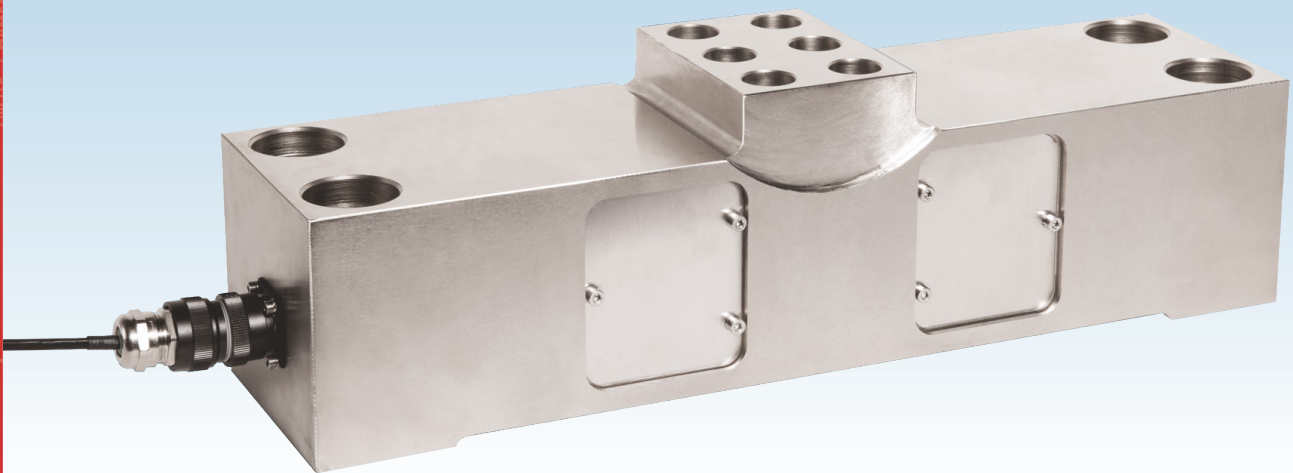


DOUBLE SHEAR BEAM LOAD CELL FOR HIGH TEMPERATURE APPLICATIONS

capacities 40t - 200t



This high accuracy double shear beam load cell is ideal for weighing in high temperature environments within Foundries, for example ladle turret and ladle ferry scales, scrap buckets, roller tables, tundish cars and silo/hopper weighing systems.

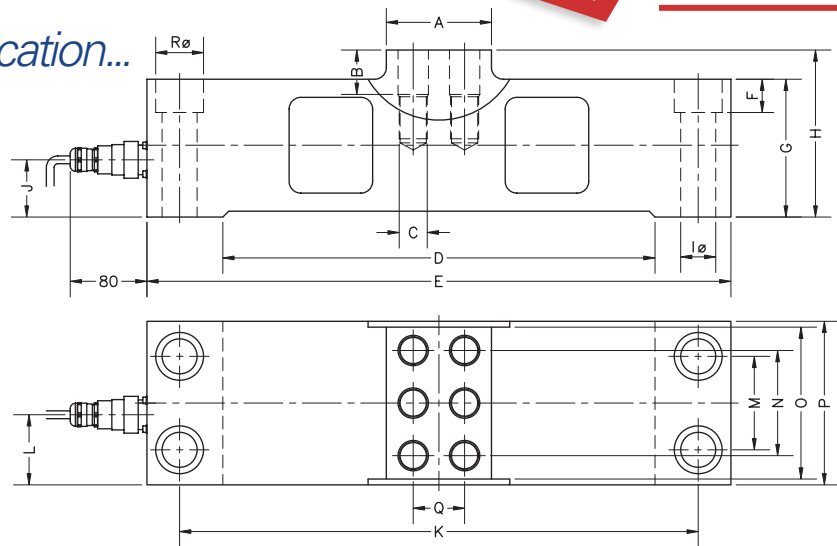
The T38 load cell features a combined error of just $\pm 0.05\%$, a maximum service temperature of 150°C , a measuring element from nickel plated alloy steel and environmental protection to IP67. The connection to the 15-metre long PTFE cable is by a hermetically sealed connector, so that the cable can be changed or installed separately (if desired).

Installation is simple and fast, through direct bolting to the connecting structure with no moving parts. Additionally, there is no need for any tie-bars or holding rods. Maintenance requirements are kept to a minimum with this optimised design.

- Double shear beam load cell
- Combined error $\pm 0.05\%$
- PTFE cable, 15 metres long
- Hermetically sealed cable connector, for separate connection of cable (if desired)
- 6-wire (with sense) connection
- IP67 protection
- 2 year warranty
- Maximum service temperature 150°C
- Nickel plated alloy steel measuring element
- Virtually unaffected by shock loads and inevitable side loads or moments
- Wide compensated temperature range
- Superior repeatability and long-term stability

T38

technical specification...



T38 Load Cell

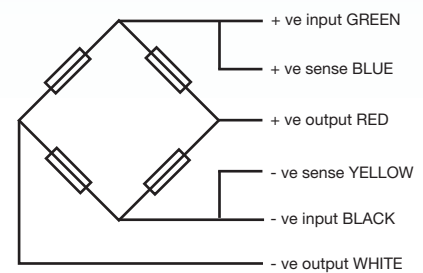
	Load cell specification	Units
Load Cell Capacities	40, 50, 100, 150, 200	tonnes
Rated Output	2	mV/V +/- 0.25%
Combined Error (constant temp.)	< +/- 0.05	%*
Non-repeatability	< +/- 0.05	%*
Creep (30 minutes)	< +/- 0.05	%*
Temperature Effect on Zero Balance	< +/- 0.005	%* / °C
Temperature Effect on Span	< +/- 0.003	%* / °C
Compensated Temperature Range	-10 to +100	°C
Operating Temperature Range	-30 to +150	°C
Minimum Dead Load (E_{min})	0	%*
Safe Overload	150	%*
Ultimate Overload	≥ 180	%*
Zero Balance	< +/- 2	%*
Input Resistance	800	Ω +/- 30
Output Resistance	700	Ω +/- 5
Insulation Resistance	> 5000	MΩ @ 100V
Recommended Supply Voltage	10	V
Maximum Supply Voltage	15	V
Environmental Protection	IP67	
Cable Length	15	m
Maximum deflection (at capacity)	0.6 to 1	mm
Nominal Shipping Weight	40t	32
	50t	36
	100t	54
	150t	81
	200t	116

*With respect to rated load

Dimensions

Capacity	40t	50t	100t	150t	200t
A	n/a	80	90	90	90
B	n/a	32	38	38	40
C	M20x30	M20x30	M24x36	M24x36	M24x40
D	340	340	370	410	450
E	450	450	500	560	620
F	n/a	25.5	28.5	32	32
G	105	105	118	133	150
H	n/a	130	143	158	175
I Ø	26	26	30	33	33
J	45	45	49	66	70.5
K	398	398	444	500	560
L	47	52	58	67.5	64
M	68	68	80	94	114
N	75	75	90	102	110
O	n/a	110	130	150	170
P	110	120	140	160	180
Q	40	40	44	44	44
R Ø	n/a	38	41	46	46

Dimensions in mm



The 2 sense wires are especially important with long cables and wide temperature ranges.

Electrical Connections

Via 6 wire, 4.5mm diameter, screened PTFE cable.
Screen not connected electrically to load cell.

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Our policy is one of continuous product enhancement. We therefore reserve the right to incorporate technical modifications without prior notification.