

**SPECIFICATIONS:**

(SPECIFICATIONS AT 25°C (77°F) AND NOMINAL VOLTAGE UNLESS OTHERWISE NOTED.)

**MECHANICAL:**

WETTED MATERIALS: 316 st/st  
 WEIGHT: 1.40 LBS. (0.63 kg)  
 ENCLOSURE: TYPE 380 ALUMINUM; EPOXY POWDER COATED;  
 SHALL NOT CONTAIN, BY MASS MORE THAN 6% OF MAGNESIUM.

**ELECTRICAL:**

ELECTRICAL CONNECTION:  
 4-20 mA LOOP: 2 POSITION TERMINAL BLOCK  
 14-26 AWG WIRE  
 SWITCH OUTPUT: 3 POSITION TERMINAL BLOCK  
 14-22 AWG WIRE

RATING: 4-20 mA OUTPUT, 10-36 VDC @ 24 mA MAX

$$RL(max) = \frac{(V_{in} - 9)}{0.024}$$

**SWITCH OUTPUT:**

MODEL:  
 2WLP41xxx 140 VAC/DC, 0.6 A MAX. CONT.,  
 2 A PEAK (100 MSec)  
 2WLP43xxx 280 VAC/DC, 0.3 A MAX. CONT.,  
 1 A PEAK (100 MSec)  
 (DERATE AT 8% PER 10°C OR 4.6% PER 10°F)

**OPERATING:**

OVERALL ACCURACY:  
 ±1% OF MAX. OPERATING RANGE VALUE  
 SET POINT REPEATABILITY:  
 ±0.2% OF MAX. OPERATING RANGE VALUE  
 LONG TERM STABILITY:  
 ±0.25% OF RANGE PER YEAR, MAX.

**AMBIENT TEMPERATURE:**

OPERATING: -40°C TO 80°C (-40°F TO 176°F)  
 COMPENSATED TEMPERATURE RANGE:  
 0°C TO 70°C (32°F TO 158°F)

LCD VISIBILITY TEMP: -12°C TO 80°C (10°F TO 176°F)

STORAGE: -40°C TO 85°C (-40°F TO 185°F)

THERMAL OFFSET: ±0.5%

THERMAL SENSITIVITY: ±0.75%

**MEDIA TEMPERATURE:**

-40°C TO 125°C (-40°F TO 257°F)

REFER TO NAMEPLATE FOR OPERATING TEMPERATURE RANGE.

**APPROVALS:**

NONINCENDIVE APPLICATIONS:

UL LISTED, cUL CERTIFIED  
 CLASS I, DIVISION 2, GROUPS A, B, C, & D;  
 CLASS II, DIVISION 2, GROUPS F & G;  
 CLASS III;  
 CLASS I, ZONE 2 AEx nC IIC T4;  
 CLASS I, ZONE 2 Ex nC IIC T4;  
 Tamb. = -40°C TO +80°C (-40°F TO +176°F)  
 ENCLOSURE TYPE 4X



