

The FSN 3020 is a miniature, high-precision S-beam load cell designed for tension and compression measurements in space-constrained applications. Featuring a compact, lightweight footprint and built-in overload protection, it safeguards internal strain gauges from sudden force spikes. Available in capacities from 2 lb to 100 lb with an IP40 environmental rating, the FSN 3020 is ideal for automated assembly lines, medical weighing systems, and delicate force testing in controlled indoor environments.



FEATURES

- Capacities from 2 to 100lb
- High accuracy
- Environmental protection IP40
- Miniature size
- Built in overload protection
- Tension and compression device

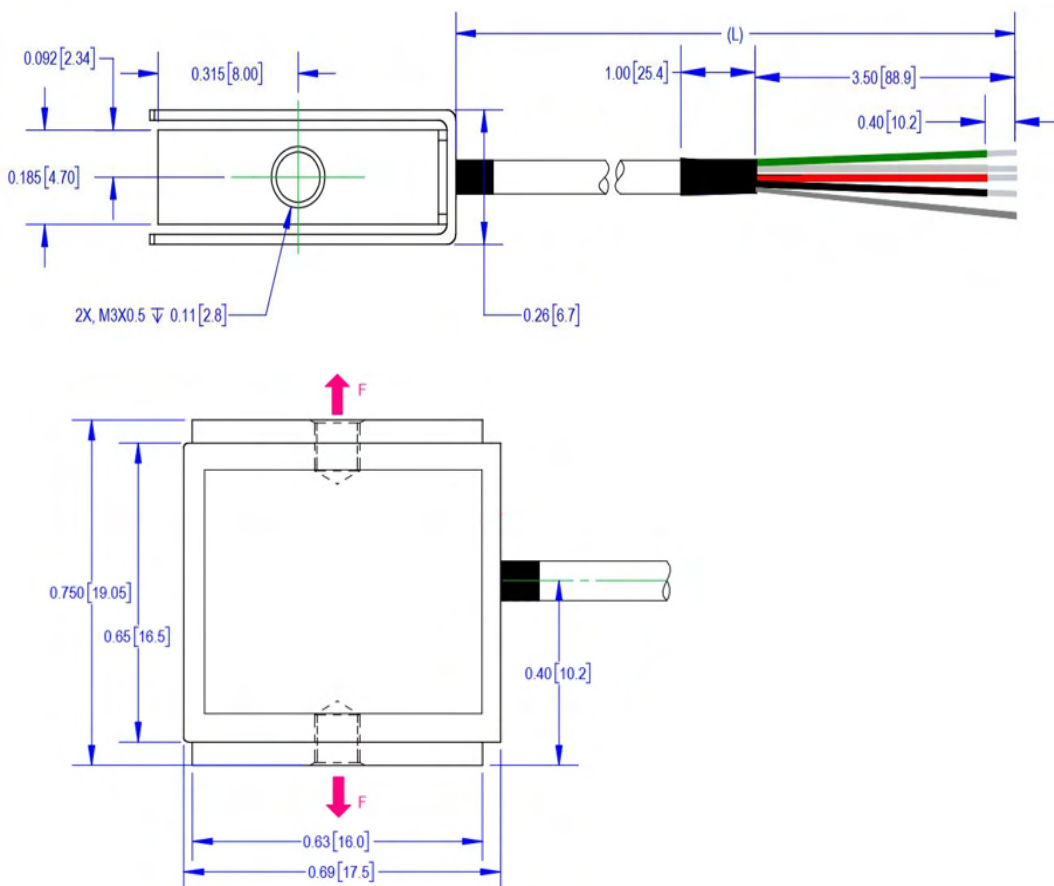
APPLICATIONS

- High volume, tight fitting OEM applications
- Machine monitoring and control
- Packaging machinery
- Assembly machinery
- General test and measurement
- End of line test equipment
- Medical Bag weighing

OPTIONS

- Custom cable length

OUTLINE DIMENSIONS





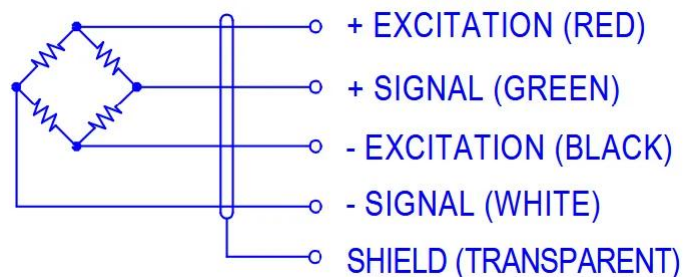
SPECIFICATIONS

Model	FSN	
Capacities	lb	2, 5, 10, 25, 50, 100
Full Scale Output (FS)	mV/V	2.0±20%
Non-Linearity (2 lb)	%FS	≤±0.3
Non-Linearity (5-100 lb)	%FS	≤±0.1
Hysteresis (2 lb)	%FS	≤±0.3
Hysteresis (5-100 lb)	%FS	≤±0.1
Non-Repeatability	%FS	≤±0.05
Zero Balance	%FS	≤±5
TEMPERATURE RANGE		
Compensated	°C	-10 ~ +40
Operating	°C	-20 ~ +65
TERMINAL RESISTANCE		
Input	Ω	350±5
Output	Ω	350±5
Excitation Voltage	VDC	5 ... 15
Insulation Resistance @50VDC	MΩ	≥5000
Safe Overload Limit	%FS	150
Ultimate Load	%FS	200
Cable Length (L)	ft	5
Cable Type	34 AWG 4 conductor outer braided shielded cable	
Seal Type	IP40	
Element Material	Aluminum or Stainless Steel	

PART NUMBERS

Capacity (lb)	G4 Part Number	Element Material
2	3020-002-00	2024-T351 Aluminum
5	3020-003-00	
10	3020-004-00	
25	3021-000-00	Stainless Steel
50	3021-001-00	
100	3021-002-00	

WIRING DIAGRAM



Dimensions and specifications subject to change without notice