



## LEVEL SENSING/MONITORING, OR CONTROL SYSTEMS

### SYSTEM OVERVIEW:

A pre-wired system, to sense level of media in a bin, hopper, or stacked height of materials, and display that info in a digital readout. Digital display is programmable and scalable, enabling readout in desired units (e.g., feet, meters, percentage). Standard system includes sensor, digital readout/display, power supply, enclosure, and intra-connecting cables.

### *Options include:*

Four (4) programmable set-points, each with a dedicated, Form A SPST relay output.

Three-tier LED visual indication representative of the degree of fill or set-point achievement, as well as an audible alarm corresponding to fourth set-point.

Wireless remote signaling (stand-alone, no software required)

Wireless MDC / Machine Data Collection System; software-based (free software); data-log operational status of up to 50 machines; optional counting and wireless remote control capabilities; e-mail / smartphone notification of events.

### SPECIFICATIONS (standard model):

*Input power (system):* 110 vac @ 0.040 amps (nominal)

*Media sensed:* liquids, solids, slurries; discrete parts

*Sensor:* 0-10 vdc or 4-20 ma analog output (user specified); analog span selectable, GE Ultem Nema 4X/IP67 Housing; quick-disconnect type with mating cable (price length dependent)

*Sensor ranges:* Max range 10 inches; 1 meter; 2 meter; or 8 meters (price: range dependent)

*Digital Readout:* 5-digit; red LED; 0.56 inches height; variable intensity; scalable; panel mount sealed bezel (NEMA 4X/IP65); 4 programmable set-points with dedicated relay outputs; each relay: s.p.s.t; contacts rated 250vac @ 3 amps

*Power supply (for sensor & signaling device):* 24 vdc @ 0.6 amps; regulated

*Enclosure:* Non-metallic (FRP); hinged; stainless hinge & latches; Nema 4/4X; IP67; 9 inches wide x 11 inches high x 7 inches deep (external dimensions); with integral through-hole flanges for wall mounting.

*Signaling option:* LED flat sign signaling device, integral visual & audible, 220 mm high x 62 mm wide x 30.5 mm deep (90 mm at base only); 3-tier (R,Y,G; dip-switch selectable), 1 audible alarm, 85 db, IP65.

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## **SENSING & CONTROL SYSTEMS NOMENCLATURE:**

**Part number example: LEV - 1 M - 2 - 0**

### **System function:**

**LEV: Level Sensing**

**CTG: Counting**

**RAT: Rate/speed/RPM**

**ROL: Roll Diameter**

### **Sensing ranges:**

**1F: up to 10 inches**

**1M: up to 1 meter (39 inches)**

**8M: up to 8 meters (26 feet)**

### **System Level:**

**1: Basic system, monitoring only; no outputs**

**2: Monitoring + [4] programmable set-points & [4] relay outputs**

**3: (Level 2) + 3-tier LED visual + [1] audible or visual alarm signaling**

### **Wireless communications:**

**0: (none)**

**1: Wireless remote signaling; Reflect System modules**

**2: Wireless MDC/Machine Data Collection System\*; software-based**

**3: (Level 2) + Counting module**

**4: (Level 2) + Control module**

**5: (Level 2) + Counting module + Control module**

**\* MDC System has free software; up to 50 machines are data-logged; e-mail or smartphone notification of events.**