



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

Technical 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
Creep Error (30 minutes)	%FS	≤± 0.016
Temperature Effect on Zero (ZTC)	%FS/10°C	≤± 0.015
Temperature Effect on Sensitivity (STC)	%FS/10°C	≤± 0.011
Zero Balance	%FS	≤± 1.0
Safe Overload	%FS	150
Ultimate Overload	%FS	300
Maximum Deflection	mm	0.1935 ~ 0.4079
Excitation, Recommended Voltage	V	5 ~ 12
Excitation, Maximum Voltage	V	18
Input Resistance	Ω	350 ± 3.5
Output Resistance	Ω	351 ± 2.0
Insulation Resistance (50V)	MΩ	≥5000 (at 50VDC)
Compensated Temperature	°C	-10 ~ +40
Operating Temperature	°C	-35 ~ +65
Storage Temperature	°C	-40 ~ +70
Load Cell Weight	kg	0.1t – 1.5t: ± 0.6 ~ 0.8 2t – 5t: ± 1.5
Element Material		Nickel plated alloy steel
Ingress Protection (acc. to EN 60529)		IP67
Recommended Torque on Fixation Bolts	Nm	M10: 50 M12: 75 M18: 300
ATEX Classification (optional)		II1G Ex ia II1C T4 II1D Ex iaD 20 T73°C II3G Ex nL IIC T4

Wiring

Features:

Cable type: Shielded, 4 conductor cable , conductor AWG 22

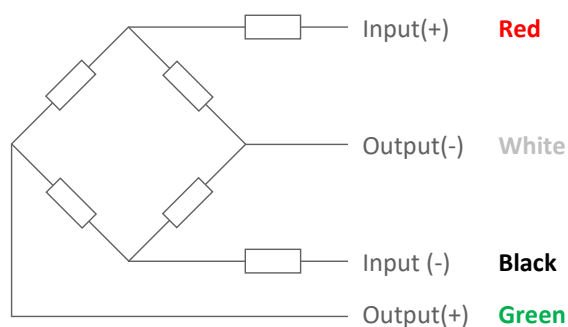
Cable diameter: Ø 5.0mm

Cable length: 6m

Cable jacket: Polyurethane

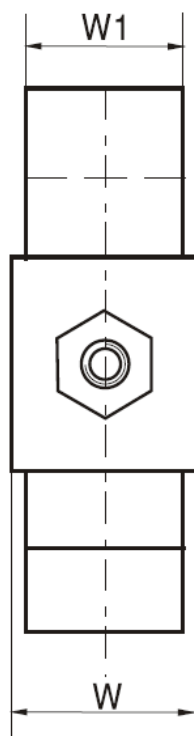
Shield not connected to element

4-Wire Connection Diagram

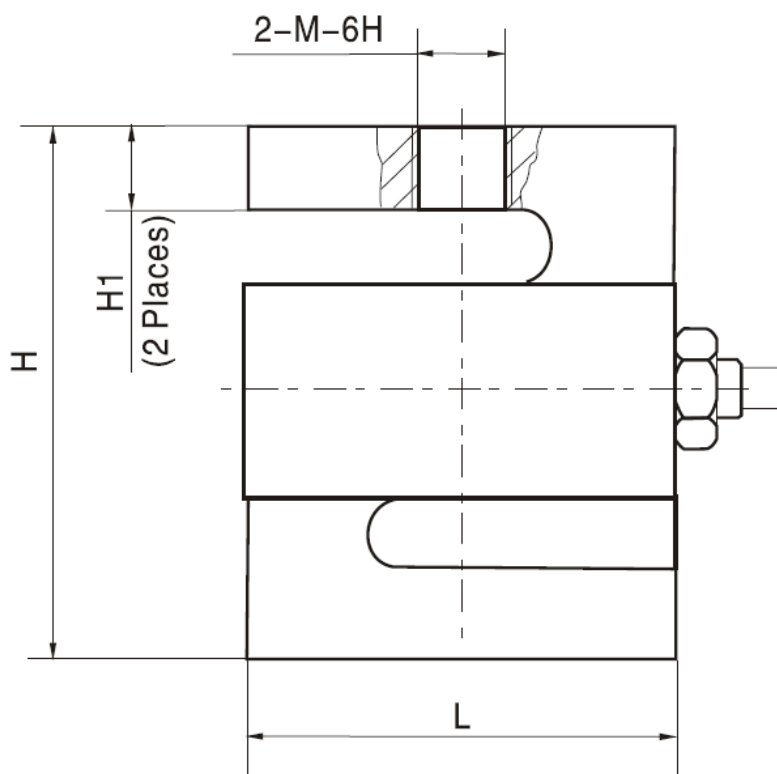


Dimensions in mm

Back View

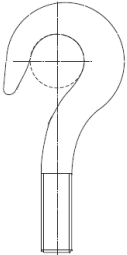
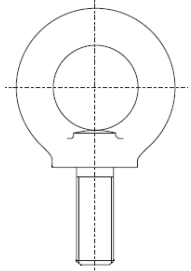
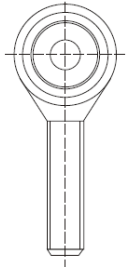
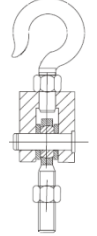


Side View



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

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	