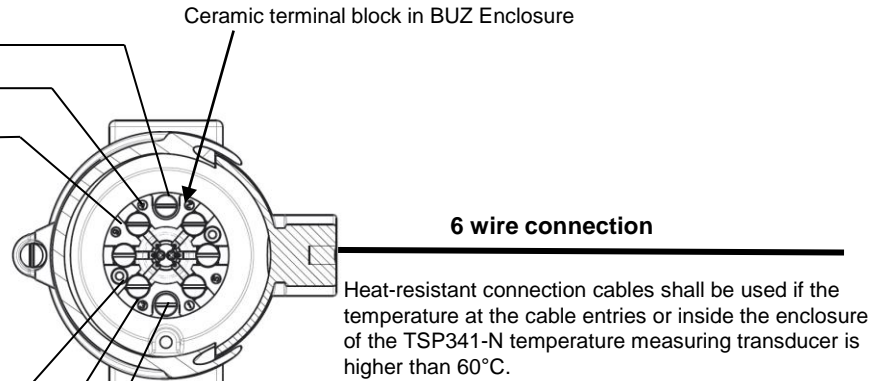
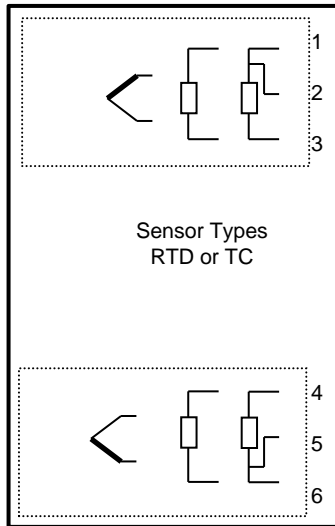


Hazardous Location

Measuring inset
2 RTD's or TC, which are simple apparatus: neither generate nor store more than 1.5 V; 0.1 A; 25mW resp. 20 μJ.

L_o and C_o are negligible (Wire length < 1500 mm)



TTF300-N

$V_{oc} \leq 6.5 \text{ V DC}$;
 $I_{sc} \leq 25 \text{ mA}$;
 $P_i \leq 38 \text{ mW}$

Associated Apparatus

Transmitter must be FM approved (US) or listed for Canada (cFM/CSA) and must be installed in accordance with manufacturers instructions.

Nonincendive Parameters must meet the following Requirements :

V_{oc} or $V_t \leq V_{max}$; $C_a \leq C_i + C_{cable}$;
 I_{sc} or $I_t \leq I_{max}$; $L_a \leq L_i + L_{cable}$

The temperature transmitter is FM approved for nonincendive field circuits when installed per Canadian Electrical Code

C22.1 Annex J18 or national electrical code (NEC) article 501-10(B)(3), 502-10(B)(4) or 503-10(B)(4) with FM approved nonincendive field circuit output apparatus which meet the parameters indicated above.

Surface Temperature pipe	Maximum allowable Ambient temperature at enclosure T_{amb}	
T_{surf}	Pipe without insulation	Pipe with insulation
T6, T5 72°C/87°C	68°C	71°C
T4 122°C	92°C	96°C
T3 187°C	86°C	86°C
T2 282°C	77°C	77°C
T1 432°C	63°C	63°C

FM Nonincendive field circuit approval

Class I Div. 2; Groups A,B,C,D
Class I Zone 2 AEx/Ex nA IIC T6, T4 Gc
Class I Zone 2 AEx/Ex ec IIC T6, T4 Gc

Temperature Sensor Model "TSP341-N" Ordering Code "TSP341-N-L2YB" contains a ceramic terminal block, that is installed in an enclosure type BUZ

				Do not alter without FM authorization			Title:		Scale:		
				Approv. 2023-06-30		Peterich		TSP341-N BUZ enclosure N.I. no transmitter Control Drawing		-----	
				Date		Name					
				ABB Automation Products			Drawing / Part No.:		Page : of		
							TSP341-N-L2YB		1 / 1		
											Replacement of: -----
1.00	release	2023-07-17	Peterich								
Rev.	Desc.	Date	Name								