WARNING: SUBSTRIUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR HAZARDOUS LOCATIONS.

NOTES:
1. Installations in Europe shall comply with the relevant requirements of EN60079-14 and applicable national standards.
2. Installations for IECEx certifications shall be in accordance with IEC 60079-14 and the wiring practices for the country of installation.
3. Associated apparatus must be approved by authority having jurisdiction and must be installed in accordance with manufacturers instructions.
4. The FISCO Supply, FISCO Field Device(s) and FISCO Terminators shall be ATEX, Certified for installations in Europe.
5. The FISCO Supply, FISCO Field Device(s) and FISCO Terminators shall be IECEx Certified for IECEx installations.
6. The FISCO Supply manufacturer’s installation drawing shall be followed when installing this equipment.
7. Associated apparatus parameters must meet the following requirements:
   - Insulation: 250 Vrms or Vdc, or marked 500 V or the associated apparatus
   - A dust tight seal must be used at the conduit entry when the Transmitter is used in a Class II & III location.
   - Suitable separation must be maintained between input wiring and sensor wiring.
8. The control room equipment connected to FISCO Supply must not generate more than 250 W or Vrms or Vdc, or marked 500 W or the associated apparatus
9. The fieldbus Intrinsically Safe Concept (FISCO) allows the interconnection of one FISCO certified power supply, an unlimited number of FISCO certified field devices, and two FISCO certified terminators, one of each end of the trunk cable. (Note: the FISCO Terminator at the supply end is usually incorporated in to the FISCO Power Supply.)
10. Suitable separation must be maintained between input wiring and sensor wiring.

11. WARNING: DO NOT DISCONNECT EQUIPMENT WHILE LIVE UNLESS THE AREA IS KNOWN TO BE NON-HAZARDOUS

The Fieldbus Intrinsically Safe Composite (FISCO) allows the interconnection of one FISCO certified power supply, an unlimited number of FISCO certified field devices, and two FISCO certified terminators, one of each end of the trunk cable. Each piece of apparatus will be marked with the words “FISCO” followed by the indication of its function, i.e. “Power Supply”, “Field Device” or “ Terminator”. Interconnection of the FISCO Field Device, FISCO Terminators and FISCO Power Supply must be suitable for the same Division or type of protection and Gas Group(s).

The FISCO power supply must be located not more than 30m from one end of the trunk. Where the power supply is connected via a spur, that spur is restricted to a length of 30 m.

The cable used to interconnect the devices needs to comply with the following parameters:

- Loop resistance Rs: 150/km to 150 W/km
- Inductance per unit length Lc: 4nH/km to 1mH/km
- Capacitance per unit length Cc: 45nF/km to 200nF/km
- Maximum length of spur cable: 6mm for IEC and III (or Group A & B); 15mm for IEC and III (or Group A & B). The maximum length of each trunk cable, including the length of all spurs, is 1 km for IEC (or Group A & B) and 5 km for IEC (or Group A & B). The Terminators: At each end of the trunk cable a line terminator with the following parameters is suitable:
  - Rs = 150 to 150 W/km
  - Lc = 4nH/km to 1mH/km
  - Cc = 45nF/km to 200nF/km

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