

F304

Brake Pedal Force Loadcell

Standard Range 2.5kN (250kgf)

- ◆ Off centre loading compensation
- ◆ Simple cable tie or screw fixing
- ◆ Anti-slip rubber mat
- ◆ Removable loading plate
- ◆ Output rationalised to 2mV/V
- ◆ Traceable calibration with certificate included in the standard price



The F304 is a compact, high accuracy low profile loadcell for measuring brake pedal application forces. The loadcell is robust in construction with a maximum force range of 2.5kN (250kgf). Its multi-hole fixing allows simple attachment to any shape pedal using screws or cable ties. The low profile stainless steel design maintains the brake pedals ergonomic geometry.

Additional information can be found in Engineering Sheet E030. If you require other force ranges the F322 or F323 may be suitable.

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°C. Please consult our engineering department.

Details of our other loadcell families can be found in the Product List and 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.		
F304CFR0KN	Compression, IP65, rationalised		

F304 Specification

Parameter	Value	Unit
Non-linearity - Terminal	±0.05	% RL
Hysteresis	±0.05	% 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	20	V
Bridge resistance	700	Ω
Insulation resistance - Minimum at 50Vdc	500	MΩ
Inclined load error - concentric at 3°	±0.25	% RL
Structural stiffness	3.9 x 10 ⁷	N/m
Overload - Safe	50	% RL
Overload - Ultimate	200	% RL
Sideload - Safe	100	% RL
Sealing	IP65	
Weight - Nominal (excluding cable)	210	g

The standard range is manufactured in stainless steel.

Notes

1. AL = Applied load.

2. RL = Rated load.

3. Temperature coefficients apply over the compensated range.

Connections

The loadcell is fitted with 2 metres of flexible polyurethane jacketed 4 core screened cable.

Excitation + = Red

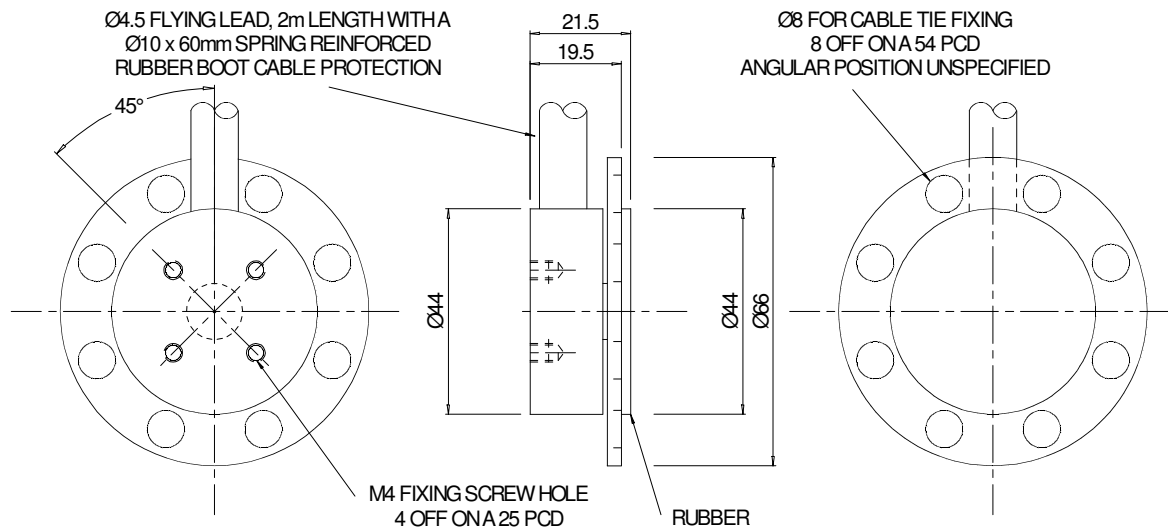
Signal + = Yellow

Screen = Orange

Excitation - = Blue

Signal - = Green

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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NOVATECH MEASUREMENTS LTD

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