

## Type LFT Load Cell



### 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



Test certificate no. TC7868 Revision 1  
C of C no R60/2000-NL1-12.52



Certificate no. 06-099A1

### Available Models

P/N	Capacity	Accuracy	Full Article Description
72209200	100kg	C3 Excluded from OIML	LFT-100-C3-3B
72209201	150kg	C3 Excluded from OIML	LFT-150-C3-3B
72209202	200kg	C3 Excluded from OIML	LFT-200-C3-3B
72209203	250kg	C3 Excluded from OIML	LFT-250-C3-3B
72209204	300kg	C3/C4	LFT-300-C3-3B
72209205	500kg	C3/C4	LFT-500-C3-3B
72209206	750kg	C3/C4	LFT-750-C3-3B
72209207	1t	C3/C4	LFT-1T-C3-3B
72209208	2t	C3/C4	LFT-2T-C3-3B
72209209	3t	C3/C4	LFT-2T-C3-3B
72209210	5t	C3/C4	LFT-5T-C3-3B
722092011	7.5t/10t/15t	C3/C4	LFT-7.5/10T/15T-C3-3B
722092012	20t/30t/40t	C3/C4	LFT-20/30/40T-C3-3B
722092013	50t/60t/70t/80t	C3/C4	LFT-50/60/70/80T-C3-3B
722092014	100t/200t/300t	C3/C4	LFT-100/200/300T-C3-3B
722092015	500t/600t	C3/C4	LFT-500/600T-C3-3B

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### Technical Specifications LFT

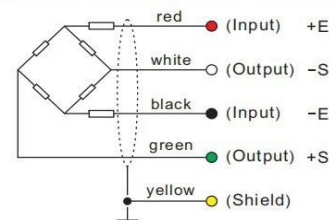
Accuracy Class		OIML R60 C3	OIML R60 C4	C3
Output Sensitivity ( = FS )	mV/V	2.0 ± 0.2 / 3.0 ± 0.2		
Maximum Capacity ( Emax )	kg	100,150,200,250,300,500,750,1t 1.5t,2t,2.5t,3t,5t,7.5t,10t,15t,20t,30t,30t.....600t		
Max. Number of Load Cell Intervals	nLC	3000	4000	3000
Ratio of min. LC Verification Interval	Y = Emax / vmin	10000	15000	10000
Combined Error	%FS	≤± 0.020	≤± 0.018	≤± 0.020
Minimum dead load	Of Emax	0%		
Safe overload	of Emax	150 %		
Ultimate overload	of Emax	300 %		
Zero balance	of FS	< ± 2.0 %		
Excitation, recommended voltage	V	5 ~ 12		
Excitation maximum	V	18		
Input resistance	Ω	755 ± 20		
Output resistance	Ω	700 ± 3.5		
Insulation resistance	MΩ	≥5000 ( at 50VDC )		
Compensated temperature	°C	-10 ~ +40		
Operating temperature	°C	-35 ~ +65		
Storage temperature	°C	-40 ~ +70		
Element material		Nickel plated alloy steel		
Ingress Protection (acc. to EN 60529)		IP67		
Recommended torque on fixation bolts	Nm	M6,M8:25 M10: 50 M12:75 M20:450 M33:750 M42:1450		
ATEX classification (optional)		II1G Ex ia II1C T4 II1D Ex iaD 20 T73°C II3G nL IIC T4		

### Wiring

#### Features:

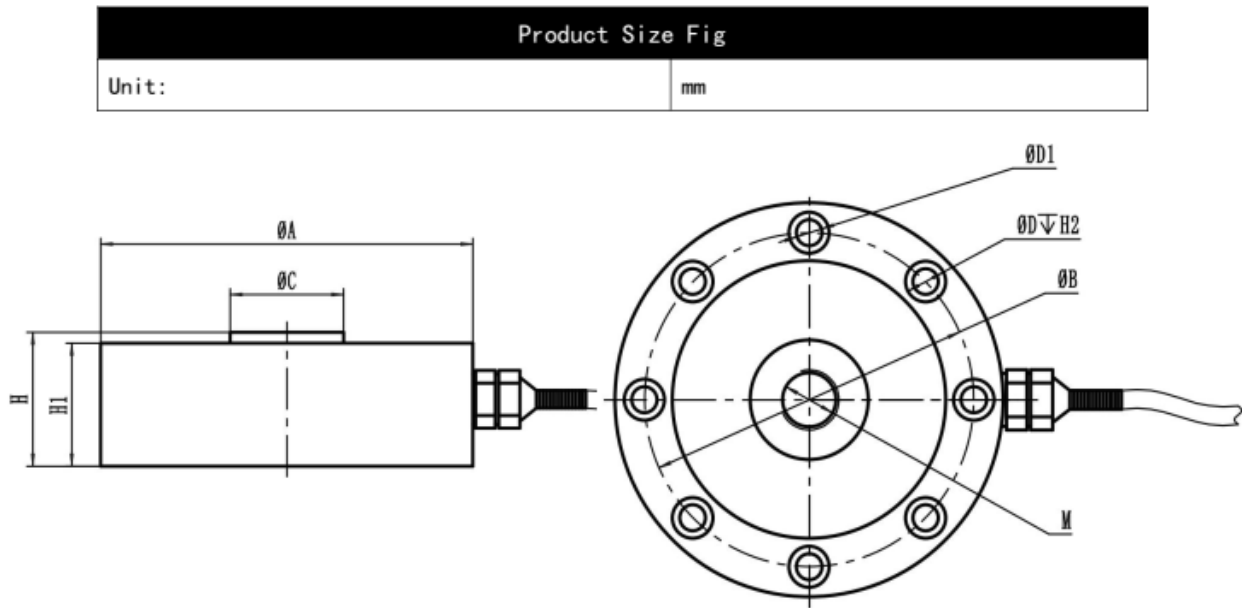
Shielded, 4 conductor cable.  
Cable diameter: Ø5.3mm.  
Standard cable length for 100kg – 5t: 3m/5m and for 10t – 30t: 15m ,  
30t – 600t: 15m/30m  
Shield connected to element.  
Cable jacket in PVC.

#### Mode of Connection



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Dimensions in mm



Range	$\Phi A$	$\Phi B$	$\Phi C$	M	H	H1	H2	$\Phi D$	$\Phi D1$
100-1000kg	74	63	24	M16× 1.5	34	30	7.2	8- $\Phi$ 9	8- $\Phi$ 6
1-5t	105	89	32	M16× 1.5	37	34	7.2	8- $\Phi$ 11	8- $\Phi$ 7
10-20t	120.6	101.8	39	M32× 1.5	53.5	41	10.5	8- $\Phi$ 14	8- $\Phi$ 9
30t	141	116.8	50.4	M40× 1.5	57.2	50.8	11	8- $\Phi$ 18	8- $\Phi$ 11
40-80t	208	174	95	M64× 3	70	/	15	16- $\Phi$ 20	16- $\Phi$ 13
100- 200t	280	230	136	M76× 3	90	/	20	16- $\Phi$ 26	16- $\Phi$ 17
300-400t	360	300	190	M100x3	110	/	20	20- $\Phi$ 40	20- $\Phi$ 25
500-600t	420	370	266	M130x4	140	/	30	20- $\Phi$ 42	20- $\Phi$ 28