

TCM-ZB-D Series

Zigbee Wireless Lighting Module
Line Voltage Control Module with On/Off & 0-10V Dimming

Intelligent Device ECOSYSTEM

Electrical Specifications

Licetifear Speem	ications
Input Voltage Range:	100-277Vac
Frequency:	50/60 Hz Nom. (47-63 Hz Min/Max)
AC Relay Switched Current:	≤9A
AC Relay Inrush Current:	≤60A
Input Current Module Power:	≤0.05A power for control only

Wattage:	800W Max		
Environmental Specifications			
Maximum Case Temp.	72°C		
Operating Temperature:	-5°C to +50°C		
Storage Temperature:	-40°C to +80°C		
Humidity:	5% to 95%		
Cooling:	Convection		
Vibration Frequency:	5 to 55 Hz/2g, 30 minutes		
Impact Resistance:	1g/s		
EMC:	FCC 47CFR Part 15 Class B compliant		
Weight:	3.7oz. (105g)		
MTBF:	418,000 Hours at full load and 40°C ambient conditions per MIL-217F Notice 2		

- 2.4GHz, +20dBM ZigBee transmit power
- ON/OFF and 0-10V Analog Dimming Control, 100mA Sink
- Compatible with LED Drivers & Electronic Ballasts that comply with IEC60929 Annex E2, 0-10V Dimming
- ON/OFF switching up to 277Vac @9A Max
- Stores last dim setting even when driver is powered off by the module
- Dust Proof Design IP50
- ZigBee HA Certified
- Daintree ControlScope Certified
- Gray 5VA PC ABS Plastic Case
- UL Dry & Damp location rated
- Reset Button for use with recommissioning
- Designed for one module per luminaire
- UL2043 Plenum Rated for use in ceiling spaces
- 5 year warranty











Controllers

Model	Description	
TCM-ZB-D	Thomas Control Module - ZigBee Wireless Dimm	ing Control
	Class 2:	US/Canada

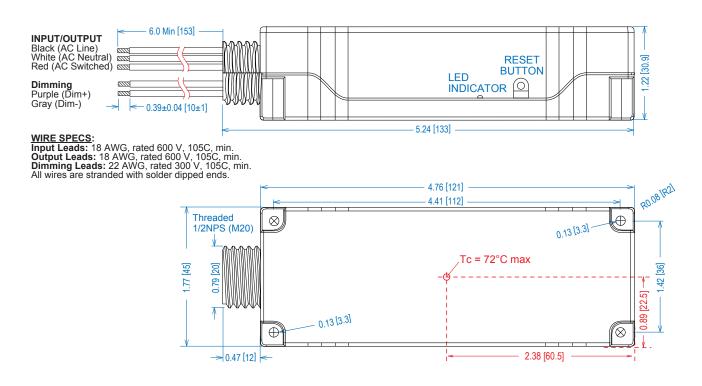
Safety Cert.	Standard
UL/CUL	UL8750 & CAN/CSA C22.2 No. 250.13, UL2043 Plenum Rated
CE	EN 61347-1, EN61347-2-13
EMC Standard	Notes
Withstand Voltage Relay	Input to Output Across Relay Contacts: 700 Vac
Withstand Voltage AC In to Dim Out	Input to DIM: >1750 Vac
Dimming Circuit	UL & cUL Isolated Class 2, Dim+ Purple/Dim- Gray
FCC Part 15	Class B
EN61000-4-5	2kV L-N, 8/20 μsec surge protection



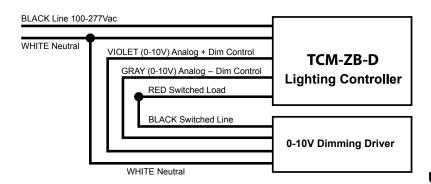
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Dimensions



Typical Application Circuit



UL Conditions of Acceptability

See website for additional information

Reset Operation

Reset Button

The reset button is used to un-join a Zigbee network and reset the TCM-ZB-D to factory defaults. To reset: Press and hold the reset button for 7 seconds. You will hear an internal relay click once reset occurs. The green LED indicator will flash On/Off when not joined to a Zigbee network.

Joined

The green LED indicator will remain ON when TCM-ZB-D has successfully joined a Zigbee network.

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Pg 2 of 2