

| MODEL<br>XXX | OPERATING RANGE |             |      | MAX. OVER PRESSURE |      | MAX. WORKING PRESSURE |       |
|--------------|-----------------|-------------|------|--------------------|------|-----------------------|-------|
|              | LOW<br>psi/bar  | HIGH<br>psi | bar  | psi                | bar  | psi                   | bar   |
| K10          | 0               | 5           | 0.3  | 10                 | 0.7  | 50                    | 3.4   |
| K11          | 0               | 50          | 3.4  | 100                | 6.9  | 500                   | 34.5  |
| K12          | 0               | 100         | 6.9  | 200                | 13.8 | 1500                  | 103.4 |
| K13          | 0               | 200         | 13.8 | 400                | 27.6 | 1500                  | 103.4 |

**SPECIFICATIONS:**

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

**MECHANICAL:**

WETTED MATERIALS: 316 STAINLESS STEEL  
ENCLOSURE: TYPE 360 ALUMINUM; EPOXY POWDER COATED

**ELECTRICAL:**

**ELECTRICAL CONNECTIONS:**  
POWER SUPPLY: 3 POSITION TERMINAL BLOCK, 22-14 AWG WIRE  
4-20 mA LOOP: 6 POSITION TERMINAL BLOCK, 26-16 AWG WIRE  
SWITCH OUTPUTS: 4 POSITION TERMINAL BLOCK, 20-10 AWG WIRE

**SWITCH SPECS:**  
POWER INPUT: 8 WIRE 24 VDC EXTERNAL POWER SUPPLY (10-30 VDC) @ 30mA  
SWITCH OUTPUT RATINGS:  
8X2D42 SW1: 75-250 VAC, 1.5 A MAX. CONT., DERATE 10% PER 10°C ABOVE 21°C  
SW2: 75-250 VAC, 1.5 A MAX. CONT., DERATE 10% PER 10°C ABOVE 21°C  
8X2D44 SW1: 75-250 VAC, 1.5 A MAX. CONT., DERATE 10% PER 10°C ABOVE 21°C  
SW2: 140 VAC/DC, 0.6 A MAX. CONT., DERATE 8% PER 10°C ABOVE 21°C  
8X2D45 SW1: 140 VAC/DC, 0.6 A MAX. CONT., DERATE 8% PER 10°C ABOVE 21°C  
SW2: 140 VAC/DC, 0.6 A MAX. CONT., DERATE 8% PER 10°C ABOVE 21°C

**APPROVALS:**

**cULus listed**  
CLASS I, DIVISION 1, GROUPS A, B, C & D;  
CLASS II, DIVISION 1, GROUPS E, F & G; CLASS III  
CLASS I, ZONE 1, AEx d IIC T5; CLASS I, ZONE 1, Ex d IIC T5  
Tamb = -40°C TO +80°C (-40°F TO 176°F)  
ENCLOSURE TYPE 4X; IP66

**ATEX approved**  
II 2 G Ex d IIC T5  
II 2 D Ex d A21 IP66 T+90C  
DEMKO 09 ATEX 0813748X  
Tamb = -40°C TO +80°C (-40°F TO 176°F)

**IECEx approved**  
IECEx UL 08.0017  
Ex d IIC T5  
Ex d A21 IP66 T+90C  
Tamb = -40°C TO +80°C (-40°F TO 176°F)

THIS DOCUMENT IS PROPRIETARY PROPERTY OF UNITED ELECTRIC CONTROLS. UNAUTHORIZED USE IS STRICTLY PROHIBITED.

| REV. | DESCRIPTION   | DATE    | DRWN | APPD |
|------|---|---------|------|------|
| B    | K12 & K13: MAX WORKING PRESSURE WAS 68.9 bar. ECN# E4062. | 5/31/11 | MJF  | RAM  |
| A    | FIRST ISSUE. ECN#E3133                                    | 4-7-09  | RAM  | RAM  |

|   |             |
|---|-------------|
| ORIGINAL DATE                                       | 4-7-09      |
| DRWN  | RAM         |
| CHKD  | PLW         |
| APPD  | R. McCAREY  |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |             |
| TOLERANCES ON FRACTIONS ±1/64                       |             |
| 2 PLACE DEC   | 3 PLACE DEC |
| ±0.010  | ±0.005      |
| ANGLES ±1/2°  |             |
| DO NOT SCALE THIS DRAWING                           |             |

