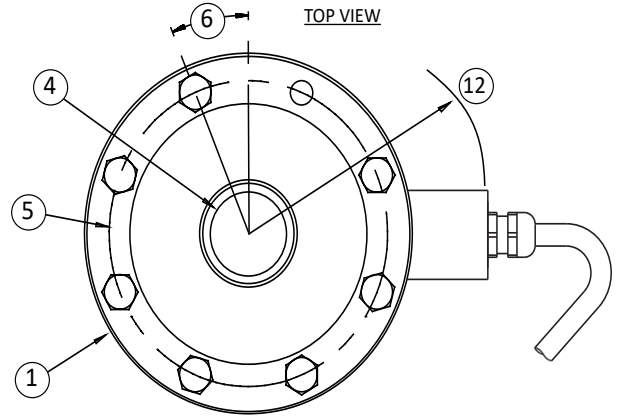


FEATURES & BENEFITS

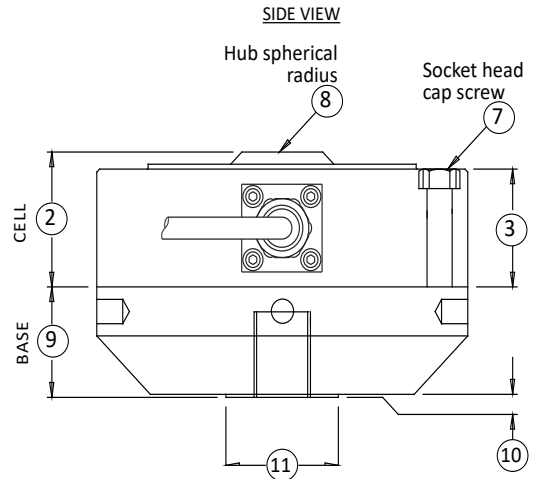
- Capacities from 2.5K to 100K lbf (11.1 to 445 kN)
- Proprietary Interface temperature compensated strain gages
- Hermetically sealed cell
- Performance to 0.04%
- Compact size
- High 4 mV/V output
- Eccentric load compensated
- 0.0008%/°F temp. effect on output
- Low deflection
- Shunt calibration
- Barometric compensation



STANDARD CONFIGURATION



Model 3221BBE-50K (Shown)



DIMENSIONS

| See Drawing | MODEL | | | | | |
|-------------|--------------------|------------------|--------------------|-------------|--------------------|-------------|
| | 3211 | | 3221 | | 3231 | |
| | CAPACITY | | | | | |
| | US (lbf) | Metric (kN) | US (lbf) | Metric (kN) | US (lbf) | Metric (kN) |
| | 2.5K, 5K, 10K | 11.1, 22.2, 44.5 | 25K, 50K | 111, 222 | 100K | 445 |
| | in | mm | in | mm | in | mm |
| (1) | 4.13 | 104.9 | 4.75 | 120.7 | 7.50 | 203.2 |
| (2) | 1.38 | 35.1 | 1.75 | 44.4 | 2.25 | 57.2 |
| (3) | 1.20 | 30.5 | 1.58 | 40.1 | 1.95 | 49.5 |
| (4) | 0.90 | 22.9 | 1.19 | 30.2 | 2.67 | 67.8 |
| (5) | 3.50 | 88.9 | 4.00 | 101.6 | 6.25 | 158.8 |
| (6) | 22.5° | | 45.0° | | 15.0° | |
| (7) | ¼-28 x 1¼ 8 places | | ⅝-24 x 1¼ 4 places | | ⅝-20 x 2.12 places | |
| (8) | 6.00 | 152.4 | 6.00 | 152.4 | 8.00 | 203.2 |
| (9) | 1.13 | 28.7 | 1.25 | 31.8 | 2.00 | 50.8 |
| (10) | 0.03 | 0.8 | 0.03 | 0.8 | 0.03 | 0.8 |
| (11) | 1.25 | 31.8 | 2.00 | 50.8 | 3.00 | 76.2 |
| (12) | 4.80 | 121.9 | 5.61 | 142.5 | 5.30 | 134.6 |

