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ISO 16016

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ISO 13715

ISO 2768-mH-E

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Nesselwang / Germany

GmbH+Co. KG

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For a system that has a sinterconnection is intrin Vmax (or Ui) \geq Imax (or Ii) \geq Pi \geq Po Ca (or Co) \geq (Citot + Co La (or Lo) \geq (Litot + Lo	single-channel associated a sically safe if: Voc (or Uo) for each intr Isc (or Io) for each intrin Ccable) where Citot = sum cable) where Litot = sum o	apparatus connected to mor rinsically safe apparatus isically safe apparatus i of individual Ci values of individual Li values	re than one intrinsically safe apparatus,	the				c FM US APPROVED	
 Approved Intrinsically si Apparatus with Entity C (3) The Temperature N general purpose equipm (4) Temperature Multi the location in which it (5) Simple Apparatus i well defined electrical p passive component that in which it is used. Example for simple appa (6) Enclosure is conduction 	afe apparatus with Entity (Concept parameters. Aulti Channel Device mus ent. Cannel Device type TMT is installed and with a mir s defined as an electrical c arameters that does not ge does not dissipate more th aratus: Resistance tempera ctive and must be grounde	Concept parameters shall or concept parameters shall or t be installed in UNCLASSI 125-**1*** must be mour nimum ingress protection of component or combination of enerate more than 1.5 volts han 1.3 watts and is compa- ature devices or thermocoup ed in accordance with the E	hly be connected to approved Associate FIED LOCATION if powered through a nted in an enclosure which is suitable for f IP 20. of components of simple construction v , 100 milliamps, and 25 milliwatts, or a tible with the intrinsic safety of the circ ples	d or vith a uit					c
 Wiring methods mu To prevent summation 	ust be in accordance with tion of currents, install eac	the Electrical Code of the c	ountry in use. e intrinsically safe circuit.		Devidence - Devidence de Aurora de	Name			
Volume (mm³)	Approved Pfanzelt Designed Pfanzelt	Date (ywy-mm-dd) 2006-06-16 Date (ywy-mm-dd) 2006-06-13	Drawing No. 14 26 00 111 Unit TMT125	Dwg.rev. Scale 1:1	Revision no. Revision date (ywy-mm-dd) Title CONTROL DRAWING	Name 6 FM	Material 71032400 ZD059R/09/en/08.06	Endress+Hauser]
Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No.	Format A4			Objekt version Sheet 2 of 3	Endress + Hauser Wetz GmbH+Co.KG Nesselwang/Germa	ər ny

