H2F



- Nickel plated alloy steel IP67 compression load cell
- High accuracy
- Suitable for hanging, hopper and other electronic weighing devices

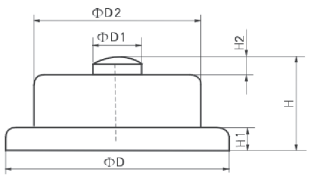
Available models

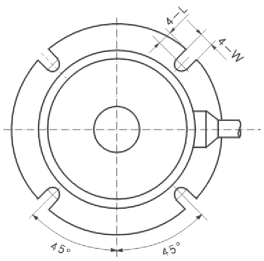
Capacity	Accuracy	Full article description
1 t	C3	H2F–C1/C2–1t–3T6
2 t	C3	H2F–C1/C2–2t–3T6
3 t	C3	H2F–C1/C2–3t–3T6
5 t	C2	H2F–C1/C2–5t–4T6
10 t	C2	H2F–C1/C2–10t–4T6
15 t	C1	H2F–C1/C2–15t–5T6
20 t	C1	H2F–C1/C2–20t–5T6
30 t	C1	H2F–C1/C2–30t–5T6
50 t	C1	H2F–C1/C2–50t–5T6

Specification

Accuracy class		C1	C2	C3
Output sensitivity (= FS)	mV/V	2.0 ± 0.01		
Maximum capacity (E_{max})	t	1/2/3/5/10/15/20/30/50		
Maximum number of load cell intervals (nLC)		1000	2000	3000
Ratio of minimum LC verification interval Y = E_{max} / v_{min}		3000	5000	7500
Combined error	%FS	± 0.050	± 0.030	± 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	770 ± 30		
Output resistance	Ω	700 ± 5		
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	M8:25	M10:50	M12:75

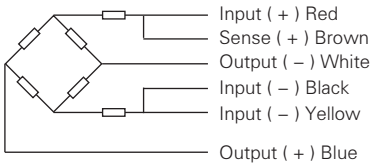
Dimensions in mm





Dimension (mm) / Capacity(t)	D	D1	D2	H	H 1	H2	L	W
0.5,1	115 (4.53)	22 (0.87)	86 (3.39)	43 (1.69)	12 (0.47)	5 (0.20)	8 (0.31)	8.4 (0.33)
2	120 (4.72)	26 (1.02)	90 (3.54)	45 (1.77)	12 (0.47)	5 (0.20)	8 (0.31)	8.4 (0.33)
3	128 (5.04)	20 (0.79)	100 (3.94)	46 (1.81)	8 (0.31)	5 (0.20)	7 (0.28)	10.4 (0.41)
5	128 (5.04)	20 (0.79)	100 (3.94)	46 (1.81)	8 (0.31)	5 (0.20)	7 (0.28)	10.4 (0.41)
10	160 (6.30)	40 (1.57)	120 (4.72)	63 (2.48)	15 (0.59)	10 (0.39)	10 (0.39)	10.4 (0.41)
15	194 (7.64)	42 (1.65)	154 (6.06)	68 (2.68)	20 (0.79)	10 (0.39)	12 (0.47)	12.4 (0.49)
20	220 (8.66)	44 (1.73)	170 (6.69)	73 (2.87)	22 (0.87)	10 (0.39)	12 (0.47)	12.4 (0.49)
30	230 (9.06)	48 (1.89)	188 (7.4)	78 (3.07)	25 (0.98)	10 (0.39)	12 (0.47)	12.4 (0.49)
50	264 (10.39)	52 (2.05)	214 (8.43)	90 (3.54)	30 (1.18)	10 (0.39)	12 (0.47)	12.4 (0.49)

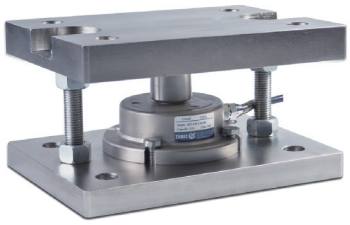
Wiring



- Shielded, 6 conductor cable.
- Cable diameter: Φ5mm.
- Standard cable length for 1t – 3t: 3m, for 5t – 10t: 4m and for 15t – 50t: 5m.
- Shield not connected to element.

