



Shear Beam Loadcell Standard Ranges 0.5, 1, 2, 4, 8, 12 and 16tonne (5 to 160kN)

- Hardened stainless steel body
- Sealed to IP65
- Mounting assemblies available
- Output rationalised to 2mV/V
- Standard 2 year warranty



Geometry: Shear strain beam for use in all process weighing applications and also engineering force measurement in compression or tension.

The F268 is ideally suited to process weighing applications which have harsh environmental requirements. The design configuration allows it to be used for installations for tank, hopper, weigh platforms or weigh bridges.

We are happy to design variants of this loadcell to meet your specific requirements. Versions can be manufactured for fully compensated operation up to $+250^{\circ}$ C. Please consult our engineering department.

Details of our other loadcell families can be found in the Loadcell Specifier Guide. If you require a copy please contact our sales department or look on our web site at www.novatechloadcells.co.uk.

Ordering Codes:		See the loadcell ordering code sheet for more details. Add range in the required units.				
F268CFR0HN	Comp	pression, IP65, rationalised	F268TFR0HN	Tension, IP65, rationalised		
F268UFR0HN	Bi-di	rectional, IP65, rationalised				

F268 Specification

Parameter	Value	Unit
Non-linearity - Terminal	±0.1	% RL
Hysteresis	±0.1	% RL
Creep - 20 minutes	±0.05	% AL
Repeatability	±0.02	% RL
Rated output - Rationalised	2.0	mV/V
Rationalisation tolerance	±0.1	% RL
Zero load output	±4	% RL
Temperature effect on rated output per °C	±0.002	% AL
Temperature effect on zero load output per °C	±0.005	% RL
Temperature range - Compensated	-10 to +50	°C
Temperature range - Safe	-10 to +80	°C
Excitation voltage - Recommended	10	V
Excitation voltage - Maximum	10	V
Bridge resistance	350	Ω
Insulation resistance - Minimum at 50Vdc	500	MΩ
Overload - Safe	50	% RL
Overload - Ultimate	100	% RL
Sealing	IP65	

All standard ranges are manufactured in stainless steel.

Structural stiffness - Nominal									
Range (kN)	Stiffness (N/m)	Range (kN)	Stiffness (N/m)	Range (kN)	Stiffness (N/m)				
5	1.3×10^8	40	6.6 x 10 ⁸	160	1.7 x 10 ⁹				
10	2.0×10^8	80	8.5 x 10 ⁸						
20	3.3×10^8	120	1.3 x 10 ⁹						

Notes

1. AL = Applied load.

2. RL = Rated load.

3. Temperature coefficients apply over the compensated range.

Connections

For ranges up to 4 tonnes the F268 loadcell is fitted with 2 metres of PVC insulated 4 core screened cable type 7-2-4C. Ranges above 4 tonnes are fitted with 16-2-4C cable.

Excitation + = Red Excitation - = Blue

Screen = Orange

Reverse the signal connections to obtain a positive signal in tension mode. The screen is not connected to the loadcell body.



Novatech reserves the right to vary the foregoing details without prior notice

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