NOTES:
1. ALL NATIONAL AND LOCAL CODES AND REGULATIONS MUST BE ADHERED TO WHEN INSTALLING THE LEVEL SENSOR IN HAZARDOUS ENVIRONMENTS. SEAL ALL CONDUITS WITHIN 457 MM (18")
2. LOOP CABLE MUST BE 24 AWG TO 14 AWG (.511MM² TO 1.68MM²). SHIELDED TWISTED PAIR CABLE WITH SHIELD. CABLE CAPACITANCE MUST BE LESS THAN 30 UF PER FOOT (88 UF PER M). CABLE SHIELD IS CONNECTED TO SYSTEM GROUND IN NON-HAZARDOUS AREA. SEE INSTALLATION MANUAL FOR ADDITIONAL CABLE INFORMATION.
3. THE RESISTANCE BETWEEN EARTH GROUND AND THE INTRINSICALLY SAFE GROUND MUST BE LESS THAN 1 OHM.
4. THE TRANSDUCER FRAME SHALL BE GROUNDED TO EARTH GROUND DIRECTLY OR THROUGH THE EQUIPMENT ON WHICH IT IS MOUNTED.
5. CONTROL EQUIPMENT CONNECTED TO ASSOCIATED APPARATUS MUST NOT USE OR GENERATE MORE THAN 250 VMS ON VDC.
6. ASSOCIATED APPARATUS MANUFACTURER'S INSTALLATION DRAWING MUST BE FOLLOWED WHEN INSTALLING THIS EQUIPMENT
7. ONLY USE NEC (6-G) PM-APPROVED BARRIERS.
8. APPROVED LOOP SEPARATION METHODS:
   *RUN LOOPS IN SEPARATE CABLES
   *RUN LOOPS IN SEPARATE GROUNDED SHIELDS
9. ENTITY PARAMETERS EACH LOOP:
   \[ U_i = 28 \text{ VDC} \]
   \[ I_i = 120 \text{ mA} \]
   \[ C_i = 0 \mu F \]
   \[ L_i = 5 \mu H \]
   \[ P_i = 840 \text{ mW} \]
10. DUAL-CAVITY ENCLOSURES:
    CUSTOMER CONNECTIONS WILL BE MADE AT TERMINAL BLOCK ON POWER SIDE OF HOUSING (NOT TO TERMINAL BLOCK ON INTERCONNECT BOARD)
11. INSTALLATION SHOULD BE IN ACCORDANCE WITH ANSI/USA RP12.08.01 "INSTALLATION OF INTRINSICALLY SAFE SYSTEMS FOR HAZARDOUS (CLASSIFIED) LOCATIONS" AND THE NATIONAL ELECTRICAL CODE (ANSI/NFPA 70).
12. THE MAXIMUM PERMITTED AMBIENT TEMPERATURE OF THE KT PLUS DIGITAL/ANALOG LEVEL TRANSMITTER IS 71 °C. TO AVOID THE EFFECTS OF PROCESS TEMPERATURE AND OTHER THERMAL EFFECTS, CARE SHALL BE TAKEN TO ENSURE THE SURROUNDING AMBIENT AND THE AMBIENT INSIDE THE TRANSMITTER HOUSING DOES NOT EXCEED 71 °C
13. CAUTION: FLEXIBLE GAUGES HAVE A MINIMUM BEND RADIUS OF 406MM (16")
14. WARNING: THE APPARATUS ENCLOSURE CONTAINS ALUMINUM AND IS CONSIDERED TO CONSTITUTE A POTENTIAL RISK OF IGNITION BY IMPACT OR FRICITION. CARE MUST BE TAKEN INTO ACCOUNT DURING INSTALLATION AND USE TO PREVENT IMPACT OR FRICITION
15. WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.
16. WARNING: TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES, DISCONNECT POWER BEFORE SERVICING.
17. WARNING: THE EQUIPMENT CONTAINS NON-METALLIC ENCLOSURE PARTS, TO PREVENT THE RISK OF ELECTROSTATIC SPARKING. THE NON-METALLIC SURFACE SHOULD ONLY BE CLEANED WITH A DAMP CLOTH.

***NO REVISIONS SHALL BE MADE WITHOUT NOTIFICATION TO APPROVAL AGENCY(S)***
1. The customer should connect the outside ground lug to the safety earthing ground system.

Warning: Conduit seals required within 457 mm (18") of housing.

**FIGURE 1**

SINGLE CAVITY & NEMA HOUSING

**FIGURE 2**

DUAL CAVITY HOUSING

**DETAIL E**

SCALE 1:60

**DETAIL F**

SCALE 1:2

**WIRING CHART (FOR NEMA GAUGE)**

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**DETAIL H**

SCALE 1:1

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**FIGURE 1**

SINGLE CAVITY & NEMA HOUSING

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DUAL CAVITY HOUSING

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