NON-CONTACT ULTRASONIC LEVEL CONTROLLER

LVCN700 Series



- ✓ Target Calibration Via Push Buttons
- √ 7.6 cm (3") Beam
 Diameter for Restricted
 Space Applications
- 5 cm (2") Dead Band Optimizes Filling Capacity of Small Vessels
- ✓ Fail-Safe Intelligence with Diagnostic Feedback for Easy Troubleshooting
- ✓ PC/ABS Enclosure
 Rated NEMA 4X (IP65)
 with Rugged Kynar®
 Transducer

The LVCN700 Series general purpose ultrasonic switch provides non-contact level detection from up to 8 m (26') away, and has 3 relay outputs. Each relay can be configured on a single setpoint alarm, 2 latched setpoints for automatic fill or empty including lead-lag, or 2 independent setpoints for out-of-bounds alarms. In addition, relays 1 and 2 can be interlocked for relay alternation or duplex operation. The switch is well suited for a broad range of corrosive, waste and slurrytype media, and is broadly selected for atmospheric day tank, pump lift station and waste sump applications.

SPECIFICATIONS

Range:

LVCN704: 5 cm to 1.2 m (2" to 4')
LVCN709: 10 cm to 3 m (4" to 9.8')
LVCN716: 10 cm to 5 m (4" to 16.4')
LVCN726: 20 cm to 8 m (8" to 26.2')
Repeatability: 6 mm (0.25")
Adjustability: Over entire range
Hysterysis (Single Setpoint):
LVCN704/709: 1.3 cm (0.5")

LVCN716/726: 2.5 cm (1") **Beam Width:**

LVCN704/709: 5.1 cm (2") dia. **LVCN716/726:** 7.6 cm (3") dia.



LVCN704: 5 cm (2") LVCN709/716: 10 cm (4") LVCN726: 20 cm (8")

LED Indication: Power, relay and

echo status

Calibration: Target, pushbutton

Memory: Non-volatile

Supply Voltage: 95 to 250 Vac, -DC Model Numbers: 12 to 28 Vdc Consumption: 20 W max, AC power,

100 mA @ 24 Vdc

Contact Type: (3) SPDT relays

Contact Rating: 60 VA

Contact Logic: Single Point: Alarm 2-Point: Latching or out-of-bounds alarms

Relay Interlock: Relays 1 and 2 only;

alternation or duplexing

Contact Fail-Safety: De-energizes

during echo signal loss **Process Temp:** -20 to 60°C

(-4 to 140°F)

Temperature Comp: Automatic Electronics Temperature: -40 to 71°C

(-40 to 160°F)

Pressure: 30 psi (2 bar) @ 25°C, derated @ 1.667 psi (0.113 bar) per °C

LVCN704, shown

smaller than actual size

above 25°C

Enclosure Rating: NEMA 4X (IP65) Enclosure Vent: Watertight membrane Enclosure Material: PC/ABS FR

Transducer Material: PVDF

Process Mount:

LVCN704/709: 1 NPT or 1" G LVCN716/726: 2 NPT or 2" G Mountable Gasket: FKM Conduit Entrance: Dual, ½ NPT Classification: General purpose CE Compliance: EN 61326 EMC

(pending) EN 61010 safety

To Order	
Model No.	Description
LVCN704	Level switch—1.2 m (4') range, 1 NPT
LVCN704G	Level switch—1.2 m (4') range, 1" straight threads
LVCN709	Level switch—3 m (9.8') range, 1 NPT
LVCN709G	Level switch—3 m (9.8') range, 1" straight threads
LVCN716	Level switch—5 m (16.4') range, 2 NPT
LVCN716G	Level switch—5 m (16.4') range, 2" straight threads
LVCN726	Level switch—8 m (26.2') range, 2 NPT
LVCN726G	Level switch—8 m (26.2') range, 2" straight threads

Accessory

Model No.	Description
LVM-30	Side mount bracket, 2 NPT

Comes complete with operator's manual.

For 12 to 28 Vdc power add suffix "-DC" to the model number for reduced cost. Ordering Examples: LVCN709, level switch, 3 m (9.8') range, 95 to 250 Vac, 1 NPT. LVCN704, level switch, 1.2 m (4') range, 95 to 250 Vac power, 1 NPT.