363TSM1

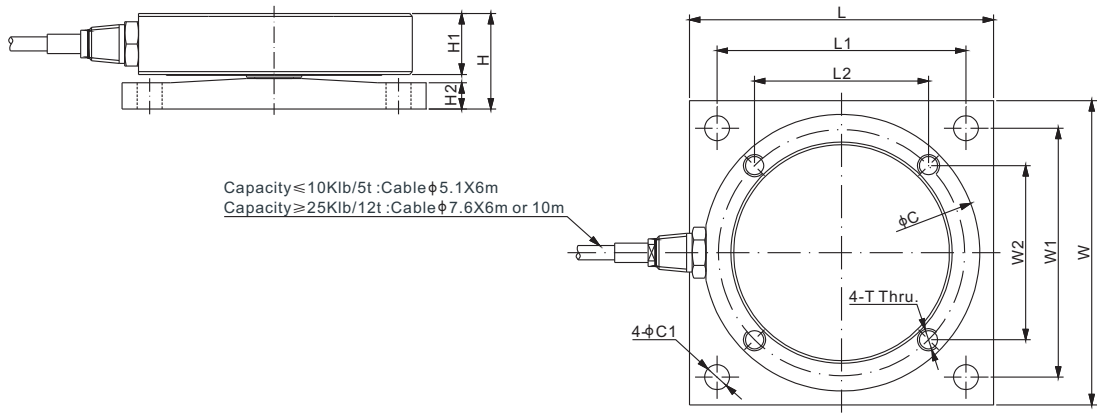
Stainless Steel, US Patent

ThinWeigh®

Features:

- Super thin, very low profile, excellent for limited space applications, such as tank, hopper and silo weighing
- High grade stainless steel, hermetic seal, IP68/IP69K
- Allows for 360° thermal expansion
- Uplift protection and side load protection
- No need assembly before installation

Mounting Top Plate (not shown in the picture): to order separately



DIMENSIONS

RATED CAPACITY	C	C1	H	H1	H2	L	L1	L2	W	W1	W2	T
Klb/inches												
1–2.5	3.94	0.35	1.02	0.65	0.26	4.33	3.54	2.48	4.33	3.54	2.48	5/16–18 UNC–2B
5–10	4.72	0.35	1.40	0.93	0.33	5.12	4.33	3.00	5.12	4.33	3.00	3/8–16 UNC–2B
25–50	5.75	0.53	2.17	1.38	0.55	6.22	4.92	3.51	6.22	4.92	3.51	1/2–20 UNF–2B
100	8.43	0.83	3.07	1.97	0.83	9.84	8.11	4.98	9.84	8.11	4.98	3/4–16 UNF–2B
200	9.84	1.06	3.82	2.32	1.14	11.22	8.86	5.76	11.22	8.86	5.76	1–14 UNS–2B
t/mm												
0.5–1.2	100.0	9.0	26.0	16.5	6.5	110.0	90.0	62.9	110.0	90.0	62.9	M8×1.25
2.5–5	120.0	9.0	35.5	23.5	8.5	130.0	110.0	76.4	130.0	110.0	76.4	M10×1.5
12–25	146.0	13.5	55.0	35.0	14.0	158.0	125.0	89.1	158.0	125.0	89.1	M12×1.75
50	214.0	21.0	78.0	50.0	21.0	250.0	206.0	126.6	250.0	206.0	126.6	M18X2.5
100	250.0	27.0	97.0	59.0	29.0	285.0	225.0	146.4	285.0	225.0	146.4	M24X3

SPECIFICATIONS

Full Scale Output	3.0 mV/V ± 0.25%	**Element Material**	17-4PH Stainless Steel
Zero Balance	Cap.≤1.2t/2.5Klb:≤ ± 0.04 mV/V Cap.≥2.5t/5Klb:≤ ± 0.02 mV/V	**Recommended Excitation**	10V (15V Maximum)
		Insulation Resistance	>2［50V DC］GΩ
Non-linearity	Cap.≤1.2t/2.5Klb: < ± 0.05%; Cap.: 2.5t-12t/5K-25Klb: < ± 0.1% or < ± 0.3% Cap.≥25t/50Klb: < ± 0.3%	**Thermal Expansion / Contraction or Minor Misalignment**	500kg - 5t / 1K - 10Klb: 2mm 12t - 100t / 25Klb - 50t: 3mm
		Compensated Temperature Range	-10°C to 50°C / 14°F to 122°F
Repeatability	< ± 0.05%	**Safe Overload**	150% of full scale
Hysteresis Error	Cap.≤1.2t/2.5Klb: < ± 0.05%; Cap.: 2.5t-12t/5K-25Klb: < ± 0.1% or < ± 0.3% Cap.≥25t/50Klb: < ± 0.3%	**Breaking Overload**	300% of full scale
		Up Lift Protection	50% of full scale
		Side Load Protection	50% of full scale
Creep in 30 min.	< ± 0.05%	**Seal Type / IP Rating**	IP68 / IP69K
Input Resistance	700Ω ± 10	**Cable Color Code**	Exc+ Red Exc- Black Sig+ Green Sig- White Shield Bare
Output Resistance	700Ω ± 5		

