

**ENTITY PARAMETERS**

$U_i = 49\text{ V}$   
 $I_i = 3\text{ A}$   
 $C_i = 0\text{ }\mu\text{F}$   
 $L_i = 0\text{ mH}$

**HAZARDOUS LOCATION**

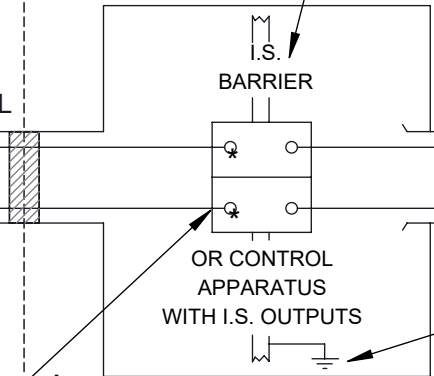
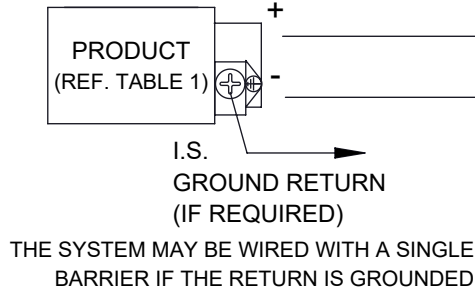
**Ex** II 1 G Ex ia IIC T6 Ga  
 DEMKO 11 ATEX 1105261X  
 $-50^\circ\text{C} \leq T_{amb} \leq +60^\circ\text{C}$   
 0539  
**CE** Ex ia IIC T6 Ga  
 IECEx UL 14.0075X  
 $-50^\circ\text{C} \leq T_{amb} \leq +60^\circ\text{C}$

**NON HAZARDOUS LOCATION**

**TABLE 1**  
 SIMPLE APPARATUS PASSIVE CONTACT COMPONENT SWITCHES

6 SERIES	12 SERIES
10 SERIES	117 SERIES
21K SERIES	120 SERIES
100 SERIES	
400 SERIES	

CONDUIT SEALS MUST BE INSTALLED IN ACCORDANCE WITH IEC 60079-14, EN 60079-14 OR ACCORDING TO NATIONAL INSTALLATION REQUIREMENTS.



CONTROL APPARATUS MUST NOT USE OR GENERATE MORE THAN 250V WITH RESPECT TO EARTH.

I.S. BARRIER MUST BE INSTALLED IN ACCORDANCE WITH BARRIER MANUFACTURER'S CONTROL DRAWINGS. THE WIRING OF THE INTRINSICALLY SAFE CIRCUIT MAY BE INSTALLED IN ACCORDANCE WITH IEC 60079-14 EN 60079-14 OR ACCORDING TO NATIONAL INSTALLATION REQUIREMENTS.

I.S. GROUND, OF BARRIER SYSTEM (EG. FOR SHUNT DIODE BARRIER) CONNECT TO EARTH GROUND ACCORDING TO BARRIER MANUFACTURER'S INSTRUCTIONS

\* INTRINSICALLY SAFE WIRING AND TERMINALS MUST BE ADEQUATELY ENCLOSED TO ENSURE SEPARATION OF INTRINSICALLY SAFE AND NON I.S. WIRING

**NOTES:**

A. SELECTED BARRIERS MUST HAVE ENTITY PARAMETERS SUCH THAT:

$U_o \leq U_i, I_o \leq I_i$

$C_o \geq C_i + C_{cable}, L_o \geq L_i + L_{cable}$

B. FOR  $C_{cable}$  AND  $L_{cable}$ , IF THE CAPACITANCE PER METER OR THE INDUCTANCE PER METER IS NOT KNOWN, THEN THE FOLLOWING VALUES SHALL BE USED:

$C_{cable} = 200\text{ pF/METER}$

$L_{cable} = 1\text{ }\mu\text{H/METER}$

C. THE PRESSURE AND TEMPERATURE SWITCH SERIES DO PROVIDE 500 V ISOLATION WITH RESPECT TO EARTH.

D. APPLICABLE STANDARDS FOR THIS DRAWING ARE LISTED IN THE FOLLOWING CERTIFICATES:

SEE DEMKO 11 ATEX 1105261X FOR EN STANDARDS

SEE IECEx UL 14.0075X FOR IECEx STANDARDS

THESE CERTIFICATES AVAILABLE FOR FREE DOWNLOAD:

[HTTPS://WWW.UEONLINE.COM/SUPPORT/CERTIFICATIONS/](https://www.ueonline.com/support/certifications/)

**WARNING: ENCLOSURE CONTAINS ALUMINUM. CARE MUST BE TAKEN TO AVOID IGNITION HAZARD DUE TO IMPACT OR FRICTION.**

**WARNING: SUBSTITUTIONS OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.**

**WARNING: AGENCY CRITICAL DOCUMENT. NO REVISIONS WITHOUT CERTIFICATION ENGINEER APPROVAL**

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APPROVALS	DATE
DRAWN BY: PLW	5/3/2001
CHECKED BY: A.B.	5/3/2001
APPROVED BY: G.W.	5/3/2001

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THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS & TOLERANCES ARE IN INCHES (MM) INTERPRET PER ASME Y14.5M-2009 STANDARD TOLERANCES

DECIMALS	ANGLES
X ± 0.03	± 1/2°
XX ± 0.01	FRACTIONS ± 1/64
XXX ± 0.005	

TITLE:  
**INTRINSICALLY SAFE (I.S.) CONTROL**

SIZE	DRAWING NO.	REV
<b>A</b>	62174-3	<b>J</b>
SCALE: 1:1	DO NOT SCALE THIS DRAWING	SHEET 1 OF 1

REV	ECN#	DESCRIPTION	DATE	DRWN	APPD
J	E6955	REMOVED : STANDARDS TO WHICH CONFORMITY IS DECLARED EN 60079-0:2012 A11 2013, EN 60079-11:2012, IEC 60079-0:6TH ED, IEC 60079-11:6TH ED. ADDED NOTE D.	07/21/21	SR	<i>SK</i>
H	E6305	REDRAWN. DELETED: "EN 60079-26:2007" AND "IEC 60079-26:2ND Ed" FROM: STANDARDS TO WHICH CONFORMITY IS DECLARED.	6/25/18	SR	SK

REVISION HISTORY