FUTEK MODEL LSB210

SUBMERSIBLE S-BEAM JUNIOR LOAD CELL

Drawing Number: FI318

INCH [mm] R.O. = Rated Output

WIRING CODE
+Excitation -Excitation +Signal -Signal
RED BLACK GREEN WHITE

Shield FLOATING

0.38 [9.5]

0.32 [8.0]

PROTECTIVE COATING

Ø0.08 [Ø2.1] nom.

0.09 [2.3]

0.63 [16.0]

0.75 [19.1]

2 X #4-40-2B X
0.110 [2.8] DEEP
(M3X0.5 AVAILABLE)

-OUTPUT (COMPRESSION)

+OUTPUT (TENSION)

<table>
<thead>
<tr>
<th>STOCK NO.</th>
<th>CAPACITIES</th>
<th>RATED OUTPUT</th>
<th>NON-LINEARITY</th>
<th>HYSTERESIS</th>
<th>ZERO RETURN</th>
<th>CREEP 10 mins.</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>QSH00618</td>
<td>100g 1N</td>
<td>1 mV/V nom.</td>
<td>3% R.O.</td>
<td>5% R.O.</td>
<td>3% R.O.</td>
<td>12% R.O.</td>
<td>RED ALUMINUM</td>
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<tr>
<td>QSH00539</td>
<td>250g 5N</td>
<td>2 mV/V nom.</td>
<td>2% R.O.</td>
<td>3% R.O.</td>
<td>2% R.O.</td>
<td>3% R.O.</td>
<td>ANODIZED ALUMINUM</td>
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<tr>
<td>QSH00190</td>
<td>450g 5N</td>
<td>1.5 mV/V nom.</td>
<td>2% R.O.</td>
<td>3% R.O.</td>
<td>2% R.O.</td>
<td>3% R.O.</td>
<td>17-4PH S.S.</td>
</tr>
<tr>
<td>QSH00497</td>
<td>2N 8.9</td>
<td>2 mV/V nom.</td>
<td>1% R.O.</td>
<td>2% R.O.</td>
<td>1.5% R.O.</td>
<td>1% R.O.</td>
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<tr>
<td>QSH00540</td>
<td>5N 22.2</td>
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<tr>
<td>QSH00707</td>
<td>10N 44.5</td>
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<tr>
<td>QSH00706</td>
<td>25N 111</td>
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<td>QSH00256</td>
<td>50N 222</td>
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<tr>
<td>QSH00213</td>
<td>100N 445</td>
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</tbody>
</table>

* SENSOR STRUCTURE CAN HANDLE HIGH OVERLOADS BUT THREADS MAY LIMIT OVERLOAD AT HIGHER CAPACITY.

SPECIFICATIONS:

SAFE OVERLOAD*: 100% R.O.,
200% R.O. Tension Only (50 & 100 lb)

ZERO BALANCE: ±3% of R.O.

EXCITATION: 10 VDC MAX

BRIDGE RESISTANCE: 350 Ω nom.

TEMP. SHIFT ZERO: ±0.02% of R.O. /°F [0.04% of R.O. /°C]

TEMP. SHIFT SPAN: ±0.04% of LOAD /°F [0.08% of LOAD /°C]

COMPENSATED TEMP.: 60 to 160°F [15 to 72°C]

OPERATING TEMP.: 0 to 160°F [-17 to 72°C]

WEIGHT: 0.3 oz [9 g] (100g to 10 lb), 0.9 oz [26 g] (25 to 100 lb)

CABLE: #29 AWG, 4 Conductor, Spiral Shielded Silicone Cable, 5 ft [1.5 m] Long.