

Optical Liquid Level Sensors D500D Series



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



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

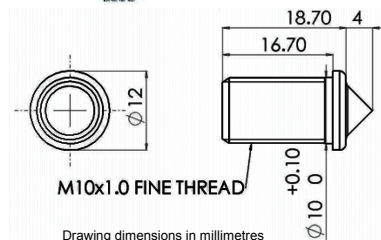
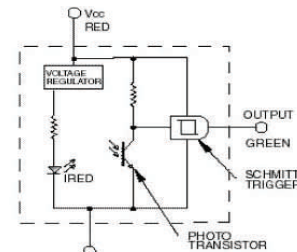
Order Codes:

High in Air Sensors: Output Voltage in Liquid < 1Vdc; Output Voltage in Air is within V_s - 0.5Vdc

3 Wire D500D3
4 Wire ⁽²⁾ D500D4

Low in Air Sensors: Output Voltage in Liquid is within V_s - 0.5VDC; Output Voltage in Air < 1Vdc

3 Wire D500D3L
4 Wire ⁽²⁾ 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—



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