

Model LS

LOW PROFILE SHEARBEAM LOAD CELL



The LS is one of the few true low profile shearbeam load cells. If height is an issue with your application, consider a 1t shearbeam at only 24mm high, similar space savings are seen across the LS series.

Known and recognised by its keyhole feature, the LS is used extensively in airport baggage scales and all types of above and in-ground platform weighing scales.

With one of the worlds largest capacity spreads in a single model the LS is available from 50kg to 10t in 8 capacities.

A full range of mounting accessories are available.

APPLICATIONS

- Ultra low profile platform scales
- Space limitation installations
- General industrial weighing

FEATURES

- Ultra low profile
- Wide capacity range 50kg ~ 10t
- Electroless nickel plated
- Fully encapsulated
- Matched mV/V and impedance

Specifications

Note: All specifications are a maximum, as a % (\pm) of full load, unless otherwise stated.

Nominal Capacity	50kg ~ 10t	Ultimate Load	300% of Rated Capacity
Signal Output at Capacity	2mV/V \pm 0.1%	Input Resistance	410 Ω Nominal
Linearity error	< 0.017% FSO	Output Resistance	352.2 Ω Matched \pm 0.2 Ω
Non-Repeatability	< 0.010% FSO	Insulation Resistance (bridge to ground)	> 5000 M Ω at 100V DC
Combined Error	< 0.023% FSO	Excitation Voltage (Recommended)	5 ~ 15V AC/DC
Hysteresis	< 0.010% FSO	Excitation Voltage (Maximum)	15V AC/DC
Creep/Zero Return (30 mins)	< 0.023% / 0.017% FSO	Storage Temperature Range	-50 ~ 70°C
Zero Balance	< 1.000% Capacity	Cable Type	5.5mm, Screened, PVC Sheath
Temperature Effect on Span/10°C	< 0.010% FSO		6 Core x 0.24mm ² (24 AWG)
Temperature Effect on Zero/10°C	< 0.015% Capacity	Cable Length	3 Metres (50kg ~ 1t)
Compensated Temperature Range	-10 ~ 50°C		5 Metres (2.5t ~ 10t)
Operating Temperature Range	-30 ~ 70°C	Material	Alloy Tool Steel
Service Load	100% of Rated Capacity	Finish	Electroless Nickel Plated
Safe Load	150% of Rated Capacity		



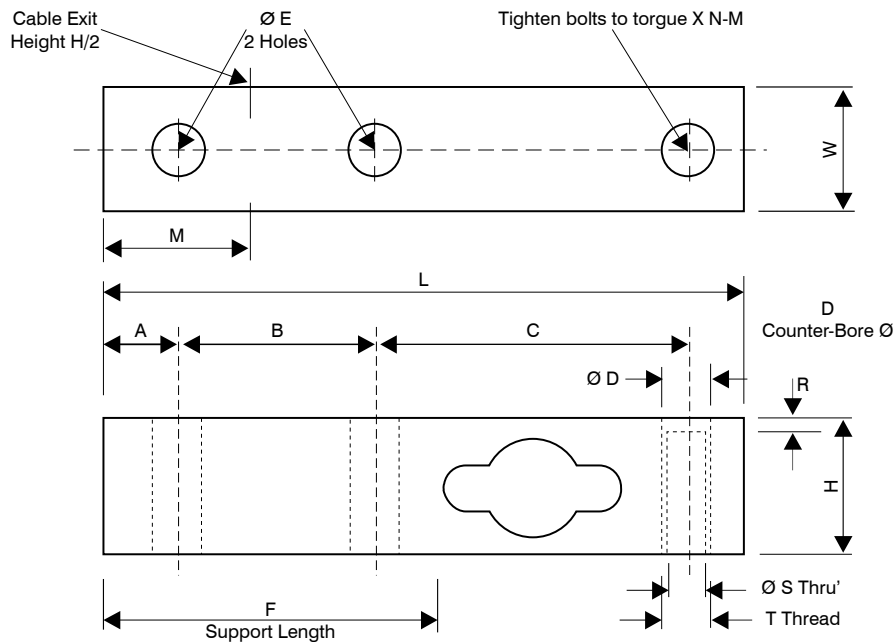
Manufactured in New Zealand

PT Limited®

<http://www.pt-global.com>

Ordering Information

MODEL	Part Number	ACCESSORIES	Part Number					CABLES PACKS	Part Number
LS-50kg	LSM0050T000XXX		50kg ~ 1t	2.5t	5t	10t		Junction box to indicator runs.	
LS-100kg	LSM0100T000XXX	Load Button	A-LBM12	A-LB20	A-LB30	A-LB40		Available by the metre.	
LS-250kg	LSM0250T000XXX	Load Socket	A-LS20	A-LS20	A-LS30	A-LS40		10 Metres	A-6C5.5-0010
LS-500kg	LSM0500T000XXX	Rod End	A-REM12N	N/A	N/A	N/A		50 Metres	A-6C5.5-0050
LS-1t	LSM1000T000XXX	Ball & Cup	A-BC20	A-BC20	A-BC40	A-BC40		100 Metres	A-6C5.5-0100
LS-2.5t	LSM2500T000XXX	Swivel Foot	A-SFM12	A-SFM12	N/A	N/A		Cable Joint Kit	A-CAB-JOINTSTD
LS-5t	LSM5000T000XXX	Mounting Set	M-LS-1	M-LS-2	M-LS-5	M-LS-10			
LS-10t	LSM010TT000XXX								



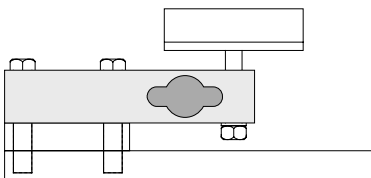
Load Cell Dimensions

	A	B	C	D	E	F	H	L	M	R	S	T	W	X	Weight
50kg	10	35	72	Ø 12	Ø 11	55	20	127	24	2	Ø 10.3	M12 x 1.75	20	45	0.4
100kg	10	35	72	Ø 12	Ø 11	55	20	127	24	2	Ø 10.3	M12 x 1.75	20	45	0.4
250kg	10	35	72	Ø 12	Ø 11	55	18	127	24	2	Ø 10.3	M12 x 1.75	20	45	0.4
500kg	10	35	72	Ø 12	Ø 11	55	24	127	24	2	Ø 10.3	M12 x 1.75	20	45	0.5
1t	10	35	72	Ø 12	Ø 11	55	24	127	24	2	Ø 10.3	M12 x 1.75	20	45	0.5
2.5t	15	64	88	Ø 20	Ø 13	94	38	182	43	5	Ø 13.0	None	25	75	1.2
5t	20	76	109	Ø 30	Ø 17	115	47.5	225	63	7.5	Ø 17.0	None	35	210	2.6
10t	25	90	112	Ø 40	Ø 26	115	65	252	78	10	Ø 26.0	None	48	710	4.9

Dimensions in mm Weight in kg

Accessories

LS & Mounting Set



PT Cable Colour Code

Excitation	+ve	Red
Sense	+ve	Brown
Excitation	-ve	Black
Sense	-ve	Blue
Signal	+ve	Green
Signal	-ve	White

