Hazardous Location

Non – Hazardous Location

Barrier Galvanic Isolator

Apparatus input Values
I. S. V max = 30.0 V DC ; I max = 130 mA ; Pi ≤ 0.8W
Ci = 0.57nF Li = 0.5mH

Associated Apparatus
1. Barrier or Galvanic Isolator must be FM approved and must be installed in accordance with manufactures instructions.
2. Barrier or Galvanic Isolator parameters must meet the following Requirements :
   1. Voc or Vt ≤ V max; Ca + Ccable;
   2. Isc or It ≤ I max; La + Lcable
   3. Po or Pt ≤ Pmax
1. Maximum non hazardous area voltage must not exceed 250V.
2. Install in accordance with the NEC (ANSI/NFPA 70) and ANSI/ISA RP12.6. “Installation of intrinsically safe systems” Do not alter without FM authorization

I.S. Temperature Transmitter Model “TTF300” Ordering Code “TTF300-L1..H” is an Temperature Transmitter Type TTH300-L1H, which is installed in an enclosure type AGLF, AGSF or AGLFD, AGSFD w/wo FM Approved display HMI-Ex type A, AS, B, BS.

WARNING!
Resistance between barrier ground and earth ground must be less then 1.0 Ohm!

“The apparatus enclosure AGL... 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”.

Sensors must be FM approved or be a simple apparatus. Simple apparatus is a device which will neither generate or store more than 1.5 V; 0.1 A; 25 mW or 20 µJ such as switches; RTD’s, TC or LED’s