

IPC6 UKEX/ATEX/IECEx

Intrinsically Safe Installation Schematic Drawing

NOTES:

- 1. NON-HAZARDOUS (SAFE) AREA APPARATUS. UNSPECIFIED EXCEPT THAT IT SHALL NOT BE POWERED FROM NOR CONTAIN UNDER NORMAL OR ABNORMAL CIRCUMSTANCES A SOURCE OF POTENTIAL WITH RESPECT TO EARTH GREATER THAN 250V AC RMS OR DC.
- 2. CONVERTOR PARAMETERS ARE AS SHOWN:

- 3. THE IPC6 SERIES OF CONVERTORS MAY BE CONNECTED TO ANY SINGLE CHANNEL POSITIVE POLARITY SHUNT ZENER DIODE BARRIER (OR OPTIONALLY A DIODE RETURN BARRIER) CERTIFIED BY AN EC REGISTERED TEST HOUSE TO A CENELEC STANDARD WITH THE CODING (IEx ia) IIC'. THE BARRIER SHALL HAVE THE FOLLOWING MAXIMUM OUTPUT PARAMETERS:

 Uo(Uz) ≤ Ui(Umax) Co ≥ C cable + Ceq Io(IK) ≤ Ii (Imax) Lo ≥ L cable + Lea
- 4. THE ELECTRICAL CIRCUIT IN THE HAZARDOUS AREA MUST BE CAPABLE OF WITHSTANDING AN A.C. TEST VOLTAGE OF 500 VOLTS RMS TO EARTH OR FRAME OF THE APPARATUS FOR ONE MINUTE.
- INSTALL CONVERTOR PER INSTALLATION MANUAL.
- 6. WIRING & INSTALLATION SHALL COMPLY WITH EN 60079-14 IEC 60079-14 AND RELEVANT APPARATUS CERTIFICATES.
- 7. WARNING THE APPARATUS ENCLOSURE CONTAINS ALUMINUM AND IS CONSIDERED TO CONSTITUTE A POTENTIAL RISK OF IGNITION BY IMPACT OR FRICTION. CARE MUST BE TAKEN INTO ACCOUNT DURING INSTALLATION AND USE TO PREVENT IMPACT OR FRICTION.
- Entity Installation Requirements: Vmax or Ui >= Voc or Uo Imax or Ii >= Isc or Io Pmax or Pi >= Po Ci + Ccable ≤ Co Li + Lcable ≤ Lo