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		Installatio	in Notes:	FM	
UNCLASSFIED LOCATION OR HAZARDOUS (CLASSIFIED) LOCATION CLASS I, ZONE 2, GROUP IIC or CLASS I, DIVISION 2, GROUPS A-D		 Wiri Inpu allows in fall wiri 	ig methods must be in accordance with the Electrical Code of the country in u t connections utilize the Nonincendive / energy – limited field wiring concept terconnection of nonincendive field wiring apparatus or intrinsically safe appara	se. APPROVED (See information Note 12), which atus with an associated nonincendive	
Temperature Multi Channel device		Voc (U _o); (3) These	The devices are rated "Nonincendive". If the devices are intended to be mounted $Callebra = 1$	in a Division 2 / Zone 2 location,	⊳
		they mus Division ④ If eq installed clamp	t have an enclosure or be mounted in an enclosure with a minimum ingress pro- 2 / Zone 2 wiring methods. A temperature rating of T4 applies to all nonincent aipment installed in a Division 2 location is provided with removable connector using the nonincendive field wiring concept, each removable connectors must	otection of IP 2X that can accept the live rated devices. rs (i.e. 7/8" connector) and is not be fitted with a suitable locking	
		Use of re field wiri	novable connectors in zone 2 installations is limited to installations the utilizin ng concept (see notes 7 and 12)	g energy – limited / nonincendive	
Nonincendive field wiring	Fieldbus power source	(5) To n **2***	aintain the integrity of the Type 4X and IP5X enclosure ratings, Temperature M shall be mounted upon a solid plate or panel.	Multi Channel Device type TMT125-	
Or Intrinsically Safe apparatus	General purpose equipment (3)(9)	In Divisio enclosure	n 2 / Zone 2 installations Temperature Multi Channel device type TMT125-* capable of accepting Class 1 Division2 / Zone 2 wiring methods as specified b	*1*** must be mounted in an by the Electrical Code of the country in	
Nonincendive Equipment	OR	use. (6) An a limited fi	pproved Certified fieldbus power source suitable for the location in which it is i	installed with nonincendive / energy -	30
HAZARDOUS (CLASSIFIED) LOCATION	Nonincendive equipment ③	Device is ⑦ Mul	installed. Install fieldbus power source in accordance with manufacturer's haza iple loads are permitted to be connected (including multiple Temperature Multiple Statement and Statemen	ardous location installation drawing. ti Channel Devices) using the	
CLASS I, ZONE 2, GROUP IIC or CLASS I, II, III DIVISION 2, GROUPS A-G	OR	nonincer wiring co	tive / energy - limited field wiring concept (See Information Note 12). The nor ncept allows interconnection of equipment not specifically examined in combined in the specifical sector.	nincendive / energy - limited field nation as a system when:	
	Assosciated nonincentive () () Field wiring apparatus (8) (10)	Vmax (U nonincer) of the Temperature Multi Channel Device and all other loads connected to ar dive / energy - limited apparatus;	n Input \geq Voc (Uo) of the associated	
Table 1: Supply		Ca (Co) (Input	of the associated nonincendive / energy – limited apparatus \geq Ccable + sum of	Ci for all other loads connected to an	
$Ui \text{ or } Vmax = 35 \text{ V} \qquad Ii \text{ or } Im$	$hax = unlimited \qquad Ci = 0 \ \mu F \qquad Li = 0 \ mH$	La (Lo) o Input	the associated nonincendive / energy – limited apparatus \geq Lcable + sum of l	Li for all other loads connected to an	
Table 2: Input ENTITY Parameters		(8) Refe Tempera	to Table 1 for Temperature Multi Channel Device nonincendive / energy - lin ture Multi Channel Device is both, a nonincendive / energy - limited field wiri	nited field wiring parameters. The ng apparatus and an associated	
(lerminals CH 1 +, H, L, - to CH 8 +, Uo or Voc = 7.2 V Crown A B room UC	H, L, - Io or Isc = 6.5 mA	100 mH	any / energy - immed apparatus. ral purpose equipment is restricted to installation in unclassified locations.	n all devices connected to an Input are	
Group C, D, E, F, G resp. IIB, IIA	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	100 mH approved manufact	/ certified for connection using the nonincendive field wiring concept and are urers instructions for nonincendive field wiring installations.	installed in accordance with the	
		 I) Encl I) Whe disconne 	sure is conductive and must be grounded in accordance with the Electrical Co n installed properly, the nonincendive / energy – limited field wiring concept a ction of instruments without regards to the Division 2 / Zone 2 hazardous loca	Ide of the country in use. Ilows the live connection and tion and eliminates the need for using	C
		a Divisio	12/ Zone 2 wiring method.		

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▫		Approved	Date (yyyy-mm-dd)	Drawing No.	Dwg.rev.	Revision no.	Revision date (yyyy-mm-dd)	Name	Material	71032400		
		Pfanzelt	2006-06-16	14 26 00 111					ZD059R/0	9/en/08.06	Endress+Hauser	
	Volume (mm³)	Designed	Date (yyyy-mm-dd)	Unit	Scale	Title						
		Pfanzelt	2006-06-13	TMT125	1:1	CONTF	ROL DRAWING	6 FM	Seri	ies		
	Refer to protection notice	Edge of working parts	Geometrical tolerancina	Part No.	Format				Objekt version	n Sheet	Endress + Hauser Wetzer	
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