

# Optical Liquid Level Sensors D500D Series

# DURAKOOL

- Features:**
- \* M10 Threaded Body
  - \* Low cost
  - \* Compact size
  - \* High reliability
  - \* Wide range of commercial and industrial applications.



<b>Housing Style</b>	<b>D500 M10 Thread <sup>(1)</sup></b>
<b>Output Function</b>	<b>Digital (High or Low in Air) outputs</b>
<b>Repeatability</b>	<b>± 1mm</b>
<b>Hysteresis</b>	<b>1mm depending on liquid</b>
<b>Response time rising liquid</b>	<b>50µS</b>
<b>Response time falling liquid (ethanol)</b>	<b>&lt; 1 second</b>
<b>Supply Voltage (V<sub>s</sub>)</b>	<b>5 to 12Vdc</b>
<b>Supply Current</b>	<b>15mA nominal</b>
<b>Sink / Source Current</b>	<b>10mA max</b>
<b>Temperature range: operating / (storage)</b>	<b>-25°C to +80°C (-30°C to +85°C)</b>
<b>Housing Material</b>	<b>Polysulphone UDEL 1700</b>
<b>Cable Length</b>	<b>200mm PTFE wires</b>
<b>Environmental</b>	<b>IP67 Rated</b>
<b>Thermal Testing</b>	<b>As per BS EN60068-2-33</b>
<b>Humidity</b>	<b>As per BS EN60068-2-30</b>
<b>Vibration</b>	<b>As per BS EN60068 Part S3: 1996</b>
<b>Mechanical Shock</b>	<b>As per BS EN60068-2-27 Part 2 Ea: 1987</b>
<b>Max. Pressure</b>	<b>7 bar</b>

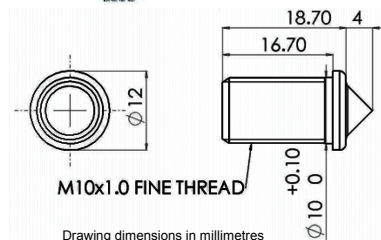
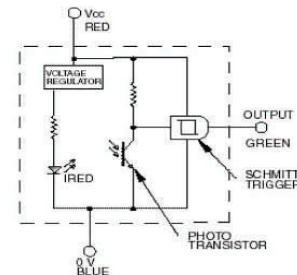
## Order Codes:

High in Air Sensors: Output Voltage in Liquid < 1Vdc; Output Voltage in Air is within V<sub>s</sub> - 0.5Vdc

3 Wire      D500D3  
4 Wire <sup>(2)</sup>    D500D4

Low in Air Sensors: Output Voltage in Liquid is within V<sub>s</sub> - 0.5VDC; Output Voltage in Air < 1Vdc

3 Wire      D500D3L  
4 Wire <sup>(2)</sup>    D500D4L



(1) Plastic Nut LLPK3 must be ordered separately.  
(2) In certain applications (when used in certain liquids or emulsions and in heavily condensing applications), it may be necessary to "tune" the sensor's operation using a 4th wire connected directly to the LED. This requires the installer to select a suitable current limiting resistor—

Drawing dimensions in millimetres



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**American Electronic Components Inc.,**  
1101 Lafayette Street, Elkhart, Indiana. USA  
Tel: +1-574-295-6330 Fax: +1-574-293-8013  
Email: [sales@aecensors.com](mailto:sales@aecensors.com)  
<http://www.aecensors.com>