PEPPERL+FUCHS

16-402FM-12

Level probe LGC
FM control drawing

Hazardous location

Class I,DIV.1,GroupsA,B,C, D
AExia IICT6
Class I,DIV.2,GroupsA,B,C, D

Non hazardous location

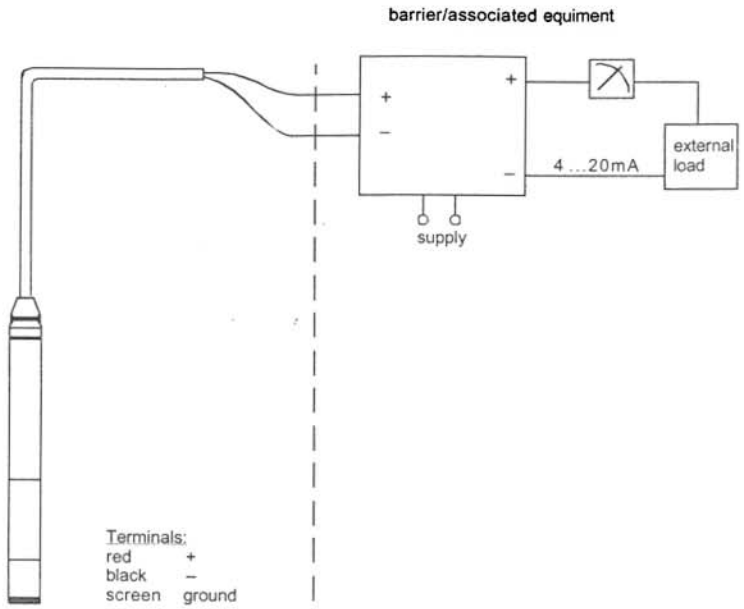

Table: Entityparameters sensor:

Vmax. = 30VDC
Imax. = 133mA
Pmax. = 1 W
Ci seetable
Li seetable

Intrinsically safe (entity), Class I, DIV.1, GroupA,B,C,D Hazardous Location Installations

1. Control roomequipmentmaynotuse orgenerateover250V
2. Use Factory Mutual E ntity-approved intrinsicsafety barrierwith Voc or Vt ≤ Vmax. Iscor It ≤ Imax, Ca ≥ Ci + C_{cable}, La ≥ Li + L_{cable}
   Barrier must beincapable of delivering more than 1 W atttoa matched load.
   Transmitter entity parametersareasfollows: Vmax =30VDC
   Imax= 133mA
   Pmax =1 W

CiandLiper table:

Lengthofsensorcable	Ci (5,3 nF+180pF/m)	Li(1µH/m)
5 m	6,2nF	5 µH
10 m	7,1nF	10 µH
20 m	8,9nF	20 µH
30 m	10,7nF	30 µH
50 m	14,3nF	50 µH
100 m	23,3nF	100 µH
200 m	41,3nF	200 µH
300 m	59,3nF	300 µH

3. Installationshouldbe inaccordancewithANSI/ISARP12.6 „ Installation of intrinsicallysafesystemsfor hazardous(classified) locations" andthe National Electrical Code(ANSI/ NFPA70).
4. Warning:SubstitutionofComponents mayimpairintrinsicsafety.
5. Intrinsic safetybarrier manufacturer's installationdrawing mustbefollowed,when installingthis equipment: Theconfigurationof the intrinsicsafety barrier(s) must be FMRCapproved.
6. Use supplywiressuitable for5°Cabove surrounding ambient.

Nonincendive ClassI,DIV.2,groupA,B,C,D Hazardous Location Installation

1. Install perNational Electrical Code (NEC)
   DIV.2 barrierrequired
   max Supply voltage30 VDC

2. Warning:Explosion Hazard-Do not d isconnect equipmentunless powerhasbeen switched off orarea is knowntobenonhazardous.
   Warning: SubstitutionofComponents mayimpairsuitabilityforClass I, DIV.2

Note: F ornonincendive field circuitevaluations,theinput current(Imaxorli) of the receivingdeviceneednotmatchtheoutputcurrent (Iscorlo) of the barrier/associated equipmentsupplying the energy.