INSTALLATION MANUAL
TIS RADAR SENSOR
Celling Mount Occupancy Sensor
Model: OS-MMV2-IC

TIS
CONTROL EVERYTHING

ℹ PRODUCT INFORMATION

The TIS Radar Sensor is designed for applications where occupancy detection is essential. It can also be programmed to optimize energy consumption.

PRODUCT SPECIFICATIONS		
Input	Wave Radar	24GHz Millimeter Wave Radar
	Light intensity	Lux meter 0-5000 Lux
	Temp sensor	Resistance Temp sensor
TIS BUS	Number of devices on 1 line	Max. 64
	Bus voltage	12-32 V DC
	Current consumption	<15 mA / 24 V DC
PIR Detection	Antenna range	5-6 meters (installation height 2.6 - 3 meters)
	Antenna angle	65° from the celling down
Operation	Programming button	For assignment of the physical address
	Indicator LED	Blue or Red LED (optional)
	TIS bus	TIS Protocol massages and commands
Functions	Movement /No Movement Logic	20 commands on movement action
	Occupancy No Occupancy Logic	20 commands on occupancy action
	Light intensity	20 commands on light intensity action
	Timer	Timer based for saving energy
Dimensions	Length × Width × Height	60mm × 60mm × 38mm
Housing	Materials	ABS anti fire / PC anti fire
	Casing color	White
	IP rating	IP 20
Air humidity		<85% non-condensing

CE RoHS COMPLIANT PC⁺ ✓ FC

Read Instructions

We recommend that you read this Instruction Manual before installation.

Safety instructions

Electrical equipment should only be installed and fitted by electrically skilled persons.
Failure to follow the instructions may cause damage to the device and other hazards.
These instructions are an integral part of the product and must remain with the end customer.

Programming

Advanced programming requires knowledge of the TIS Device Search software and instruction in the TIS advanced training courses.

Simple Installation

You can use 2 screws to install this sensor on the celling.

Mounting Location

Install in a dry, indoor area with a suitable temperature and humidity range.

Data Cable

Use screened stranded RS485 data cable with four twisted pairs. Configure devices in a "Daisy Chain."
Do not cut or terminate live data cables.

Warranty

There is a two-year warranty provided by law. The hologram warranty seal and product serial number are available on each device.

TIS CONTROL PTY LIMITED
SA, AUSTRALIA

TIS CONTROL LIMITED
Wanchai, Hong Kong

www.tiscontrol.com

⚙ INSTALLATION STEPS

1 》 Turn off the TIS power supply
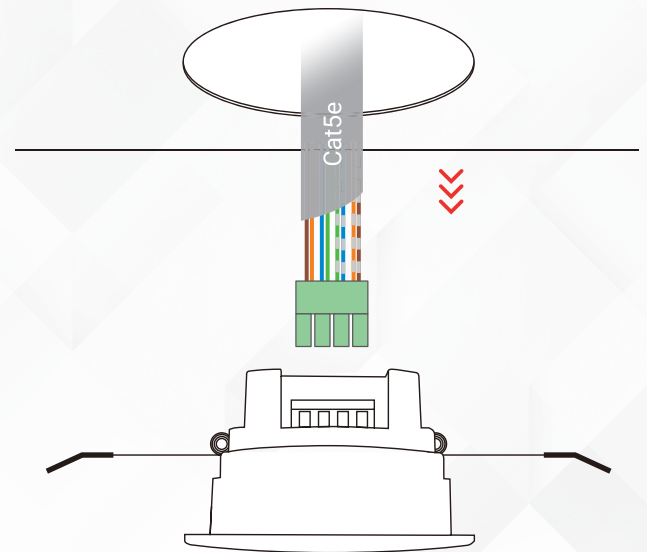
⚡ **WARNING! HIGH VOLTAGE**

