



RoHS (E

FEATURES

- Interchangeable
- Low Noise
- Robust: High Over-Range Capability
- High Reliability
- Low Deflection
- Low Off Center Errors
- Fast Response Time
- Long Cycle Life Expectancy

APPLICATIONS

- Batch Weighing
- Robotics End-Effectors
- Variable Force Control
- Load and Compression Sensing
- Assembly Line Force Measurement
- Pumps
- Hoist and Winch Loads
- Weighing

FC23 Compression Load Cell

SPECIFICATIONS

- 50 2000 lbf Ranges
- High Level or mV
- Interchangeable
- Compact Load Button Design
- Industry Standard Packaging
- CE Compliance

The **FC23** is a high compression force sensor that creates new markets previously unrealizable due to cost and performance constraints. The FC23 offers normalized zero and span for interchangeability and is thermally compensated for changes in zero and span with respect to temperature.

The FC23 incorporates MEAS' proprietary Microfused[™] technology which employs micromachined silicon piezoresistive strain gages fused with high temperature glass to a high performance stainless steel substrate. Microfused[™] technology eliminates agesensitive organic epoxies used in traditional load cell designs providing excellent long-term span and zero stability. The FC23 measures direct force and is therefore not subject to lead-die fatigue failure common with competitive designs which use a pressure capsule embedded within a silicone gel-filled cavity. Operating at very low strains, Microfused[™] technology provides an essentially unlimited cycle life expectancy, superior resolution, and high over-range capabilities.

The FC23 brings your OEM product to life whether you need thousands or millions of load cells annually. Although the standard model is ideal for a wide range of applications, our dedicated design team at our Load Cell Engineering Center is ready to provide you with custom designs for your OEM applications.

Please refer to models FS20 and FC22 for lower force applications.

STANDARD RANGES

Range	lbf
0 to 0050	•
0 to 0100	•
0 to 0250	•
0 to 0500	•
0 to 1000	•
0 to 2000	•

PERFORMANCE SPECIFICATIONS

Unless otherwise specified: Supply Voltage: 5.0V, Ambient Temperature: 25°C

MIN	ТҮР	MAX	UNITS	NOTES
95	100	105	mV	1
3.8	4.0	4.2	V	1
-20	0	20	mV	1
0.3	0.5	0.7	V	1
-1		1	%Span	2
	3.0		kΩ	
	2.2		kΩ	
-2.5	±1	2.5	%Span	3
-2.5	±1	2.5	%Span	3
2	5	10	V	1
4.5	5	5.5	V	1
	1.0		ms	
	±1		%Span	
		2.5X	Rated	
0		50	°C	
-40		+85	°C	
-40		+85	°C	
50			MΩ	
		0.05	mm	
0		90	%RH	
	MIN 95 3.8 -20 0.3 -1 -2.5 -2.5 2 4.5 2 4.5	MINTYP95100 3.8 4.0 -20 0 0.3 0.5 -1 3.0 2.2 2.2 -2.5 ± 1 -2.5 ± 1 2 5 4.5 5 4.5 5 1.0 ± 1 2 5 4.5 5 -40 -40 50 -40	MINTYPMAX951001053.84.04.2-200200.30.50.7-113.02.2-2.5 ± 1 2.5-2.5 ± 1 2.525104.555.51.0 ± 1 2.5X050-40 $+85$ -40 $+85$ 50 -0.05	MINTYPMAXUNITS95100105mV3.84.04.2V-20020mV-20020mV0.30.50.7V-11%Span2.11%Span2.2kΩ-2.5±12.54.55.5V2510V4.555.5V1.0ms±1%Span25.0°C%Span4.550°C6-40+85°C-40+85°C50MΩ0.05mm

For custom configurations, consult factory.

Notes

1. Ratiometric to supply.

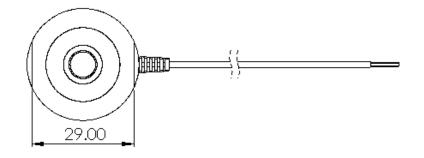
2. Best fit straight line.

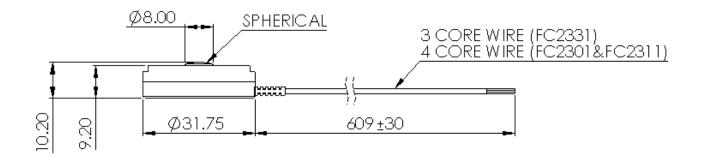
3. Maximum temperature error over compensated range with respect to 25°C.

CE Compliance

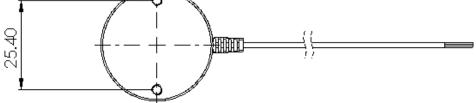
IEC61000-4-2: [4kV/ 4 kV (Air/Contact)] IEC61000-4-3: (3 V/m)

DIMENSIONS

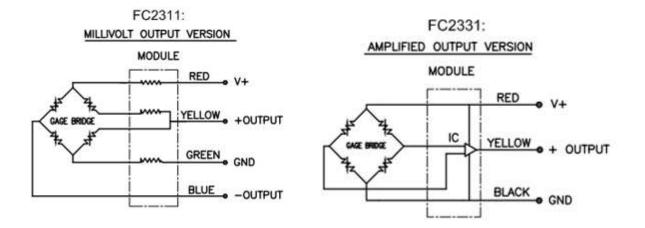




M3 T 5.0 MOUNTING SCREW HOLE ISO 68-1973

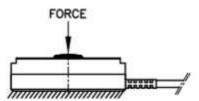


CONNECTIONS

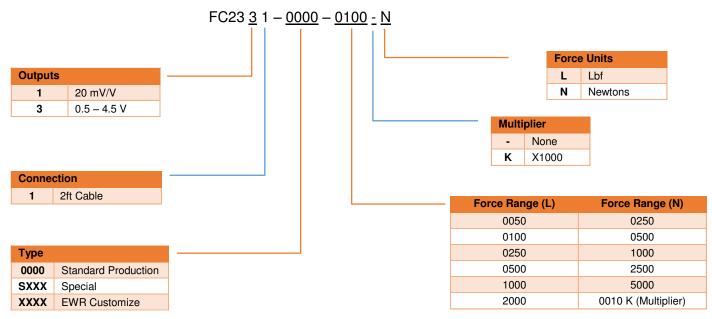


WIRE NOTE:

P/N	WIRE CONNECTIONS		
FC2311	4 CORE WIRE (AWG32 125°C, 300V) YELLOW: +OUTPUT BLUE: -OUTPUT RED: V+ GREEN: GND		
FC2331	3 CORE WIRE (AWG32 125°C, 300V) RED: V+ YELLOW: +OUTPUT BLACK: GND		



ORDERING INFORMATION



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