TITLE  
**8X2D DIFF. PRESSURE SWITCH**

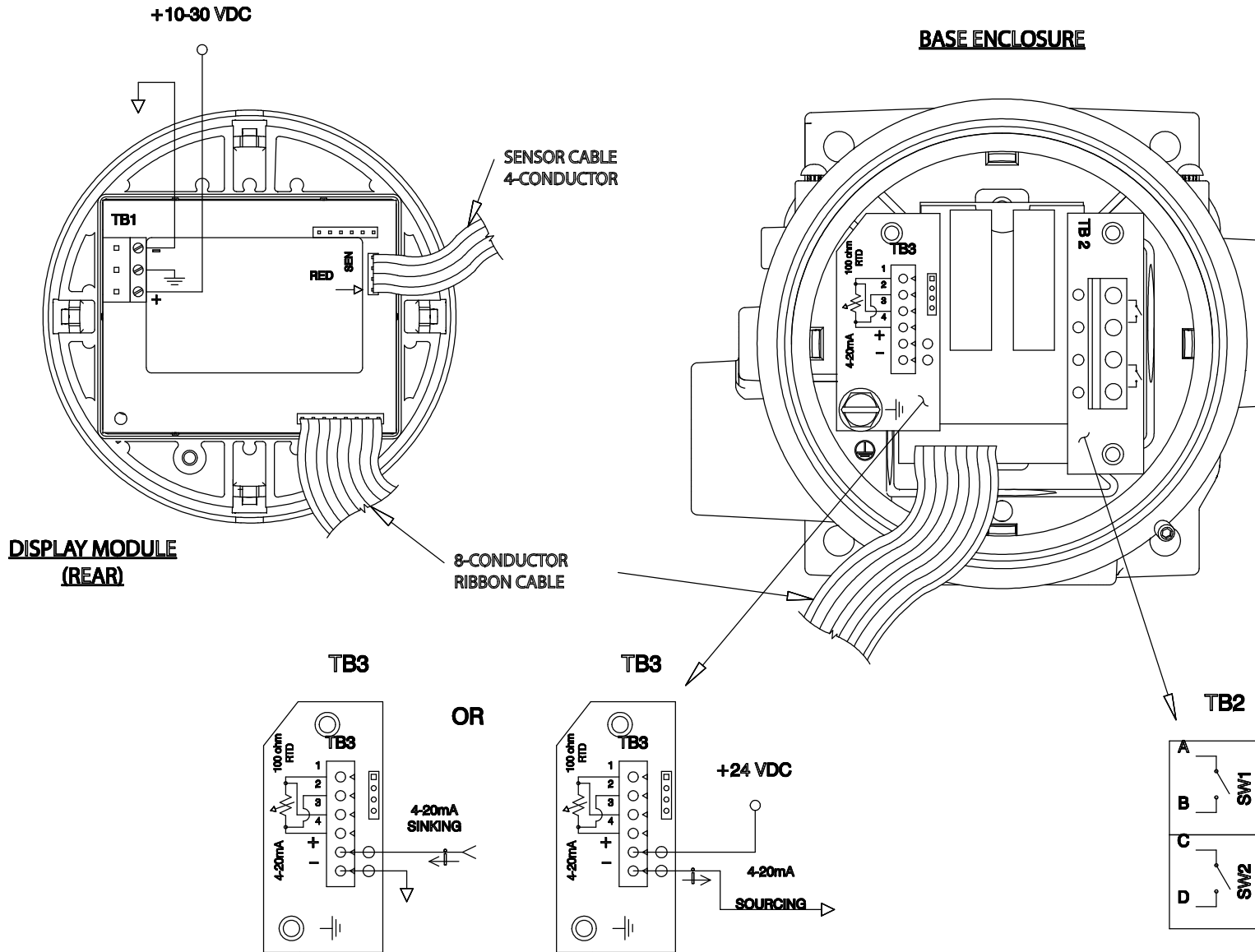
USED ON:  
SCALE 1:1

UNITED ELECTRIC CONTROLS COMPANY  
WATERTOWN \* MASSACHUSETTS

DWG NO Page 1 of 2  
**A-13943**

# RECOMMENDED WIRING SCHEME

A-13943



|  |            |
|--|------------|
| ORIGINAL DATE  | 4-7-09     |
| DRWN   | RAM        |
| CHKD   | PLW        |
| APPD   | R. McCAREY |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ON FRACTIONS ±1/64<br>2 PLACE DEC    3 PLACE DEC    ANGLES<br>±0.010          ±0.005          ±1/2° |            |
| DO NOT SCALE THIS DRAWING  |            |

|          |                                   |
|----------|-----------------------------------|
| TITLE    | <b>8X2D DIFF. PRESSURE SWITCH</b> |
| USED ON: |                                   |
| SCALE    | 1:1                               |



**UNITED ELECTRIC CONTROLS COMPANY**  
WATERTOWN • MASSACHUSETTS

DWG NO   Page 2 of 2

**A-13943**

| REV. | DESCRIPTION   | DATE    | DRWN | APPD |
|------|---|---------|------|------|
| B    | K12 & K13: MAX WORKING PRESSURE WAS 68.9 bar. ECN# E4062. | 5/31/11 | MJF  | RAM  |
| A    | FIRST ISSUE. ECN#E3133                                    | 4-7-09  | RAM  | RAM  |

THIS DOCUMENT IS PROPRIETARY PROPERTY OF UNITED ELECTRIC CONTROLS. UNAUTHORIZED USE IS STRICTLY PROHIBITED.