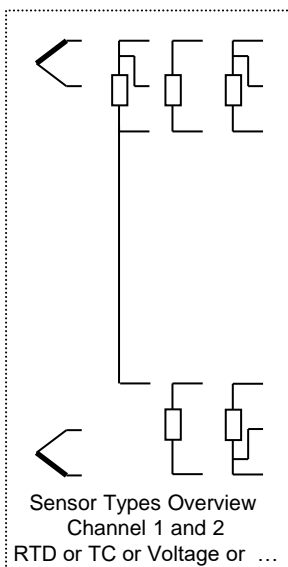


## Sensors

must be FM approved or be a simple apparatus. Simple apparatus is a device which will neither generate nor store more than 1.5 V; 0.1 A; 25mW resp. 20 µJ such as switches, RTD's, TC.



## I.S. Sensor Field Circuit Entity Parameters

$V_{oc} = 6.5 \text{ V}$ ;  $I_{sc} < 17.8 \text{ mA}$ ;  $P_o = 29 \text{ mW}$

Terminals: 1,2,3,4: GP: A,B  $C_a = 1.65 \mu\text{F}$ ;  $L_a = 5.0 \text{ mH}$   
C,D  $C_a = 8.85 \mu\text{F}$ ;  $L_a = 5.0 \text{ mH}$

## FM intrinsically safe field circuit approval

Temp. Ident.: T6, T5 at  $T_{amb} = 56 \text{ }^\circ\text{C}$ ;  
T4 ... T1 at  $T_{amb} = 85 \text{ }^\circ\text{C}$ ;

Class I Div. 1,2 Groups A,B,C,D or

Class I Zone 0 AEx/Ex ia IIC

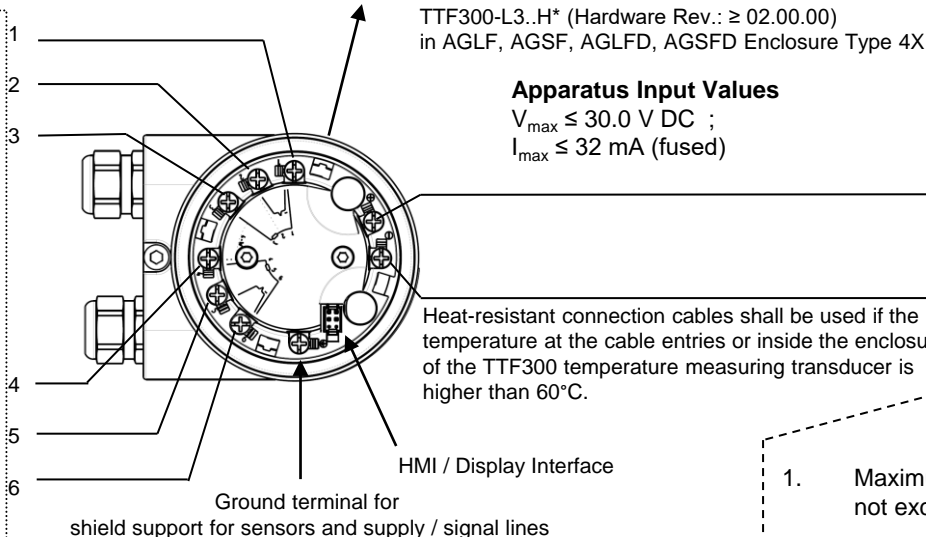
Temperature Transmitter Model "TTF300" Ordering Code "TTF300-L3..H\*" are Temperature Transmitter Types, that are installed in an Explosion proof enclosure type AGLF, AGSF or AGLFD, AGSFD w/wo FM approved display.

\* Includes the TTH300-N variant

## Warning:

Resistance between barrier ground and earth ground must be less than 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.



## FM approved HMI / Display Interface with Intrinsically Safe Output Parameters

Class I Div 1,2 Groups: A,B,C,D or

Class I Zone 0 AEx/Ex ia IIC

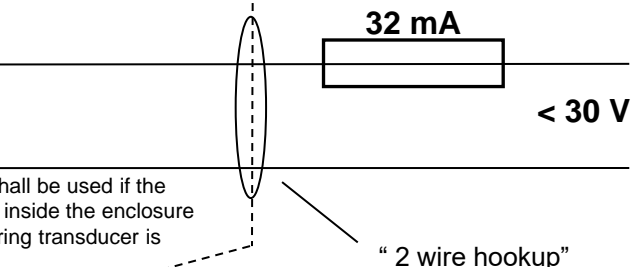
$V_{oc} = 6.2 \text{ V}$ ;  $I_{sc} < 65.2 \text{ mA}$ ;  $P_o = 101 \text{ mW}$

Terminals: 6 PIN Connector

GP A,B  $C_a = 1.4 \mu\text{F}$ ;  $L_a = 5.0 \text{ mH}$

C,D  $C_a = 8.9 \mu\text{F}$ ;  $L_a = 5.0 \text{ mH}$

## Hazardous Location Non – Hazardous Location



1. Maximum non - hazardous area voltage must not exceed 250V
2. Dust-tight conduit seal must be used when installed in Class II and Class III environments.
3. When connecting conduit to the enclosure use conduit hubs that have the same environmental rating as the enclosure.
4. Sensor Installation in accordance with the CE Code CSA C22.1 61010-1, or NEC (ANSI/NFPA 70) and ANSI/ISA RP12.06.01 " Part 1: Intrinsic Safety'

				Do not alter without FM authorization			Title:  TTF300 HART (HW Rev. ≥ 02.00.00) X.P. / I.S.-Output Temperature Transmitter Control Drawing	Scale:  -----
				Approv.	09.20.21	Peterich		
					Date	Name		
				<div>ABB</div> Automation Products			Drawing / Part No.:	Page : of
2.01	misc	02.12.22	Peterich				TTF300-L3H	1 / 1
2.00	HW02.00	15.07.22	Peterich					
Rev.	Desc.	Date	Name					
							Replacement of: -----	