



## S-TYPE LOAD CELL TYPE H3

### APPLICATIONS:

S-TYPE load cell type H3 can be used in small capacity weighing systems.

Some applications are:

- Mechanical conversion scales, hopper scales
- Suitable for hanging scales

### MAIN FEATURES:

- Nickel-Plated, tension or compression
- Alloy steel IP67
- OIML Certificates n.: R60/2000-CN-00.01



**NOMINAL LOAD:** OIML R60 C3/C4 → Kg: 100,150,200,300,500,600,750,1000,1500,2000,2500  
C3 → Kg: 25,50,300,500,750,10000,15000,20000,30000

<b>SPECIFICATION ACCORDING TO VDI/VDE 2637</b>			
<b>METROLOGICAL CHARACTERISTICS</b>	<b>Par.</b>	<b>Un.</b>	
NOMINAL LOAD	Ln	Kg/t	25Kg ÷ 30t
INITIAL LOAD	Lp	% Ln	20
MAXIMUM LOAD	LI	% Ln	150
NON-LINEARITY	Flin	% Ln	0,02
COMBINED ERROR	Fu	% Ln	±0,018
REPEATABILITY ERROR	Fv	% Ln	0,01
CREEP-30 MINUTES	Fcr	% Ln	±0,03
NOMINAL TEMPERATURE RANGE	Btn	°C	-10+40
ZERO TEMPERATURE DRIFT (OVER 10 °C)	TK0	% Cn	0,017
OUTPUT TEMPERATURE DRIFT (OVER 10 °C)	TKC	% Cn	0,015
THERMAL GRADIENT		°K/h	<5
<b>ELECTRICAL DATA</b>			
NOMINAL OUTPUT	Cn	m V/V	2
NOMINAL OUTPUT TOLERANCE	Dc	±% Cn	5
NOMINAL SUPPLY VOLTAGE	Bsu	V	0,5 ÷ 12
MAXIMUM SUPPLY VOLTAGE	Usmax	V	15
INPUT RESISTANCE	Re	Ω	350±3,5%
OUTPUT RESISTANCE	Ra	Ω	351±2%
INSULATION RESISTANCE @ 20V	Ris	MΩ	>5000
ZERO OUTPUT TOLERANCE	Do	±% Cn	±1,5
<b>MECHANICAL DATA</b>			
BREAKING LOAD	Ld	% Ln	300
MAXIMUM SIDE LOAD	Llq	% Ln	100
DEFLECTION	hn	mm	<1
CABLE LENGTH		mm	
WEIGHT		Kg	
<b>ENVIRONMENTAL CONDITIONS</b>			
WORKING TEMPERATURE RANGE	Btn	°C	-35+65
STORAGE TEMPERATURE RANGE	Bts	°C	-50+85
HOUSING PROTECTION			IP-67

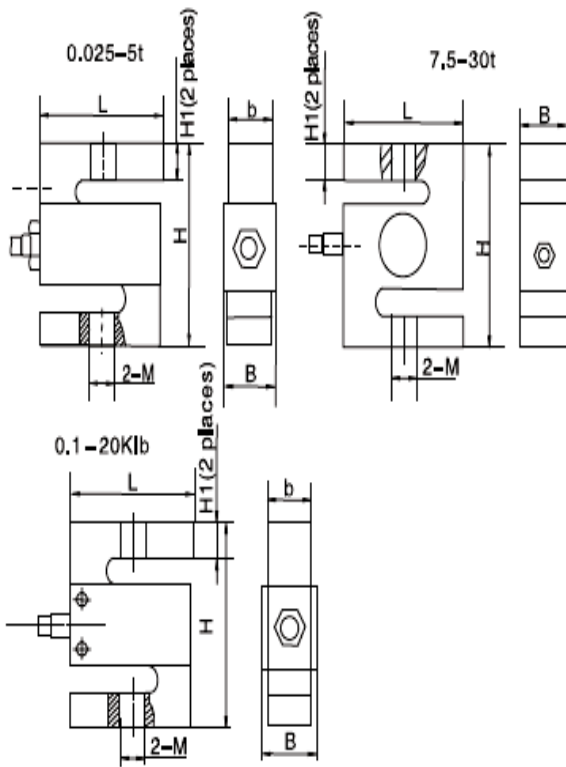
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**Dimensions** (in mm; 1mm = 0.03937 inches)



Dimension Capacity	L	H	b	B	M	H1
25 ~ 50kg	50.8(2.0)	76.2(3.0)	12.7(0.5)	14.5(0.57)	M8	15.7(0.62)
0.1 ~ 0.15t	50.8(2.0)	76.2(3.0)	19.0(0.75)	20.8(0.82)	M10 x 1.5	15.3(0.60)
0.2 ~ 0.75t	50.8(2.0)	76.2(3.0)	19.0(0.75)	20.8(0.82)	M12 x 1.75	13.6(0.54)
1 ~ 1.5t	50.8(2.0)	76.2(3.0)	25.4(1.0)	27.2(1.07)	M12 x 1.75	12.1(0.48)
2 ~ 5t	76.2(3.0)	101.6(4.0)	25.4(1.0)	27.2(1.07)	M20 x 1.5	20(0.79)
7.5 ~ 10t	125(4.92)	175(6.89)	50(1.97)	/	M33 x 3	40.2(1.58)
15 ~ 20t	160(6.3)	200(7.89)	60(2.36)	/	M42 x 3	51(2.01)
30t	190(7.48)	230(9.06)	80(3.15)	/	M42 x 3	57.5(2.26)
100 ~ 300lb	50.8(2.0)	63.5(2.5)	12.7(0.5)	15.9(0.63)	1/4-28UNF	8.9(0.35)
500lb	50.8(2.0)	63.5(2.5)	19.05(0.75)	22.25(0.88)	1/2-20UNF	8.9(0.35)
0.75 ~ 1.5klb	50.8(2.0)	63.5(2.5)	19.05(0.75)	22.25(0.88)	1/2-20UNF	
2 ~ 2.5klb	50.8(2.0)	63.5(2.5)	25.4(1.0)	28.6(1.13)	1/2-20UNF	14(0.55)
3klb	76.2(3.0)	101.6(4.0)	25.4(1.0)	28.6(1.13)	1/2-20UNF	
5 ~ 10klb	76.2(3.0)	101.6(4.0)	25.4(1.0)	28.6(1.13)	3/4-16UNF	15.8(0.62)
15klb	101.6(4.0)	139.7(5.5)	31.75(1.25)	34.95(1.38)	1-14UNS	27.5(1.08)
20klb	127(5.0)	177.8(7.0)	50.8(2.0)	54(2.13)	1 1/4-12UNF	39.9(1.57)

**Wiring:**

- Shielded, 4 conductor cable:  $\phi$  5mm.
- Standard cable length: 3m(0.025~1.5t), 6m(2~30t)(0.1~20klb).
- Cable type and cable length for customer's own application are available on request.
- Shield not connected to element.