AVAILABLE OPTIONS

■ Alloy Steel construction: 363THM1 (for 100Klb and 200Klb only)

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PART NUMBER

Cable Length: 6m

Rated Capacity	Part No.	Weight Approx. (kg)
1Klb	363TSM1-1Klb	-
2.5Klb	363TSM1-2.5Klb	2.0
5Klb	363TSM1-5Klb	3.2
10Klb	363TSM1-10Klb	3.2
25Klb	363TSM1-25Klb	7.4
50Klb	363TSM1-50Klb	7.4
100Klb	363TSM1-100Klb	27.2
200Klb	363TSM1-200Klb	43.0

Cable Length: 10m

Rated Capacity	Part No.	Weight Approx. (kg)
25Klb	363TSM1-25Klb-10m	7.4
50Klb	363TSM1-50Klb-10m	7.4
100Klb	363TSM1-100Klb-10m	27.6
200Klb	363TSM1-200Klb-10m	43.4

PART NUMBER

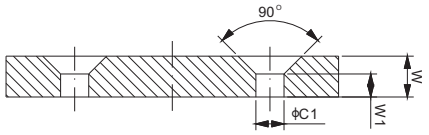
Cable Length: 6m

Rated Capacity	Part No.	Weight Approx. (kg)
500kg	363TSM1-500kg	-
1.2t	363TSM1-1.2t	2.0
2.5t	363TSM1-2.5t	3.2
5t	363TSM1-5t	3.2
12t	363TSM1-12t	7.4
25t	363TSM1-25t	7.4
50t	363TSM1-50t	27.2
100t	363TSM1-100t	43.0

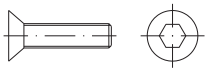
Cable Length: 10m

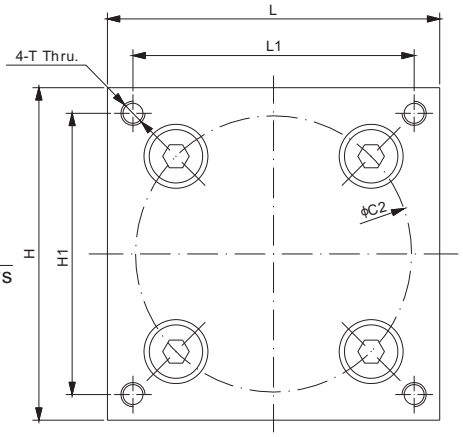
Rated Capacity	Part No.	Weight Approx. (kg)
12t	363TSM1-12t-10m	7.4
25t	363TSM1-25t-10m	7.4
50t	363TSM1-50t-10m	27.6
100t	363TSM1-100t-10m	43.4

MOUNTING TOP PLATE



Matching Bolts
Hexagon Socket Countersand Head Screws





DIMENSIONS

RATED CAPACITY	C1	C2	H	H1	L	L1	W	W1	T
Klb/inches									
1–2.5	0.35	3.50	4.33	3.54	4.33	3.54	0.50	0.24	5/16–18 UNC–2B
5–10	0.43	4.25	5.12	4.33	5.12	4.33	0.63	0.35	3/8–16 UNC–2B
25–50	0.53	4.96	6.22	4.92	6.22	4.92	0.79	0.47	1/2–20 UNF–2B
100	0.83	7.05	9.84	8.11	9.84	8.11	1.00	0.55	3/4–16 UNF–2B
200	1.06	8.15	11.22	8.86	11.22	8.86	1.50	0.91	1–14 UNS–2B
t/mm									
0.5–1.2	9.0	89.0	110.0	90.0	110.0	90.0	12.7	6.2	M8×1.25
2.5–5	11.0	108.0	130.0	110.0	130.0	110.0	16.0	9.0	M10×1.5
12–25	13.5	126.0	158.0	125.0	158.0	125.0	20.0	12.0	M12×1.75
50	21.0	179.0	250.0	206.0	250.0	206.0	25.4	13.9	M18X2.5
100	27.0	207.0	285.0	225.0	285.0	225.0	38.1	23.1	M24X3

PART NUMBER

Rated Capacity	Part No.	Weight Approx. (kg)
1Klb-2.5Klb	TP363TSM1-(1-2.5)Klb	1.3
5Klb-10Klb	TP363TSM1-(5-10)Klb	2.2
25Klb-50Klb	TP363TSM1-(25-50)Klb	4.0
100Klb	TP363TSM1-100Klb	13.0
200Klb	TP363TSM1-200Klb	25.0

PART NUMBER

Rated Capacity	Part No.	Weight Approx. (kg)
0.5t-1.2t	TP363TSM1-(0.5-1.2)t	1.3
2.5t-5t	TP363TSM1-(2.5-5)t	2.2
12t-25t	TP363TSM1-(12-25)t	4.0
50t	TP363TSM1-50t	13.0
100t	TP363TSM1-100t	25.0

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