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SPECIFICATIONS

| PARAMETERS | | MODEL | | | | |
|-----------------------------------|-------------|-----------------|-------------|-------------|-------------|-------------|
| | | 3211 | 3211 | 3221 | 3221 | 3231 |
| | | CAPACITY | | | | |
| Measuring Range | US (lbf) | 2.5K, 5K | 10K | 25K | 50K | 100K |
| | Metric (kN) | 11.1, 22.2 | 44.5 | 111 | 222 | 445 |
| ACCURACY - (MAX ERROR) | | | | | | |
| Static Error Band – %FS | | ±0.04 | ±0.04 | ±0.04 | ±0.04 | ±0.04 |
| Nonlinearity – %FS | | ±0.05 | ±0.05 | ±0.05 | ±0.05 | ±0.05 |
| Hysteresis – %FS | | ±0.06 | ±0.06 | ±0.06 | ±0.06 | ±0.06 |
| Nonrepeatability – %RO | | ±0.01 | ±0.01 | ±0.01 | ±0.01 | ±0.01 |
| Creep, 20 min – % ±0.025 | | ±0.025 | ±0.025 | ±0.025 | ±0.025 | ±0.025 |
| Side Load Sensitivity – % | | ±0.25 | ±0.25 | ±0.25 | ±0.25 | ±0.25 |
| Eccentric Load Sensitivity – % | in | ±0.25 | ±0.25 | ±0.25 | ±0.25 | ±0.25 |
| | mm | ±6.4 | ±6.4 | ±6.4 | ±6.4 | ±6.4 |
| TEMPERATURE | | | | | | |
| Compensated Range | °F | +15 to +115 | +15 to +115 | +15 to +115 | +15 to +115 | +15 to +115 |
| | °C | -10 to +45 | -10 to +45 | -10 to +45 | -10 to +45 | -10 to +45 |
| Operating Range | °F | -65 to +200 | -65 to +200 | -65 to +200 | -65 to +200 | -65 to +200 |
| | °C | -55 to +90 | -55 to +90 | -55 to +90 | -55 to +90 | -55 to +90 |
| Effect on Zero – %RO / °F MAX | | ±0.0008 | ±0.0008 | ±0.0008 | ±0.0008 | ±0.0008 |
| Effect on Output – %RO / °F MAX | | ±0.0008 | ±0.0008 | ±0.0008 | ±0.0008 | ±0.0008 |
| ELECTRICAL | | | | | | |
| Rated Output – mV/V (Nominal) | | 2.0, 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Excitation Voltage – VDC MAX | | 20 | 20 | 20 | 20 | 20 |
| Bridge Resistance – Ohm (Nominal) | | 350 | 350 | 350 | 350 | 350 |
| Zero Balance – %RO | | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±1.0 |
| Insulation Resistance – Megohm | | 5000 | 5000 | 5000 | 5000 | 5000 |
| MECHANICAL | | | | | | |
| Safe Overload – %CAP | | ±150 | ±150 | ±150 | ±150 | ±150 |
| Deflection @ RO | in | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 |
| | mm | 0.051 | 0.051 | 0.051 | 0.051 | 0.076 |
| Optional Base – P/N | | B302 | B302 | B306 | B306 | B304 |
| Natural Frequency – kHz | | 6.1 | 8.6 | 8.2 | 11.7 | 7.6 |
| Weight | lbs | 3.3 | 3.3 | 6.8 | 6.8 | 13.5 |
| | kg | 1.5 | 1.5 | 3.08 | 3.08 | 6.12 |
| Calibration | | Compression | | | | |
| Material | | Stainless Steel | | | | |

OPTIONS

- Base (Recommended)
- Standardized Output
- Transducer Electronic Data Sheet (TEDS)
- Custom Calibration
- Multiple Bridge
- Special Threads
- Special Temperature Range
- Cable Length
- Add Connector To Cable

ACCESSORIES

- Instrumentation
- Loading Hardware

BASE



Model B32XX

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