

ISO 2768-mH-E N

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- CSA approved associated apparatus or barrier is required.
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.
- Warning: Substitution of components may impair suitability for Class I, Division 2.
- Avertissement: La substitution de composants peut rendre ce matériel inacceptable pour les emplacements de Class I, Division 2.
- Nonincendive field wiring installation:

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The Nonincendive Field Wiring Circuit Concept allows interconnection of Nonincendive Field Wiring Apparatus with Associated Nonincendive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus or Associated Apparatus not specifically examined in combination as a system using any of the wiring methods permitted for unclassified locations, when $Voc \le Vmax$, $Ca \ge Ci + Ccable$, $La \ge Li + Lcable$. For these current controlled circuits, the parameter Imax is not required and need not to be aligned with parameter Isc and It of the Associated Nonincendive Field Wiring Apparatus or Associated Apparatus.

CONDITIONS OF ACCEPTABILITY

- The above model is permanently connected, Output of power supply below the limits of clause 6.3.1 and 9.4, max. 30 Vdc, supplied by an external certified power source, not part of this investigation. The DC output of this separately certified power source shall be below the limits of clause 6.3.1 of IEC 61010-1:2010), Pollution Degree 2. Mode of operation: Continuous.
- From the safety point of view, the thermometer shall be considered to be connected to earth (for details see first page of Control drawing).
- It is not permitted to use the configuration pins 2 and 4 when the thermometer is connected to electrical supply.
- Electrostatic charge on the M12 connector shall be avoided in dust explosive atmospheres during operation and maintenance.
- When installing the product within two different Zones (Zone 0/1 or Zone 20/21) containing parts with different EPLs i.e. either Ga/Gb or Da/Db, a thermowell as a partition wall (with a thickness at least 1mm) for the Zone 0 installation and a process connection with a tight joint of at least IP67 (according to IEC 60529) has to be installed between one hazardous zone area to the other as required in IEC 60079-26:2014.
- The temperature class of the transmitter and temperature sensor is dependent on the ambient temperature and the process temperature (see Thermal data).

Thermal data:

Туре	Temperature	Ambient temperature range						
	class	housing Ta						
TM371,	T6	$-40^{\circ}C \le Ta \le +55^{\circ}C$						
TM372	T5	$-40^{\circ}C \le Ta \le +70^{\circ}C$						
	T4	-40°C ≤ Ta ≤ +85°C						

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Туре	Insert	Process temperature range	Temperature class
	diameter	Тр	
TM371,	3mm,	-50°C ≤ Tp ≤ +75°C	Тб
TM372	6mm	$-50^{\circ}C \le Tp \le +90^{\circ}C$	T5
		-50°C ≤ Tp ≤ +125°C	T4
		-50°C ≤ Tp ≤ +190°C	Т3
		-50°C ≤ Tp ≤ +285°C	T2
		-50°C ≤ Tp ≤ +435°C	T1

Туре	Ambient temperature range	Maximum surface				
	housing Ta	temperature housing				
TM371,	$-40^{\circ}C \le Ta \le +55^{\circ}C$	T135°C				
TM372	$-40^{\circ}C \le Ta \le +70^{\circ}C$	T135°C				
	$-40^{\circ}C \le Ta \le +85^{\circ}C$	T135°C				

Туре	Insert	Process temperature range	Maximum surface temperature sensor					
	diameter	Тр						
TM371,	3mm,	-50°C ≤ Tp ≤ +75°C	T85°C					
TM372	6mm	$-50^{\circ}C \le Tp \le +90^{\circ}C$	T100°C					
		$-50^{\circ}C \le Tp \le +125^{\circ}C$	T135°C					
		-50°C ≤ Tp ≤ +150°C	T165°C					

	Approved	Date (yyyy-mm-dd)	Drawing No.	Dwg.rev.	Revision no.	Revision date (yyyy-mm-dd)	Name	Material 7	1606925		<u>,</u> c
	Pfanzelt	2022-05-13	10000013282	-	-	-	-	XA02869T/09/	EN/01.22	لنک Endress+Hauser	/
Volume (mm³)	Designed	Date (yyyy-mm-dd)	Unit	Scale	Title	•		_			
	Pfanzelt	2022-05-12	TM371, TM372	1:1	CONTRO	NTROL DRAWING CSA		Series	5		
Refer to protection notice	Edge of working parts	Geometrical tolerancing	Part No.	Format	Ex ia IIC.	Ex ia IIIC		Objekt version	Sheet	Endress + Hauser Wetzer	
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