

F323

Clutch Pedal Force Loadcell Standard Range 1kN (100kg)

- ♦ Off centre loading compensation
- Simple cable tie or screw fixing
- Anti-slip rubber mat
- Removable loading plate
- Output rationalised to 2mV/V
- Lightweight aluminium alloy construction



The F323 is a compact, high accuracy low profile loadcell for measuring clutch pedal application forces. The loadcell is robust in construction with a maximum force range of 1kN (100kg). Its multi-hole fixing allows simple attachment to any shape pedal using screws or cable ties. The low profile design maintains the clutch pedals ergonomic geometry. Low mass aluminium alloy construction reduces the mass influence upon the clutch pedal in dynamic testing.

Additional information can be found in the Pedal Force Engineering Application Sheet. If you require other force ranges the F304 or F322 may be suitable.

We are happy to design variants of this loadcell to meet your specific requirements. 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.		
F323CFR0KN	Com	pression, IP65, rationalised		

F323 Specification

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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	$1.5 \ge 10^7$	N/m
Overload - Safe	50	% RL
Overload - Ultimate	200	% RL
Sideload - Safe	100	% RL
Sealing	IP65	
Weight - Nominal (excluding cable)	80	g
The standard range is manufactured in aluminium alloy.		-

Notes

1. AL = Applied load.

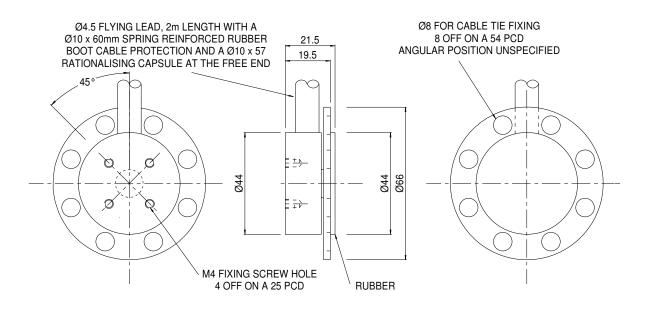
2. RL = Rated load.

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 + = RedSignal + = YellowExcitation - = BlueSignal - = 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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