

# TORK

## CEILING MOUNT ULTRASONIC OCCUPANCY SENSORS

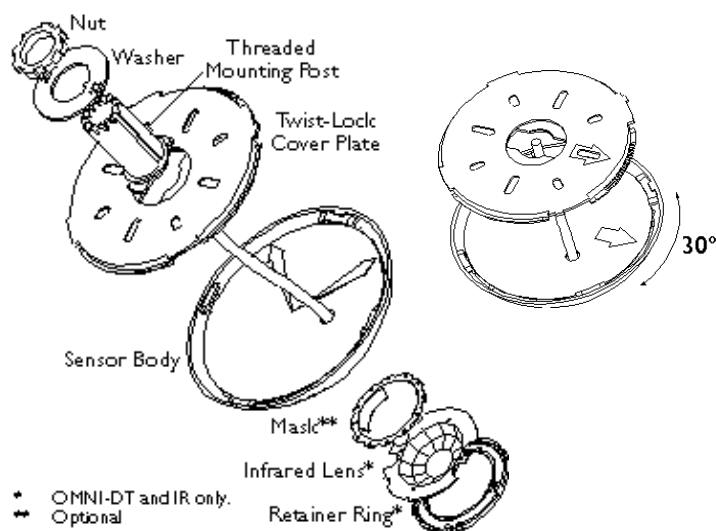
**OSC5U**  
**OSC10U**  
**OSC20U**



### INSTALLATION AND SETUP INSTRUCTIONS

#### COMPONENTS

Match arrows to twist and lock. Cover plate allows for 30° adjustment.



\* OMNI-DT and IR only.  
\*\* Optional

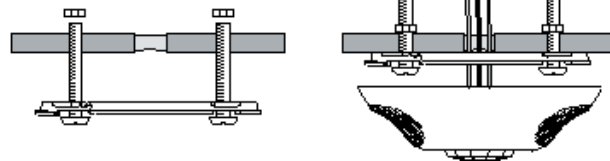
### COVERAGE

OSC5U = 500 sq. ft.  
OSC10U = 1000 sq. ft.  
OSC20U = 2000 sq. ft.

### INSTALLATION: MOUNTING METHODS

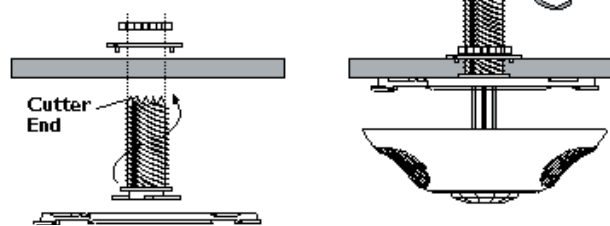
#### MOUNTING METHOD 1

Screw and mount twist-lock cover plate.



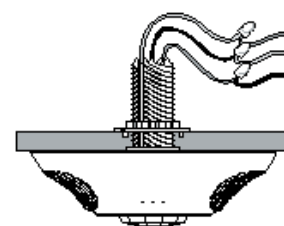
#### MOUNTING METHOD 2

Twist and lock threaded mounting post into cover plate. Drill into ceiling tile.



#### MOUNTING METHOD 3

Run wiring through ceiling tile. Attach sensor body to cover plate by aligning arrows and twist locking into place. Connect wiring with wire nuts.



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**NSi Industries, LLC**  
TORK PRODUCT LABEL  
p/n **OSC5U, OSC10U, OSC20U**  
(L1-777(A) PAGE 1 of 2)  
8.5 x 11  
1C/0

# TORK<sup>®</sup>

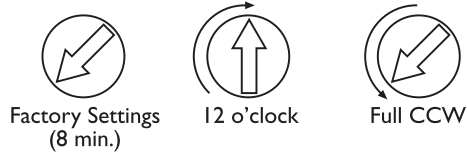
## CEILING MOUNT ULTRASONIC OCCUPANCY SENSORS

**OSC5U**  
**OSC10U**  
**OSC20U**



### TIMER TEST MODE (8 SECONDS)

- 1) Open the retainer ring.
- 2) Rotate the black timer adjustment knob to about midway (12 o'clock)
- 3) Return setting to minimum setting (full CCW).  
NOTE: The timer will remain in the 8 second test mode for 1 hour, then automatically reset to 8 minutes.
- 4) To manually take the timer out of the 8 second test mode, turn the timer adjustment approximately 1/16" clockwise to make the setting slightly above minimum (just above the 8 minute setting).



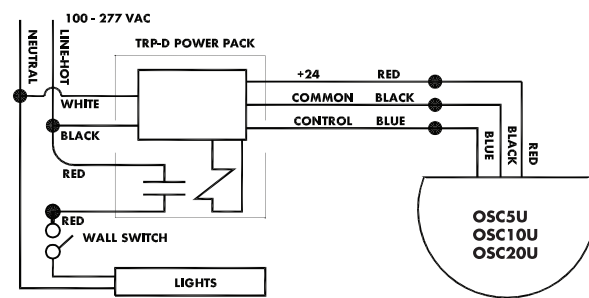
### TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	TEST	RESULT
Lights stay on	Air conditioning interference	Reduce green knob by 15%	Move sensor, temporarily reduce sensitivity
Lights stay off	Bad low voltage wiring	Connect red to blue wire at power pack	Force lights on
Lights stay off	Bad high voltage wiring	Connect red to red (relay wires)	Force lights on
Lights on too long	Timer setting too high	Check switch settings	Typical setting is 8 minutes
Hallway traffic turns lights on	Sensor can "see" into hallway	Put in timer test mode and walk hallway	Move sensor

### WIRE LENGTH CHART

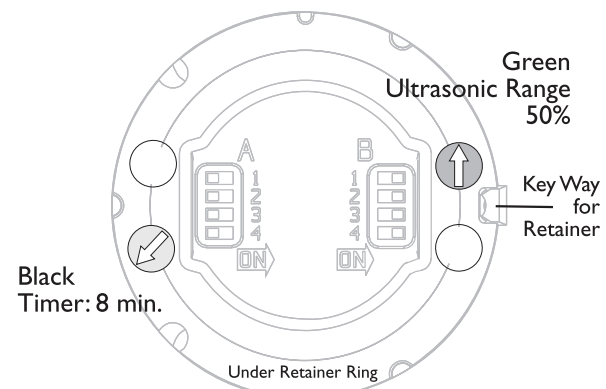
# Sensors # Slaves	1 0	2 0	3 0	1 1	2 1	1 2
22 AWG	750'	375'	250'	375'	250'	250'
20 AWG	1200'	600'	400'	600'	400'	400'
18 AWG	2400'	1200'	800'	1200'	800'	800'

### WIRING



### FACTORY SETTINGS

Model Series: OSC  
Motion Indicator: Only Ultrasonic Green



Recommendation: Leave sensitivity setting as shipped.

### OVERRIDE SETTINGS

Bank A	Off	On
Auto/Manual Threshold	Automatic (Normal)	Manual On (Override)
LED Motion Indicator	Not in use	Not in use
Reset learned Settings	Lights indicate motion	Disable LED Indicator
	Retain Settings (Normal)	Erase All Learned Settings, Restart Learning (Toggle on)
Bank B	Off	On
Strong Airflow Compensation Over Doorway Installation	Disable Compensation (Normal)	Enable Compensation
Timer Adjust	Not in use	Not in use
Auto Sensitivity	Adjust Timer Automatically	Use Manual Timer Setting (No adjustment)
	Adjust Timer Automatically	Adjust Timer Manually