

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:

24 VDC POWER SUPPLY: 3 POSITION TERMINAL BLOCK (BROWN) 12-22 AWG WIRE
 4-20 mA LOOP: 2 POSITION TERMINAL BLOCK (GREEN) 14-26 AWG WIRE
 SWITCH OUTPUTS: 5 POSITION TERMINAL BLOCK (GRAY) 14-22 AWG WIRE

RATING: 4-20 mA OUTPUT, 10-36 VDC @ 24 mA MAX
 $R_{L(max)} = (V_{in} - 9)$

0.024

SWITCH OUTPUT RATINGS:

8W2D42xxx SW1: 75-250 VAC, 1.5 A MAX. CONT.,**
 SW2: 75-250 VAC, 1.5 A MAX. CONT.,**
 82WD44xxx SW1: 75-250 VAC, 1.5 A MAX. CONT.,**
 SW2: 140 VAC/DC, 0.6 A MAX. CONT.*
 8W2D45xxx SW1: 140 VAC/DC, 0.6 A MAX. CONT.,*
 SW2: 140 VAC/DC, 0.6 A MAX. CONT.,*
 * 2 A PEAK (100 mSec). DERATE AT 8% PER 10°C OR 4.6% PER 10°F, NO MIN. LOAD
 ** 50 A PEAK (100 mSEC), DERATE AT 8% PER 10°C OR 4.6% PER 10°F, MIN. LOAD 50mA

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 TEMP. 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 SPECIFIC OPERATING TEMP. 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

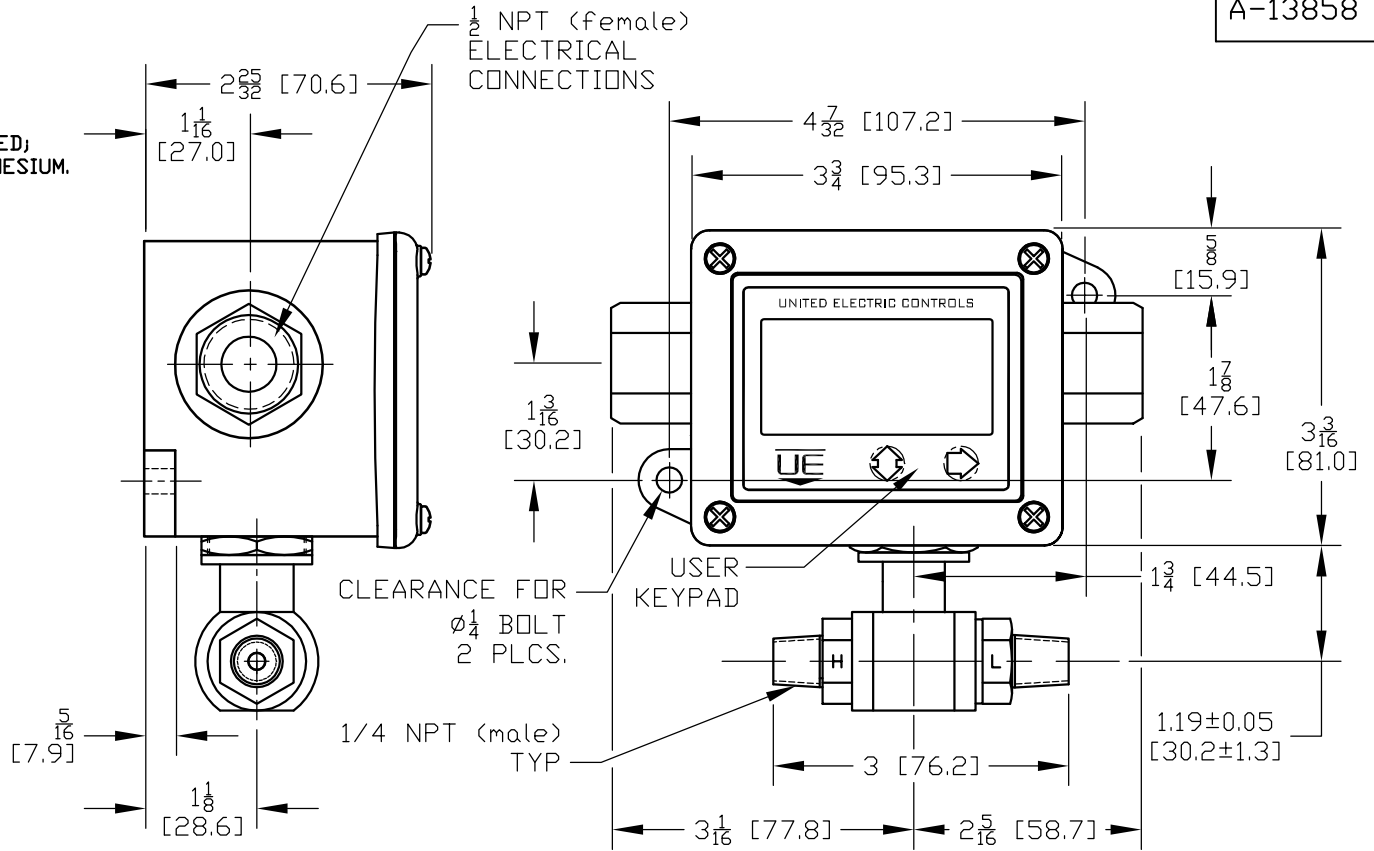


DEMKO 03 ATEX 0322281X
 -40°C < Tamb < +80°C, IP66

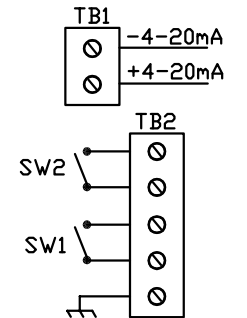


II 3 G EEx nL IIC T4
 II 3 D T+130°C

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TERMINAL BLOCK



MODEL Kxx	OPERATING RANGE		MAX. OVER PRESSURE		MAX. WORKING PRESSURE		
	LOW psi/bar	HIGH 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

SYM	DESCRIPTION	DATE	DWN	APPD
E	CHANGED TERMINAL BLOCK ORIENTATION. ECN# E4119	8/8/11	MJF	DW
D	K12 & K13: MAX WORKING PRESSURE WAS 1000 psi/69,0 bar. ECN# E4062.	5/31/11	MJF	RAM
C	REDRAWN; REVISED TITLE BLOCK INFO. ECN#E2723	6-24-08	SR	LK

REVISIONS

ORIGINAL DATE	11/22/05
DRWN	PLW
CHKD	A.B.
APPD	D.W.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
DO NOT SCALE THIS DRAWING	

TITLE
ONE SERIES
 8W2DxxKxx
 DIFFERENTIAL
 PRESSURE
 DUAL SWITCH
 4-20 mA OUTPUT

DF001D

 UNITED ELECTRIC CONTROLS COMPANY
 WATERTOWN * MASSACHUSETTS
 DWG NO
A-13858