H3F

- 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



Non OIML approved Certificate no. 06–099A1

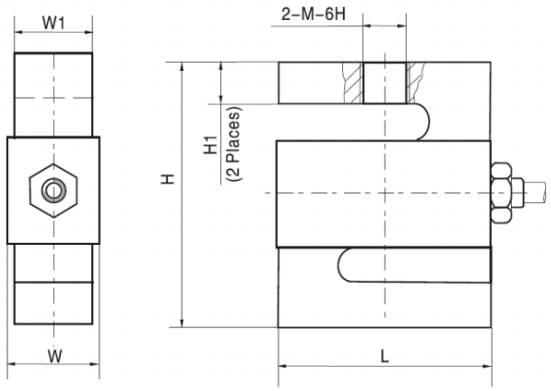
Available models

xxkg	C3/C4/A5S/B10S	H3F–xx–xxkg–6T
xxt	C3/C4/A5S/B10S	H3F–xx–xxt–6T
xxlb	A5S/B10S	H3F–xx–xx–6YT
xxklb	A5S/B10S	H3F–xx–xxK–6YT
20klb	C3	H3F–C3–20K–6YT
NTEP A5S/B10S Certificate 50kg–5t(200lb–15klb)		

Specification

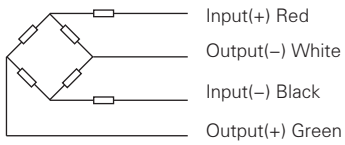
Accuracy class		C3	A5S	B10S
Output sensitivity (= FS)	mV/V	3.0 ± 0.008		
Maximum capacity (E_{max})	t	0.05/0.1/0.25/0.5/0.75/1/1.5/2/2.5/5		
	lb	200/250/300/500/750/1/1.5/2/2.5/3/5/7.5/10/15/20		
Maximum number of load cell intervals (nLC)		3000	III5000 Single Pack	IIIL10000 Single Pack
Ratio of minimum LC verification interval Y = E_{max} / vmin		10000	15000	10000
Combined error	%FS	± 0.020		
Minimum dead load	%FS	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	350 ± 3.5		
Output resistance	Ω	351 ± 2.0		
Insulation resistance	MΩ	⩾ 5000 (50VDC)		
Compensated temperature	℃	–10 ~+40		
Operating temperature	℃	–35 ~ +65		
Storage temperature	℃	–40 ~ +70		
Element material		Alloy steel		
Ingress protection (according to EN 60529)		IP67		
Recommended torque on fixation	N.m	M10: 50	M12:75	M18: 300
ATEX classification (optional)		II1G Ex ia IIC T4	II1D Ex iaD 20 T73℃	II3G Ex nL IIC T4

Dimensions in mm



Capacity \ Dimension (mm)	H	L	W1	W	H 1	M
50kg,100kg	76.2(3.0)	50.8(2.0)	19(0.75)	22.4(0.88)	9(0.35)	M10 × 1.5
250kg ~ 750kg						M12 × 1.75
1.0t,1.5t			25.4(1.0)	28.8(1.13)		
2.0t ~ 5.0t	108(4.25)	76.2(3.0)				M18 × 1.5
250lb	76.2(3.0)	50.8(2.0)	12.7(0.5)	16.1(0.63)	9(0.35)	M20 × 1.5
200lb ~ 300lb			19(0.75)	22.4(0.88)		
500lb ~ 1.5klb						M33 × 3
2klb ~ 3klb			25.4(1.0)	28.6(1.13)		
5klb ~ 10klb	108(4.25)	76.2(3.0)				3/4–16UNF
15klb	140(5.51)	100(3.94)	31.8(1.25)	35(1.38)	16.5(0.65)	1–14UNS
20klb	177.8(7.0)	125.5(4.94)	49.3(1.94)	54(2.13)	21.5(0.85)	5/4–12UNF

Wiring

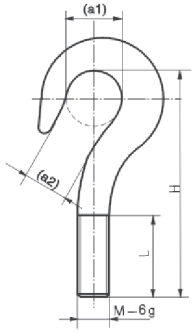


- Shielded, 4 conductor cable.
- Cable diameter: Φ5mm.
- Standard cable length: 6m.
- Shield not connected to element