Accessories

HM-2-401



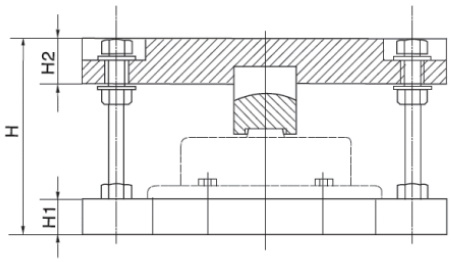
Short description

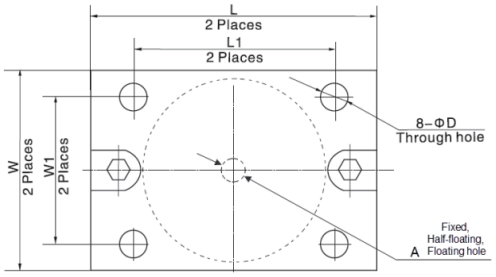
- Anti–reversal ability
- Easy installation
- Nickel plated alloy steel
- Self–aligning ability
- Can be used with Load Cell models: H2F
- Available in fixed, half–floating and floating version

Available models

Model	Capacity	Part number
HM–2–401	1t	HM–2–401–1t(Fixed)
	2t	HM–2–401–2t(Fixed)
	3t	HM–2–401–3t(Fixed)
	5t	HM–2–401–5t(Fixed)
	10t	HM–2–401–10t(Fixed)
	15t	HM–2–401–15t(Fixed)
	20t	HM–2–401–20t(Fixed)
	30t	HM–2–401–30t(Fixed)
	50t	HM–2–401–50t(Fixed)

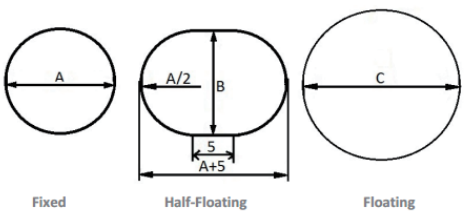
Dimensions in mm



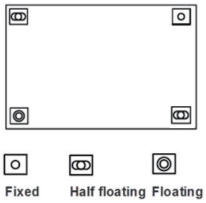


Dimension / Capacity	H	H1	H2	L	L1	W	W1	D
1t–5t	112 (4.41)	20 (0.79)	27 (1.06)	228 (8.98)	168 (6.61)	170 (6.69)	110 (4.33)	17.5 (0.69)
10t	143 (5.63)	25 (0.98)	31 (1.22)	260 (10.24)	200 (7.87)	200 (7.87)	140 (5.51)	20 (0.79)
15t	163 (6.42)	30 (1.18)	37 (1.46)	294 (11.57)	234 (9.21)	234 (9.21)	174 (6.85)	20 (0.79)
20t	173 (6.81)	30 (1.18)	37 (1.46)	320 (12.6)	260 (10.24)	260 (10.24)	200 (7.87)	20 (0.79)
30t	200 (7.87)	35 (1.38)	47 (1.85)	330 (12.99)	270 (10.63)	270 (10.63)	210 (8.27)	23 (0.91)
50t	225 (8.86)	40 (1.57)	55 (2.17)	364 (14.33)	294 (11.57)	294 (11.57)	224 (8.82)	27 (1.06)

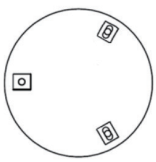
Fixed, half-floating, floating hole & mount positioning



Dimension(mm)	A	B	C
1t	35.6	35.6	40.6
2t	41.6	41.6	46.6
3t	35.6	35.6	40.6
5t	37.6	37.6	42.6
10t	57.6	57.6	62.6
15t	59.5	59.5	64.5
20t	61.5	61.5	66.5
30t	69	69	74
50t	73	73	78



Mount positioning samples



During installation you have to make sure that the top–plate can move freely.
The space between the top–plate and lift–off protection bolt head, and nut below should be sufficient to let the top–plate move freely. 3mm is the recommended space.