ~+40			
Operating temperature	℃	–35 ~ +65			
Storage temperature	℃	–40 ~ +70			
Element material		Stainless steel			
Ingress protection (according to EN 60529)		IP67			
Recommended torque on fixation	N.m	M8:25	M12:75	M20:450	M24:750 M30:1450
ATEX classification (optional)		II1G Ex ia IIC T4		II1D Ex iaD 20 T73℃	II3G Ex nL IIC T4

Dimensions in mm



Capacity \ Dimension (mm)	L	H	W1	W	M	H1
25kg~100kg	50.8 (2.0)	60.96 (2.4)	11.68 (0.46)	15.06 (0.59)	M8	8.89 (0.35)
50klb ~ 300lb					1/4–28UNF	
150kg~500kg	50.8 (2.0)	60.96 (2.4)	18.03 (0.71)	21.4 (0.84)	M12	
500lb~1.5klb					1/2–20UNF	
1t	50.8 (2.0)	60.96 (2.4)	24.38 (0.96)	27.76 (1.09)	M12	
2,2.5klb					1/2–20UNF	
2.5t	76.2 (3.0)	99.06 (3.9)	24.38 (0.96)	27.76 (1.09)	M20 x 1.5	13.97 (0.55)
3klb					1/2–20UNF	
5t	74.68 (2.94)	99.06 (3.9)	30.74 (1.21)	34.12 (1.34)	M20 x 1.5	18.37 (0.72)
10klb					3/4–16UNF	15.75 (0.62)
7.5t	87.38 (3.44)	139.7 (5.5)	37.08 (1.46)	40.46 (1.59)	M24 x 2	27.5 (1.08)
15klb					1–14UNS	
10t	112.78 (4.44)	177.8 (7.0)	42.93 (1.69)	46.31 (1.82)	M30 x 2	39.9 (1.57)
20klb					12UNF	
5klb	76.2 (3.0)	99.06 (3.9)	24.38 (0.96)	27.76 (1.09)	3/4–16UNF	13.97 (0.55)

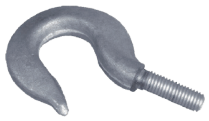
Wiring

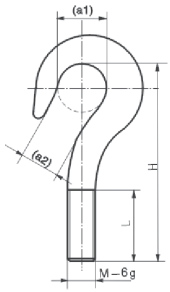


- Shielded, 4 conductor cable.
- Cable diameter: Φ5mm
- Standard cable length: 6m
- Shield not connected to element

Accessories

HL-3-001



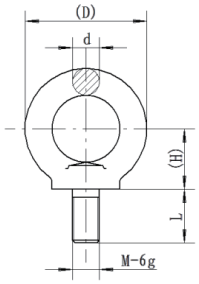


Capacity	Part number
50kg,100kg	HL-3-001-25/50kg
250kg	HL-3-001-200/300kg
500kg	HL-3-001-500/750kg
1t	HL-3-001-1/1.5t
2.5t	HL-3-001-2/3t
5t	HL-3-001-5t

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
250kg	28(1.10)	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(6.00)	M12×1.75×28	1.6t
2.5t	48(1.89)	38(1.50)	183(7.20)	M20×1.5×35	3.2t
5t	56(2.20)	45(1.77)	221(8.70)	M20×1.5×35	6.3t

HL-3-002



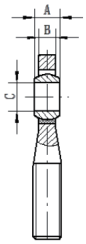


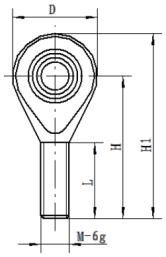
Capacity	Part number
25kg-100kg	HL-3-002-25/50kg
150kg-250kg	HL-3-002-200/300kg
500kg	HL-3-002-500/750kg
1t	HL-3-002-1/1.5t
2.5t	HL-3-002-2/3t
5t	HL-3-002-5t

Capacity	H	D	d	M×P×L	Lifting Weight
25kg-100kg	18 (0.71)	36 (1.42)	9.1 (0.36)	M8×1.25×16	0.16t
150kg-250kg	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





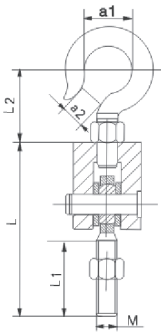


Capacity	Part number
25kg-100kg	HL-3-003-25/50kg
150kg-1.0t	HL-3-003-200kg/1.0t
2.5t	HL-3-003-2/3t
5t	HL-3-003-5t

Capacity	H	A	B	C	D	H1	M×L	Lifting weight
25kg-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
150kg-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





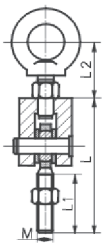
Capacity	Part number
25kg-100kg	HL-3-004-25/50kg
150kg-250kg	HL-3-004-200/300kg
500kg	HL-3-004-500/750kg
1t	HL-3-004-1t
2.5t	HL-3-004-2/3t
5t	HL-3-004-5t

Capacity	a1	a2	L	L1	L2	M×P	Lifting weight
25kg-100kg	25 (0.98)	20 (0.79)	77 (3.03)	21 (0.83)	65 (2.56)	M8×1.25	0.25t
150kg-250kg	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
25kg-100kg	HL-3-005-25/50kg
150kg-250kg	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
25kg-100kg	77 (3.03)	21 (0.83)	22 (0.87)	M8×1.25	0.16t
150kg-250kg	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.