Accessories

HL-3-001



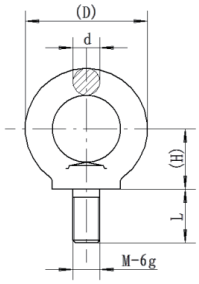


Capacity	Part number
50kg–100kg	HL–3–001–100/150kg
250kg	HL–3–001–200/300kg
500kg–750kg	HL–3–001–500/750kg
1t–1.5t	HL–3–001–1/1.5t

Capacity	a1	a2	H	M×P×L	Lifting weight
50kg–100kg	25 (0.98)	20 (0.79)	97.5 (3.84)	M10×1.5×26	0.25t
250kg	28 (0.98)	22 (0.87)	106 (4.17)	M12×1.75×28	0.4t
500kg–750kg	34 (1.34)	27 (1.06)	135.5 (5.33)	M12×1.75×28	0.8t
1t–1.5t	40 (1.57)	32 (1.26)	152.5 (6.0)	M12×1.75×28	1.6t

HL-3-002



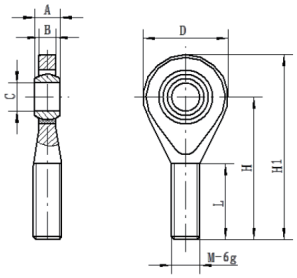


Capacity	Part number
50kg–100kg	HL–3–002–100/150kg
250kg	HL–3–002–200/300kg
500kg–750kg	HL–3–002–500/750kg
1t–1.5t	HL–3–002–1/1.5t

Capacity	H	D	d	M×P×L	Lifting weight
50kg–100kg	22 (0.87)	44 (1.73)	11.1 (0.44)	M10×1.5×20	0.25t
250kg	26 (1.02)	52 (2.05)	13.1 (0.52)	M12×1.75×22	0.4t
500kg–750kg	31 (1.22)	62 (2.44)	15.2 (0.60)	M12×1.75×22	1.0t
1t–1.5t	36 (1.42)	72 (2.83)	17.4 (0.69)	M12×1.75×22	1.6t

HL-3-003



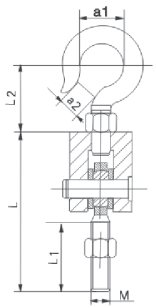


Capacity	Part number
50kg–100kg	HL–3–003–100/150kg
250kg–1.0t	HL–3–003–200kg/1.0t
1.5t	HL–3–003–1.5t

Capacity	H	A	B	C	D	H1	M×P×L	Lifting weight
50kg–100kg	48 (1.89)	9 (0.35)	7.5 (0.30)	10 (0.39)	30 (1.18)	65 (2.56)	M10×1.5×26	0.81t
250kg–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
1.5t	63 (2.48)	16 (0.63)	13.5 (0.53)	20 (0.79)	54 (2.13)	92 (3.62)	M12×1.75×28	3.0t

HL-3-004





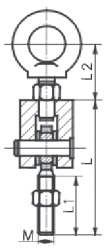
Capacity	Part number
50kg–100kg	HL–3–004–100/150kg
250kg	HL–3–004–200/300kg
500kg–750kg	HL–3–004–500/750kg
1t	HL–3–004–1t
1.5t	HL–3–004–1.5t

Capacity	a1	a2	L	L1	L2	M×P	Lifting weight
50kg–100kg	25 (0.98)	20 (0.79)	83 (3.27)	26 (1.02)	64 (2.52)	M10×1.5	0.25t
250kg	28 (1.10)	22 (0.87)	89 (3.50)	28 (1.10)	77 (3.03)	M12×1.75	0.4t
500kg–750kg	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
1.5t	40 (1.57)	32 (1.26)	118 (4.65)	28 (1.10)	110.5 (4.35)	M12×1.75	1.6t

HL-3-005



Capacity	Part number
50kg–100kg	HL–3–005–100/150kg
250kg	HL–3–005–200/300kg
500kg–750kg	HL–3–005–500/750kg
1t	HL–3–005–1t
1.5t	HL–3–005–1.5t



Capacity	L	L1	L2	M×P	Lifting weight
50kg–100kg	83 (3.27)	26 (1.02)	27 (1.06)	M10×1.5	0.25t
250kg	89 (3.50)	28 (1.10)	33 (1.3)	M12×1.75	0.4t
500kg–750kg	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
1.5t	118 (4.65)	28(1.10)	42(1.65)	M12×1.75	1.6t

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