

Type H3F 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

Non OIML approved



Certificate no. 06-099A1

Available models

Capacity	Accuracy	Full article description
100kg	C3	H3F-C3-100kg-6T
250kg	C3	H3F-C3-250kg-6T
500kg	C3	H3F-C3-500kg-6T
750kg	C3	H3F-C3-750kg-6T
1t	C3	H3F-C3-1t-6T
1.5t	C3	H3F-C3-1.5t-6T
2t	C3	H3F-C3-2t-6T
2.5t	C3	H3F-C3-2.5t-6T
5t	C3	H3F-C3-5t-6T

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

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Detailed specifications H3F

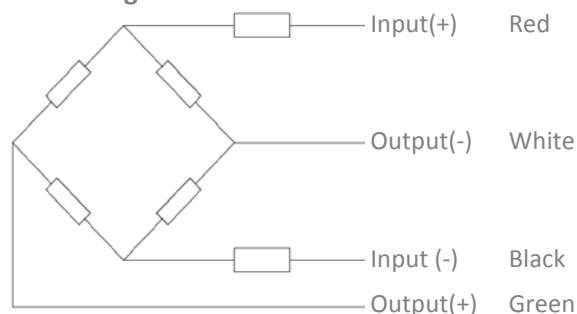
Accuracy class		C3
Output sensitivity (= FS)	mV/V	3.0 ± 0.008
Maximum capacity (E _{max})	t	0.1, 0.25, 0.5, 0.75, 1, 1.5, 2, 2.5, 5
Max.number of load cell intervals	n _{LC}	3000
Ratio of min. LC verification interval	$Y = E_{max} / v_{min}$	10000
Combined Error	%FS	≤± 0.020
Minimum dead load	Of E _{max}	0%
Safe overload	of E _{max}	150 %
Ultimate overload	of E _{max}	300 %
Zero balance	of FS	< ± 1.0 %
Excitation, recommended voltage	V	5 ~ 12
Excitation maximum	V	18
Input resistance	Ω	350 ± 3.5
Output resistance	Ω	351 ± 2.0
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	Nm	M10: 50 M12:75 M18: 300
ATEX classification (optional)		II1G Ex ia II1C T4 II1D Ex iaD 20 T73°C II3G nL IIC T4

Wiring

Wiring:

Shielded, 4 conductor cable.
 Cable diameter: Ø5mm.
 Standard cable length: 6m.
 Shield not connected to element

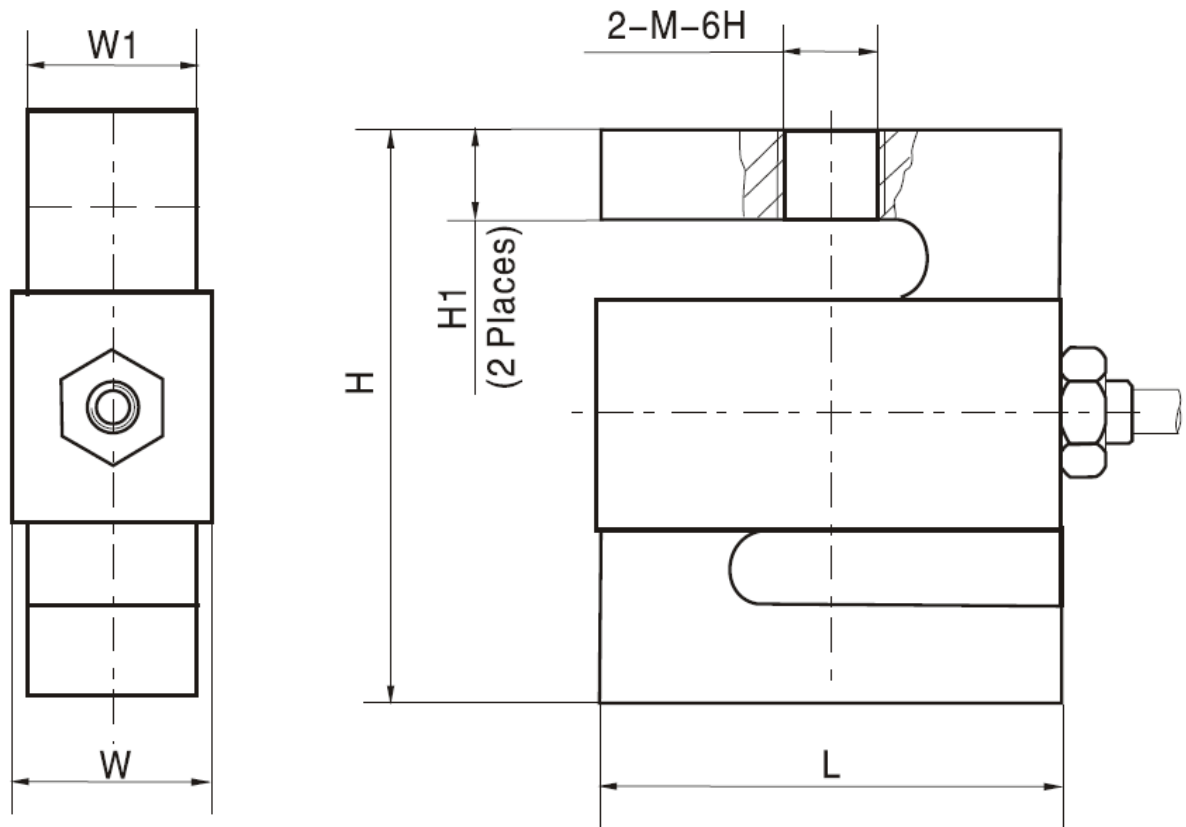
4-wire diagram



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Dimensions in mm


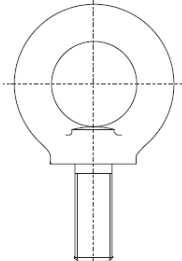
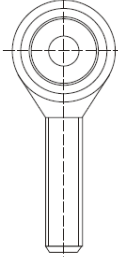
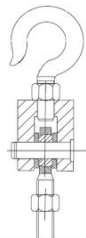
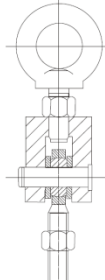


Dimension Capacity	H	W	W1	L	H1	M
100kg	76.2	20.6	19	50.8	15.8	M10 x 1.5
250kg	76.2	20.6	19	50.8	15.12	M12 x 1.75
500kg	76.2	20.6	19	50.8	14.2	M12 x 1.75
750kg	76.2	20.6	19	50.8	13.46	M12 x 1.75
1t	76.2	27	25.4	50.8	13.24	M12 x 1.75
1.5t	76.2	27	25.4	50.8	11.82	M12 x 1.75
2t	108	27	25.4	76.2	26.7	M18 x 1.5
2.5t	108	27	25.4	76.2	25.48	M18 x 1.5
5t	108	27	25.4	76.2	20.26	M18 x 1.5

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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.	

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