TI364en

Product Information

TDE2-Series (T_fp)

Duct Temperature Frost Prevention Switch with ON/OFF output



The TDE2-Series (T_fp) is designed to prevent frost damage by measuring the temperature in

The control output is 2-point (ON/OFF)

The frost prevention switch has an internal set point adjuster

Several length are available to cover all common applications



Use

Features

Compatible to all common HVAC DDC and Analog Controls systems, with/without Building Automation System

Frost protection in HVAC systems

Used in all common HVAC applications

Used in Commercial and Industrial Buildings

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Sensor with passive output (ON/OFF)

Different immersion lengths for all common air duct sizes

With automatic or manual reset function

Internal Frost Prevention set point point selector

Professional and practical product design, withstands rough environmental conditions

Easy to use, install and maintain

Product Range

	Sensor					Housing
Order Code	Set point Range	Switching Differential	Contact	Switching Load	Length	Protection
TDE2.CAb					1800mm	
TDE2.DAb	-10°+12°C	2k ±1	SPDT	AC 250V 10A	3000mm	IP65
TDE2.EAb					6000mm	

o	Sensor Specification	Measured	Temperature	
Sensor Specification		Sensor Characteristics	Passive	
		Sensor Output (s)	ON/OFF SPDT (NC)	
Spe		Sensor Element	Copper Capillary	
	Electrical Information	Terminal Clamı	Screw terminal, max. 1.5mm ²	
		Relay Rating	AC 250 10(6)A	
		Switching Differential	2 ±1K	
	Electric Strengths		AC1500V/1min	
	Insulation		≥100MΩ in standard status, ≥10MΩ in moist status	
		Contact Life	≥10 ⁵	
	Mechanical Information	Immersion Rod Diameter	Ø2mm	
		Immersion Rod Length	See Product Range, Page 1	
		Cable Entry	M16	
		Sensing Element Position	external, along the immersion rod	
	User Interface Set Point Adjustments		1°C7.5°C	
	Color and Materials	Housing Cover	ABS, transparent	
Technical Information		Housing Botton	PA6 GK30, grey	
		Lock Screws	Screws, Zinc ZLO410 White PA9, white	
		Cable Gland Gland Rubber Seal	White ENSOFT50, RAL9016 (Traffic White	
		Immersion Rod	Copper Capillary	
	Environmental Conditions	Operation Temperature	-25°C+70°C	
Ľ		Operation Humidity	100% r.h., with condensation	
nfo		Transport Temperature	-30°C+70°C	
<u> </u>		Transport Humidity	< 90% r.h.	
nic		Storage Temperature	-10°C+70°C	
ech		Storage Humidity	< 85% r.h., no condensation	
Ĭ	Norms and Directives IP- Rating		IP65 to IEC60529	
	Safety Class		III to EN 60 730	
		Product Standard 1	Automatic Electric. Controls for household and	
			and similar use	
		Product Standard 2	2009/EN 60 730-1	
	CE Conformities to		2004/108/EG Electromagnetic Compatibili	
		CE Electromagnetic Compatibility Emitted	2000/EN60730-1 Emitted Interference	
		Interference	2000/EN00700 1 Ellitted interference	
		CE Electromagnetic Compatibility Interference resistance	2000/EN60730-1 Interference Resistance	
		RoHS Compatibility	RoHS 3, Directive 2015/863	
		Operation Climatic Condition	IEC 60 721-3-3	
		Operation Mechanical Condition	IEC 60 721-3-2 to class2M2	
		Transport to Climatic Condition	IEC 60 721-3-2	
		Transport Mechanical Condition	IEC 60 721-3-2 to class2M2	
		Storage Climatic Condition	IEC 60 721-3-1 IEC 60 721-3-1 to class2M2	
	Terminal Connectic	Storage Mechanical Condition	ILO 00 121-0-1 to diassziviz	
چ	- Similar Sofficetic	1		
cţi		T,		
Connection		1 - 3 Normal Operation		
S		2 - 1 Danger of Frost		
	_	1 3		
nies	Accessories	non		
llan	hipping & Handling Minimum Order		1 box with 1 piece	
Miscellanies		Package Material	Rigid Cardboards Packaging	
Ξ	Order Notes	Order Code	See Product Range, Page 1, e.g. TDE2.CAa	
		All Information and technical data are subject to alteration		

Observe the following general regulation for engineering and implementation:

All relevant national and heavy power regulation

Other country specific regulations

Country-specific regulations

Local electrical supply authority regulation

 ${\bf Schematics, cable\ listings,\ dispositions,\ specification\ and\ arrangements\ from\ the\ customer}$

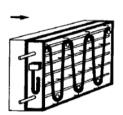
or engineering office in charge

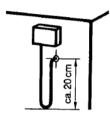
Third party specifications, e.g. general contractors or constructors

Mounting Advices



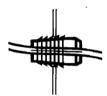












Disposal Notes

The device is considered an electronic device for disposal in terms of the



EUROPEAN DIRECTIVE 2012/19/EU.

The device may not be disposed as domestic garbage.

The device must be disposed through channels provided for this purpose.

It is mandatory to complying with local currently applying laws and regulations.

