Type IT3 Load Cell

SCALE-TEC
MEASUREMENT WITH CONFIDENCE



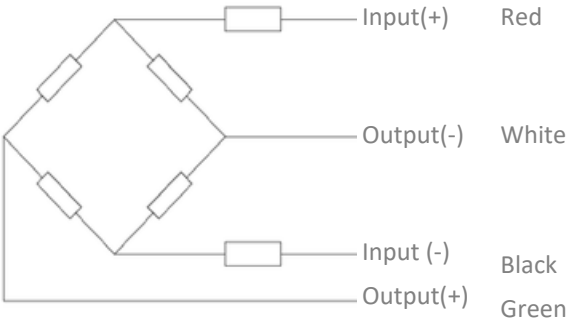
Short description

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

Available models

Capacity	Accuracy	Full article description
50kg	C3	IT3-C3-50kg-3M
100kg	C3	IT3-C3-100kg-3M
250kg	C3	IT3-C3-250kg-3M
500kg	C3	IT3-C3 -500kg-3M
1t	C3	IT3-C3 -1t-3M
2.5t	C3	IT3-C3 -2.5t-6M
5t	C3	IT3-C3-5t-6M
7.5t	C3	IT3-C3-7.5t-6M

wire diagram



Wiring:

Shielded, 4 conductor cable.
Cable diameter: Ø5mm
Standard cable length for 25kg – 1.5t: 3m and for 2t – 30t: 6m.
Shield not connected to element.

Specifications and dimensions are subject to change without notice and do not constitute any liability whatsoever.

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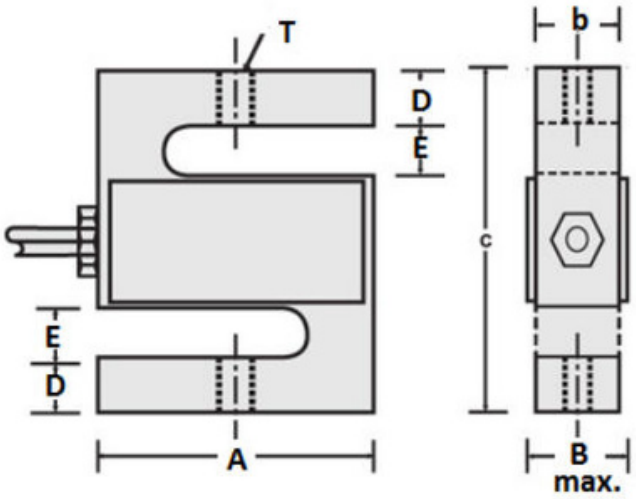
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Detailed specifications IT3

Accuracy class		C3
Output sensitivity (= FS)	mV/V	3.0 ± 0.006
Maximum capacity (E_{max})	t	0.05, 0.1, 0.25 0.5, 1, 2.5, 5, 7.5
Max.number of load cell intervals	n_{LC}	3000
Ratio of min. LC verification interval	$Y = E_{max}/v_{min}$	10000
Combined Error	%FS	≤± 0.020
Minimum dead load	OfE_{max}	0%
Safe overload	of E_{max}	150 %
Ultimate overload	of E_{max}	300 %
Zero balance	ofFS	< ± 1.5 %
Excitation, recommended voltage	V	5 ~ 12
Excitation maximum	V	18
Input resistance	Ω	350 ± 3.5
Output resistance	Ω	351 ± 2.0
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	Nm	M8:25 M10: 50 M12:75 M20:450 M33:750 M42:1450

Dimensions in mm



CAPACITY	A	B (max)	b	C	T	D	E	Torque Kg.M.	Cable Mtrs
20, 30, 50, 75, 100Kgf.	50	20	12.5	62	M6 X 1.00	10	9	0.25	3
150, 200, 300, 500, 750Kgf., 1Tf.	50	25	19	62	M12 X 1.25	10	9	0.50	3
1.5, 2, 2.5, 3Tf	75	38	27	100	M20 X 1.50	17	9	2.00	3
5, 7.5Tf.	90	40	32	140	M24 X 2.00	25	9	9.00	5
10Tf.	112	52	45	175	M30 X 2.00	40	13	10.00	5
15, 20Tf.	150	72	65	250	M36 X 3.00	60	13	12.00	5
30Tf.	140	75	72	250	M39 X 2.00	85	13	15.00	5

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