

FEATURES

- Same housing for all ranges
- Mechanical stops in option
- Optional:
 Tension Pull Plate
 Load Button
- Integrated amplifier optional

APPLICATIONS

- Process control equipment
- Regulation load cell
- Robotics and effectors
- Laboratory and Research
- Dedicated to low and medium quantity volume

FN3050

Load Cell Tension and Compression

SPECIFICATIONS

- Range from 100 N to 20000 N (22.5 lbf to 4496 lbf)
- Accuracy: 0.1% F.S.
- Stainless steel or aluminum
- Connector or cable gland output
- Build in amplifier per request

The rugged **FN3050** load cell is highly suited for process industry and test bench applications. Dimensions are identical in standard ranges from 0-100 N to 0-20000 N so during testing the sensor can be interchanged for another of a different range without mechanical modifications. The sensor design minimizes transverse effects. For high-level output, a model with integrated amplifier is available as are numerous other options.

With a long-standing experience as a designer and manufacturer of sensors, TE CONNECTIVITY often works with customers to design or customize sensors for specific uses and testing environments.

To meet your needs, we also offer extensive turnkey systems. The matched components (sensor, power, amplifier and digital display) are formatted, calibrated and ready for immediate use.

On request, Instruction documents can be provided to ease the selection and use of our sensors and provide helpful tips.

CHARACTERISTICS (typical values at temperature 23°C)

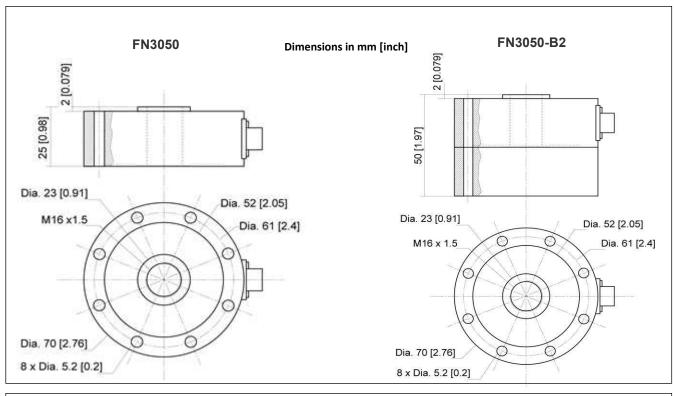
Ranges (FS) (N)	100	200	500	1k	2k	5k	10k	20k	
Ranges (lbf)	22.48	44.96	112.4	224.8	449.6	1124	2248	4496	
Material	Aluminium			Stainless Steel		Aluminium	Stainless Steel		
Stiffness (N/m)	1.2E+06	2.7E+06	9.9E+06	1.7E+07	3.9E+07	2.3E+08	5.4E+08	8.7E+08	
Stiffness (lbf/ft)	8.4E+04	1.8E+05	6.8E+05	1.2E+06	2.7E+06	1.6E+07	3.7E+07	5.9E+07	
Linearity & hyteresis	< ±0.3% FS		-						
Linearity	-		< ±0.1% FS						
Hyteresis	-		< ±0.1% FS						

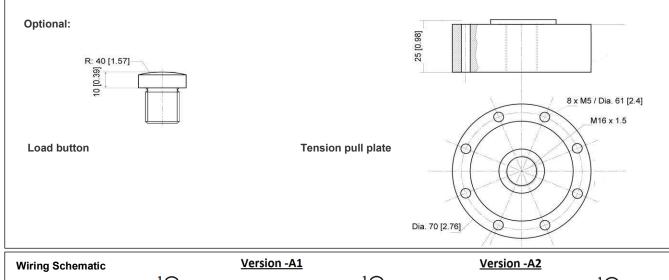
Version	Standard	A1	A2		
Power supply	10Vdc	10Vdc à 30Vdc	±12Vdc à ±18Vdc		
Sensitivity (FSO)	±15mV	±2Vdc ±0.2V	±5Vdc ±0.25V		
Offset	<±1 mV	2.5Vdc ±0.2V	0V ±0.25V		
Input Impedance / Consumption	700 ohms	<30mA			
Output Impedance	700 ohms	1000 ohms			
Overrange Without Damage	1.5x FS				
Overrange Without Destruction	3x FS				
Operating Temperature Range (OTR)	-20°C to +80°C (-4°F to 176°F)				
Compensated Temperature Range (CTR)	0°C to +60°C (32°F to 140°F)				
Thermal Zero Shift in CTR	< 0.5% FS/50°C				
Thermal Sensitivity Shift in CTR	< 1%/50°C				
Insulation	> 1000 Mohms				
Protection Index	IP50				

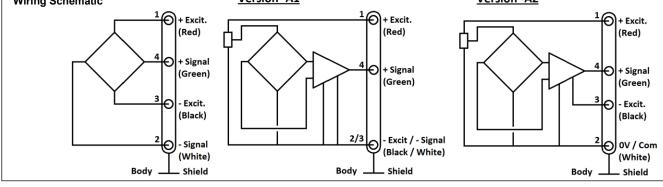
Notes

- 1. Signal goes positive in tension with standard wiring configuration. Other signal output on request
- 2. Electrical Termination: Connector output including mate
- 3. Body in stainless steel or aluminium alloy depending on F.S. 4. Output impedance < 100Ω on request
- 5. CE conformance according to EN 61010-1, EN 50081-1, EN 50082-1

DIMENSIONS & WIRING SCHEMATIC (IN METRIC AND IMPERIAL)



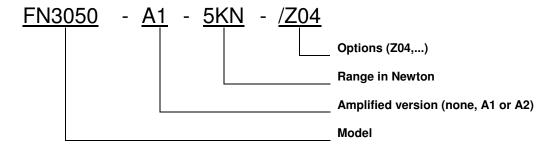




OPTIONS

B2	Mechanical stops (compression only, models ≤2000 N) Overrange Without Damage 10x FS
Z04	CTR -40°C to +90°C (-40°F to 194°F) (OTR -40°C to +90°C (-40°F to 194°F))
Z35	CTR +20°C to +120°C (68°F to 248°F) (OTR -20°C to +120°C (-4°F to 248°F))
Z36	CTR +20 to +150°C (68°F to 302°F) (OTR -20°C to +150°C(-4°F to 302°F)) - not available with A1/A2

ORDERING INFO



SUPPLIED ACCESSOIRES

EFMX-4M: mating plug Jaeger 530-801-006 with clamp 530-841-006 standard and Z04 **EFMX-4H**: mating plug Jaeger 530-804-006 with clamp 530-844-006 for Z35 or Z36 option

RECOMMENDED ACCESSORIES

OPTEH004: Hemispherical load button
OPTFF006: Tension pull plate





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