

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.



LVCN1710.

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

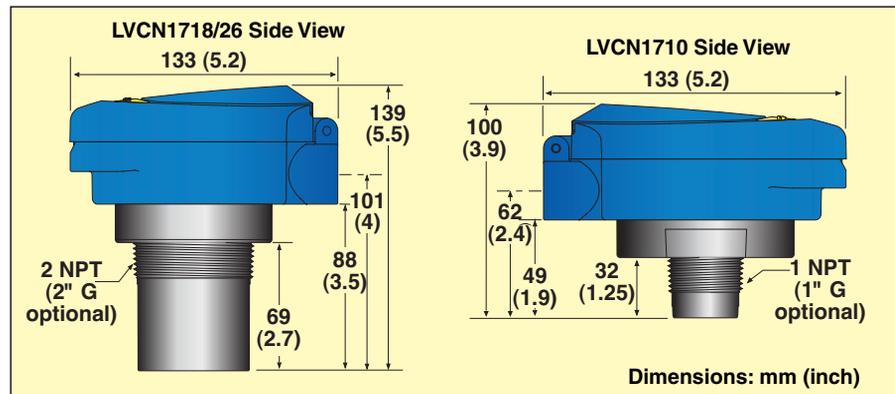
Process Mount:

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

Model No.	Description
LVCN1710	Ultrasonic level controller 3 SPDT relays, range 3 m (9.8')
LVCN1718	Ultrasonic level controller 3 SPDT relays, range 5.5 m (18')
LVCN1726	Ultrasonic level controller 3 SPDT relays, range 8 m (26.2')
LVM31	Mounting reducer 1 to 2 NPT for LVCN1710

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.