

REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08/16/02	M.B.
B	REVISE TO INCORP NEW MODELS	05/01/05	M.B.
C	REVISED PER ECN-1575	02/28/11	M.B.
D	ADD NEW MODELS	10/05/12	

- NOTES:
- NO REVISION TO DRAWING WITHOUT PRIOR CSA AND/OR LCIE APPROVAL.
  - $V_{OC} \leq V_{max}$ ,  $I_{sc} \leq I_{max}$ ,  $C_o \geq C_i$  &  $C_{ocable}$ ,  $L_o \geq L_i$  &  $L$  cable.
  - CONTROL EQUIPMENT CONNECTED TO BARRIER MUST NOT USE OR GENERATE MORE THAN 250 Vrms OR Vdc.
  - INSTALL IN ACCORDANCE WITH:
    - CANADA-CANADIAN ELECTRICAL CODE (CEC) PART 1.
    - USA- ANSI/ISA RP 12.6 "INSTALLATION OF INTRINSICALLY SAFE SYSTEMS FOR HAZARDOUS (CLASSIFIED) LOCATIONS" AND THE NATIONAL ELECTRICAL CODE (ANSI/NFPA 70).
    - EUROPE-MUST COMPLY WITH THE INSTALLATION REQUIREMENTS OF THE COUNTRY OF USE, e.g. IN THE U.K., BS 5345:PART 4:1977.
  - ASSOCIATED APPARATUS MANUFACTURER'S INSTALLATION DRAWING MUST BE FOLLOWED WHEN INSTALLING THIS EQUIPMENT.
  - BARRIER MUST BE A CERTIFIED, SINGLE CHANNEL GROUNDED SHUNT-DIODE ZENER BARRIER OR A SINGLE CHANNEL ISOLATING BARRIER.
  - FOR UNITS WHICH ARE CONNECTED THROUGH A GROUNDED SHUNT-DIODE SAFETY BARRIER, ENSURE THAT THE TRANSMITTER IS MOUNTED TO A SURFACE WHICH IS AT THE SAME POTENTIAL AS THE BARRIER GROUND.

ENTITY PARAMETERS	
GROUPS:	A, B, C, D, E, F, G
$V_{max}$ or $I_i$ :	= 30 Vdc
$I_{max}$ or $I_i$ :	= 106 mA
$C_{max}$ or $C_i$ :	= .006 uF

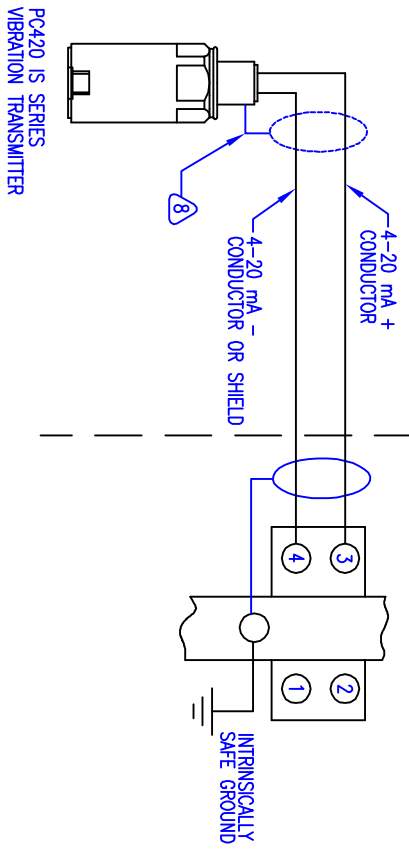
APPROVED MODEL NUMBERS					
VELOCITY	ACCELERATION				
TOP CONNECTOR	SIDE CONNECTOR	INTEGRAL CABLE	TOP CONNECTOR		
SIDE CONNECTOR	INTEGRAL CABLE	TOP CONNECTOR	SIDE CONNECTOR		
INTEGRAL CABLE	TOP CONNECTOR	SIDE CONNECTOR	INTEGRAL CABLE		
PC420VR-05-IS	PC421VR-05-IS	PC423VR-05-IS	PC420AR-05-IS	PC421AR-05-IS	PC423AR-05-IS
PC420VR-10-IS	PC421VR-10-IS	PC423VR-10-IS	PC420AR-10-IS	PC421AR-10-IS	PC423AR-10-IS
PC420VR-20-IS	PC421VR-20-IS	PC423VR-20-IS	PC420AR-20-IS	PC421AR-20-IS	PC423AR-20-IS
PC420VR-30-IS	PC421VR-30-IS	PC423VR-30-IS	PC420AR-30-IS	PC421AR-30-IS	PC423AR-30-IS
PC420VR-50-IS	PC421VR-50-IS	PC423VR-50-IS	PC420AR-50-IS	PC421AR-50-IS	PC423AR-50-IS
PC420VP-05-IS	PC421VP-05-IS	PC423VP-05-IS	PC420AP-05-IS	PC421AP-05-IS	PC423AP-05-IS
PC420VP-10-IS	PC421VP-10-IS	PC423VP-10-IS	PC420AP-10-IS	PC421AP-10-IS	PC423AP-10-IS
PC420VP-20-IS	PC421VP-20-IS	PC423VP-20-IS	PC420AP-20-IS	PC421AP-20-IS	PC423AP-20-IS
PC420VP-30-IS	PC421VP-30-IS	PC423VP-30-IS	PC420AP-30-IS	PC421AP-30-IS	PC423AP-30-IS
PC420VP-50-IS	PC421VP-50-IS	PC423VP-50-IS	PC420AP-50-IS	PC421AP-50-IS	PC423AP-50-IS

HAZARDOUS LOCATION  
CLASS 1  
DIVISION 1  
GROUPS A, B, C, D,

CONTROL AND MONITORING EQUIPMENT  
SEE NOTE 3

NONHAZARDOUS OR  
DIVISION 2 LOCATION

ASSOCIATED APPARATUS  
SAFETY BARRIER  
SEE NOTE 5 & 6



**PROPRIETARY**

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DO NOT SCALE DRAWING

TOLERANCES:  
XX = ± MA  
XXX = ± MA

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.	
APPROVALS	DATE
R. JACOUES	05/21/02
A. STARNES	08/16/02

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**MEGITT**

CONNECTION DIAGRAM, PC420 IS TRANSMITTER, HAZARDOUS LOCATION

SCALE: 12779

SHEET 1 OF 1