**product specifications**

**physical characteristics**

- **Length**: 14.7 cm (5.8”)
- **Height**: 17.0 cm (6.7”)
- **Width**: 7.6 cm (3.0”)
- **Weight**: 260 g (9.3 oz.), w/out cable

**optics system**

- **Nominal Scan Rate**: 20 to 35 scans per sec.
- **Wavelength**: (nominal) 670 nm
- **1517, 1519 Maximum Pitch**: ± 55°
- **1517, 1519 Maximum Skew**: ± 65°
- **1518 Maximum Pitch**: ± 55°
- **1518 Maximum Skew**: 15-45°
- **Operating current**: 135 mA nominal at 5V

**environment**

- **Storage**: -40° to 70°C (-40° to 158°F)
- **Humidity**: Non-condensing (5 to 95%)
- **Electrostatic Discharge**: 15 kV to any external surface
- **Drop Test**: 1.8 m (6') on concrete
- **Dust and Rain**: MIL-STD-810D, Sections 510.2

**Reliability**

- Designed for a MTBF of 10,000 hours in normal operating conditions

**Operating**

- **1517B05, 1518B02, 1519A06**
  -30°C to 50°C (-22° to 122°F)

- **1517B06, 1517B07, 1519B07**
  -20°C to 50°C (-11° to 122°F)

**regulatory agency approvals**

- **UL 1950**
- **CSA C22.2 #220-M1986**
- **TUV to IEC 950**
- **TUV (except 1517B07, 1518B02)**
- **FCC Class I Laser** (except 1517B07, 1518B02)
- **SOR/88-475 Class A**
- **CDRH Class II Laser** (except 1517B07, 1518B02)
- **CE marked**
- **TUV to IEC 825-1 Class II Laser** (except 1517B07, 1518B02)
- **CDRH Class IIIB Laser** (1517B07, 1518B02)
- **IEC 825-1 Class IIIB Laser** (1517B07, 1518B02)

**product configurations**

- **1517B05**
  - Near & Long Range (paper or retroreflective labels)

- **1517B06**
  - Extra Long Range (paper or retroreflective labels)

- **1517B07**
  - Extra Long Range (paper or retroreflective labels)

- **1518B02**
  - High Visibility

- **1519A06**
  - High Density

**Not 1517B07, 1518B02, TEC English equivalent labels required**

<table>
<thead>
<tr>
<th>BAR CODE SIZE</th>
<th>1517B05</th>
<th>1517B06</th>
<th>1517B07</th>
<th>1518B02</th>
<th>1519A06</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2 MIL</strong></td>
<td>10 TO 21 CM (4 TO 8.4&quot;)</td>
<td>70 TO 152 CM (2.8 TO 5.9&quot;)</td>
<td>70 TO 152 CM (2.8 TO 5.9&quot;)</td>
<td>0 TO 41 CM (0 TO 1.6&quot;)</td>
<td>0 TO 41 CM (0 TO 1.6&quot;)</td>
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<td><strong>5 MIL</strong></td>
<td>15 TO 25 CM (6 TO 10&quot;)</td>
<td>0 TO 18 CM (0 TO 7&quot;)</td>
<td>0 TO 18 CM (0 TO 7&quot;)</td>
<td>2.5 TO 12.5 CM (1 TO 5&quot;)</td>
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<tr>
<td><strong>7.5 MIL</strong></td>
<td>10 TO 81 CM (4 TO 32&quot;)</td>
<td>70 TO 152 CM (2.8 TO 5.9&quot;)</td>
<td>70 TO 152 CM (2.8 TO 5.9&quot;)</td>
<td>0 TO 41 CM (0 TO 1.6&quot;)</td>
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</tr>
<tr>
<td><strong>10 MIL</strong></td>
<td>20 TO 213 CM (8 TO 84&quot;)</td>
<td>40 TO 300 CM (1.6 TO 12&quot;)</td>
<td>70 TO 335 CM (2.8 TO 13&quot;)</td>
<td>0 TO 76 CM (0 TO 3&quot;)</td>
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<tr>
<td><strong>100 MIL</strong></td>
<td>76 TO 244 CM (30 TO 96&quot;)</td>
<td>120 TO 400 CM (4.7 TO 16&quot;)</td>
<td>122 TO 468 CM (4.8 TO 18&quot;)</td>
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<tr>
<td><strong>40 MIL</strong></td>
<td>61 TO 250 CM (24 TO 9.8&quot;)</td>
<td>90 TO 340 CM (3.5 TO 13&quot;)</td>
<td>140 TO 430 CM (5.5 TO 17&quot;)</td>
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<tr>
<td><strong>100 MIL</strong></td>
<td>102 TO 670 CM (40 TO 22&quot;)</td>
<td>180 TO 1070 CM (70 TO 42&quot;)</td>
<td>300 TO 1070 CM (12 TO 42&quot;)</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

**not 1517B07, 1518B02, TEC English equivalent labels required**

*1517’s can also be used with retroreflective labels.*