ULTRASONIC LEVEL SWITCH

LVCN1700 Series

- Offered in 3 Ranges From 3 to 8 m (9.8 to 26.2')
- Configuration is Simple Via Integral Pushbutton Display Module
- Three Programmable Relays for Switch, Pump Control and Fail-Safety
- LCD Display Indicates Level Height and Relay Status
- Narrow 5 or 7.6 cm (2 or 3") Beam Width and Short 4" or 8" Dead Band
- PVDF Transducer and NEMA 4X (IP65) Polycarbonate Enclosure
- Automatic Temperature Compensation for Accurate Measurement

OMEGA's LVCN1700 ultrasonic level sensor provides level detection up to 8 m (26.2') with 3 programmable relays for level switch or level control functions, and is configured via the integral pushbutton display module. Each relay can be configured on a single set-point (high level alarm or low level alarm) or latched on two set points for automatic fill or empty in simplex (one pump or valve), duplex (two pumps) or triplex (three pumps) level control modes with selectable time delay and fail-safe logic. The embedded level controller can lower cost by replacing external control hardware. This non-contact liquid level sensor is ideally suited for corrosive, sticky or dirty liquids, and is broadly selected for pump lift station, sump and day tank level applications.

SPECIFICATIONS

- Range:
  - LVCN1710: 10 cm to 3 m (4" to 9.8')
  - LVCN1718: 20 cm to 5.5 m (8" to 18')
  - LVCN1726: 20 cm to 8 m (8" to 26.2')
- Repeatability: 6.35 mm (0.25")
- Dead Band:
  - LVCN1710: 10 cm (4")
  - LVCN1718/26: 20 cm (8")
- Beam Width:
  - LVCN1710: 5 cm (2")
  - LVCN1718/26: 7.6 cm (3")
- Configuration: Pushbutton
- Memory: Non-volatile
- Display Type: LCD, 6-digit
- Display Units: Inch, cm, percent, feet or meter
- LCD Indication: Level and relay status
- Supply Voltage: 95 to 250 Vac
- Power: 20 W @ 120 Vac
- Contact Type: (3) SPDT relays
- Contact Rating: 60 VA, 1A maximum
- Contact Fail-Safe: Open, close or hold last
- Process Temp: -20 to 60°C (-7 to 140°F)
- Temp Comp: Automatic
- Ambient Temp: -40 to 71°C (-40 to 160°F)
- Pressure: Maximum Working Pressure = 30 psi (2 bar)
- Enclosure Rating: NEMA 4X (IP65)
- Material: Polycarbonate
- Hardware: Brass and stainless
- Vent: Water tight membrane
- Trans Material: PVDF
- Conduit Entrance: Dual, 1/2 NPT
- Process Mount:
  - LVCN1710: 1 NPT (1" G optional)
  - LVCN1718/26: 2 NPT (2" G optional)
- Mount Gasket: FKM
- Classification: General purpose
- Compliance: RoHS

To Order Visit omega.com/lvcn1700 for Pricing and Details

<table>
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<tr>
<th>Model No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>LVCN1710</td>
<td>Ultrasonic level controller 3 SPDT relays, range 3 m (9.8')</td>
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<tr>
<td>LVCN1718</td>
<td>Ultrasonic level controller 3 SPDT relays, range 5.5 m (18')</td>
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<tr>
<td>LVCN1726</td>
<td>Ultrasonic level controller 3 SPDT relays, range 8 m (26.2')</td>
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<tr>
<td>LVM31</td>
<td>Mounting reducer 1 to 2 NPT for LVCN1710</td>
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Comes complete with mounting gasket and operator's manual.
For units with G threads add "-G" to model number, for additional cost.
Ordering Example: LVCN1710, Ultrasonic level controller with 3 SPDT relays and 3 m (9.8') range.