2 》 Create a 50mm hole in the ceiling to fit the sensor properly

⌀ 50mm
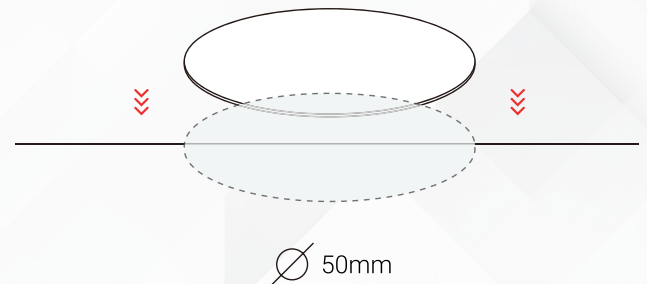
3 》 Attach the TIS-BUS cable to the sensor, ensuring a secure connection

Cat5e

Cat5e connection
- GND(white-orange)&(white-brown)
- D-(white-green)&(white-blue)
- D+(blue-green)
- +24V(brown-orange)

TIS CONTROL PTY LIMITED
SA, AUSTRALIA

TIS CONTROL LIMITED
Wanchai, Hong Kong
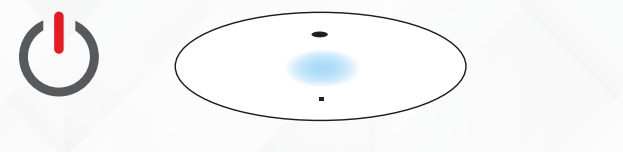
www.tiscontrol.com

⚙ INSTALLATION STEPS

4 ⟫ Push the mounting springs upwards with one hand and insert the mounting springs through the hole; then push the sensor until it is fitted into the ceiling

⌀ 50mm

Cat5e
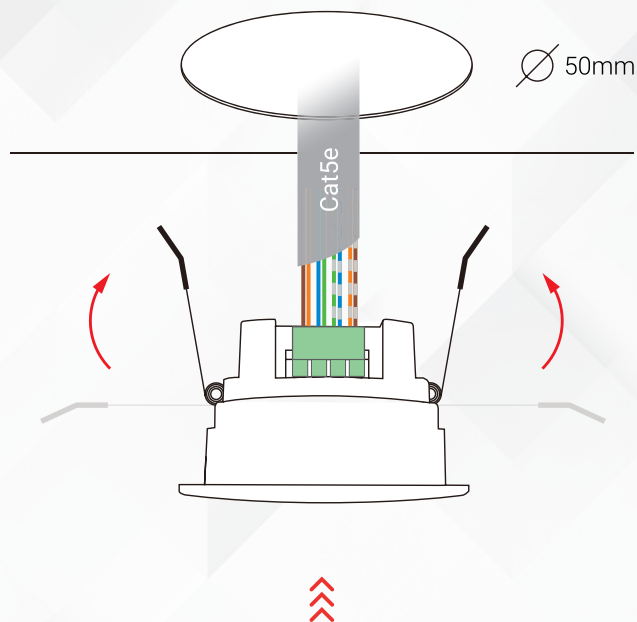
5 ⟫ Turn the power supply ON. The sensor LED should turn on

www.tiscontrol.com

🧰 TROUBLESHOOTING

The sensor's LED blinks rapidly.

Reason: The sensor address conflicts with another device in the TIS network. You need to press and hold on the sensor PCB PRG button for 6 seconds so that the sensor can get a new address.

The sensor's LEDs do not turn ON, and the device is not powered.

Reason: The TIS 24V power supply is not connected to the TIS-BUS.

The sensor fails to control the device channels.

Reason 1: The TIS-BUS connection has a problem, or the wire has a short.

Reason 2: The programming address is faulty.

The sensor LED is always off, but it works fine.

Reason: LED is disabled in the software.

The sensor's sensitivity is not strong.

Reason 1: The sensitivity level is reduced in the software.

Reason 2: The ceiling where the sensor is installed is not high enough.

TIS CONTROL PTY LIMITED
SA, AUSTRALIA

TIS CONTROL LIMITED
Wanchai, Hong Kong

www.tiscontrol.com