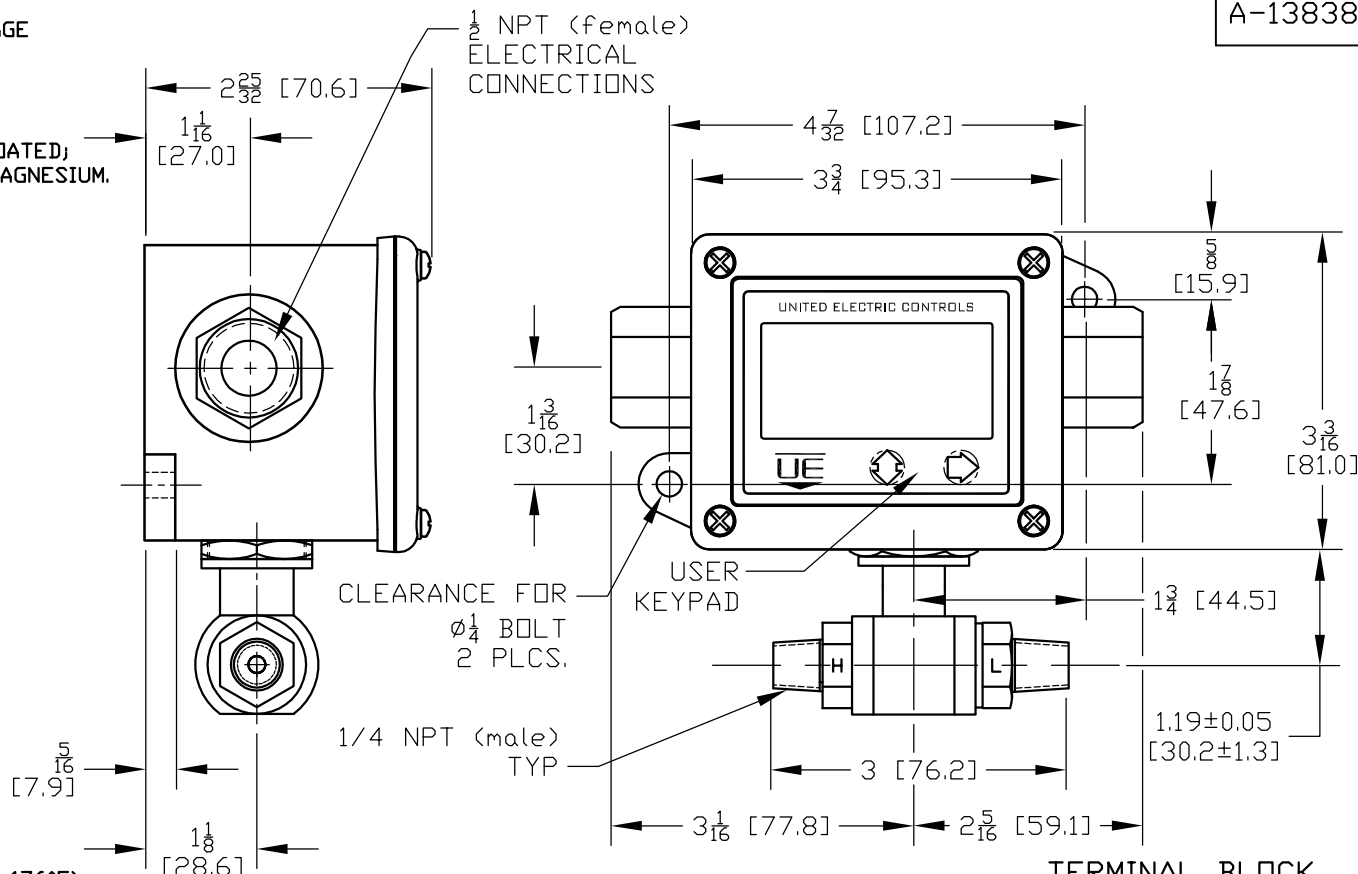
DEMKO 03 ATEX 0322281X  
 -40°C < Tamb. < +80°C, IP66



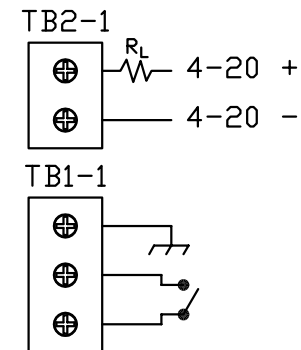
II 3 G EEx nL IIC T4  
 II 3 D T+130°C

| SYM | DESCRIPTION   | DATE    | DWN | APPD |
|-----|---|---------|-----|------|
| H   | K12 & K13: MAX WORKING PRESSURE WAS 1000 psi/69,0 bar. ECN# E4062 | 5/31/11 | MJF | RAM  |
| G   | REDRAWN; REVISED TITLE BLOCK INFO. ECN# E2723                     | 6-24-08 | SR  | LK   |

REVISIONS



**TERMINAL BLOCK**



| MODEL<br>Kxx | OPERATING RANGE |                 | MAX. OVER PRESSURE |      | MAX. WORKING PRESSURE |       |
|--------------|-----------------|-----------------|--------------------|------|-----------------------|-------|
|              | LOW<br>psi/bar  | HIGH<br>psi bar | psi                | bar  | psi                   | bar   |
| K10          | 0               | 5               | 10                 | 0,7  | 50                    | 3,4   |
| K11          | 0               | 50              | 100                | 6,9  | 500                   | 34,5  |
| K12          | 0               | 100             | 200                | 13,8 | 1500                  | 103,4 |
| K13          | 0               | 200             | 400                | 27,6 | 1500                  | 103,4 |

|               |           |
|---------------|-----------|
| ORIGINAL DATE | 5-3-05    |
| DRWN          | S. ROBAK  |
| CHKD          | AB        |
| APPD          | D. WILBUR |

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DO NOT SCALE THIS DRAWING

TITLE  
 ONE SERIES  
 2WLPxxKxx  
 DIFFERENTIAL  
 PRESSURE  
 SINGLE SWITCH  
 4-20 mA OUTPUT  
 SCALE 1:2

DF001D  
  
 UNITED ELECTRIC  
 CONTROLS COMPANY  
 WATERTOWN \* MASSACHUSETTS  
 DWG NO  
 A-13838

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