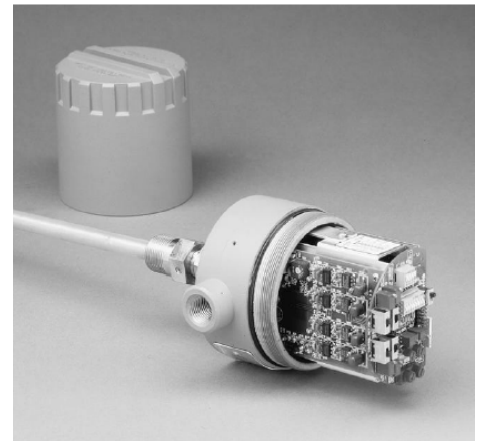


## Model 16L Multi-Point Level Detection Switch

- **Two Selectable Operating Modes.**  
“Point Control” allows independent alarm/control of up to **four** level points. “Zone Control” dedicates two relays to define a zone for industrial sump pump control, and two relays for high and low alarm or additional control functions.
- **Anti-coat Circuitry.**  
Enhanced anti-coat circuitry permits use in most liquids, granulars, foams, pastes And slurries—especially process media that tends to form a coating on the level probe.
- **Easy Single-point Span Calibration.**  
A bi-color LED indicates “below level”, “at level” and “above level” status to simplify calibration.
- **Adjustable Time Delay.**  
As a standard feature, the model 16L relays are selectable to operate in a delay actuation mode, adjustable from 0 to 30 seconds, for use in turbulent applications.
- **High Level and Low Level Fail-Safe Operating Modes.**  
Each relay can be operated in one of these fail safe operating modes to prevent vessel overfill, or pump cavitation during power failure



### Specifications

**Operational:**

Measurement.....RF impedance  
 Setpoint Range.....20 to 5000pF  
 Temperature Range.....-40 to +71°C (-40 to 160°F)  
 0-100%relative humidity,  
 non- Condensing  
 Protection.....RFI, EMI and designed to  
 Pass IEC-801-2 static  
 discharge test  
 Spark Protection..... 100amps  
 Power Requirements..... 100-137.5VAC, 50/60Hz.,  
 195-275VAC, 50/60 Hz.,  
 or 24VDC;8.5VA nominal

**Relay Function:**

Operating Modes..... Point control (four points)  
 or zone control,  
 field selectable  
 Output: Relays A and D...DPDT, two Form C  
 contacts, 5A resistive  
 @115/230 VAC and 30VDC

**Hazardous Area Certification:**

FM and CSA (Optional).....Explosion proof for  
 Div.1;for classifications and groups,

**Performance:**

Sensitivity..... 0.1% of span

Relays B and C.....SPDT, two Form C  
 contacts, 5A resistive @  
 115/230 VAC and 30 VDC

**Deadband:**

Relays A, B, and D.....Fixed at 1%of full scale  
 Relays C.....Adjustable, 1-75%  
 of full scale  
 Time Delay (all relays).....Adjustable 0 to 30 seconds  
 Field-selectable to delay  
 on pull-In,drop-out,or both  
 ways  
 Fail-Safe (all relays).....Low or high level,  
 field selectable  
 Phasing (all relays).....Field selectable to operate  
 relays in response to  
 increasing level (high  
 phase) or decreasing  
 Level (Low phase)

Stability..... 0.01% of span/24hrs.  
 non-cumulative

Temperature Drift..... 0.03% of span  
 per °C maximum

Repeatability.....0.1% of span

Response Time..... 100 milliseconds

**Mechanical:**

Enclosure.....Cast aluminum with urethane finish  
NEMA 4,7,and 9(weatherproof, hosedown,  
dust and Vapor explosion proof)  
Net Weight....3.6lbs. (1.63kg) approximately

**Ordering Information :** \_\_\_\_\_

<b>MODEL NUMBER</b>	
16L RF electronic multi-point level detection switch with four relays/set points.	
<b>LINE VOLTAGE</b>	
1	115 Volts, 50/60 Hz
2	230 Volts, 50/60 Hz (single-fused)
4	24 VDC
6	230 Volts, 50/60 Hz. (dual-fused)
N	Standard Instrument
K	Special Instrument

**16L** Product Number  
Choose one from each category.

**Dimensions & Mounting**  
*Inches [mm]*

