

# TORK OCCUPANCY SENSORS

## ULTRASONIC OCCUPANCY SENSORS

**SC8/SC15**

**SC8 – Covers up to 800 square feet**  
**SC15 – Covers up to 1500 square feet**

### APPLICATIONS

Controls both fluorescent and incandescent lighting systems.  
Controls HVAC electrical equipment – ventilating and exhaust fans, space heaters, self-contained air conditioning units, etc.  
For use in offices, lunch rooms, lavatories, classrooms, storage areas.

### FEATURES

Units operate on 24VDC and are designed to work with the TORK Series TRP Power Packs. The sensors can be remotely located from the Power Pack using Class 2, low-voltage, 3 conductor cables.

### SPECIFICATIONS

#### SC8/SC15 SENSORS

<b>Input Voltage:</b>	Supplied by TRP
<b>Power:</b>	Nominal 23mA
<b>Operating Frequency:</b>	32.7 kHz
<b>Detection Indication:</b>	2 Red LED's
<b>Wiring:</b>	Class 2, #22 AWG pigtail (from sensor to powerpack)
<b>Size:</b>	4-7/8" diameter x 1-5/8" height.
<b>Weight:</b>	7 oz.
<b>Housing:</b>	High impact UL listed material to comply with all flammability rating standards.
<b>Color:</b>	White
<b>Mounting:</b>	Ceiling
<b>Time Delay:</b>	Adjustable from 30 seconds to 30 minutes
<b>Ambient Ranges:</b>	Temperature: 32° to 122°F (0° to 50°C) Humidity: 0 to 95% R.H. non-condensing



Model SC8 / SC15



Model TRP1



### TRP POWERPACKS

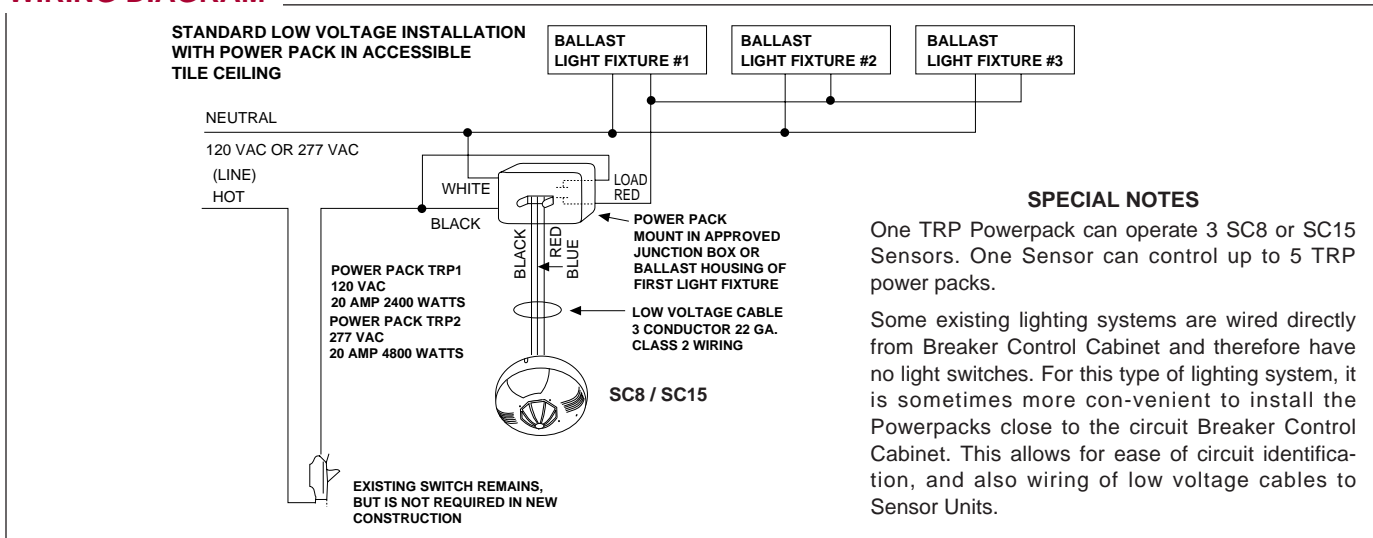
2-13/16" height, 1-5/8" width, 1-1/2" depth

<b>TRP1:</b>	120VAC 20A Ballast 20A Tungsten 20A General Purpose 1.0 HP
<b>TRP2:</b>	277VAC 20A Ballast 20A General Purpose
<b>TRP5:</b>	230VAC 20A Ballast 20A General Purpose 1.5 HP

A TORK TRP POWERPACK MUST BE USED IN CONJUNCTION WITH SENSOR

### TWO YEAR LIMITED WARRANTY

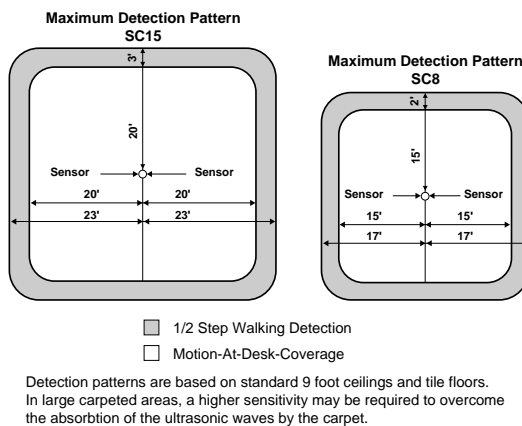
### WIRING DIAGRAM



# TORK OCCUPANCY SENSORS

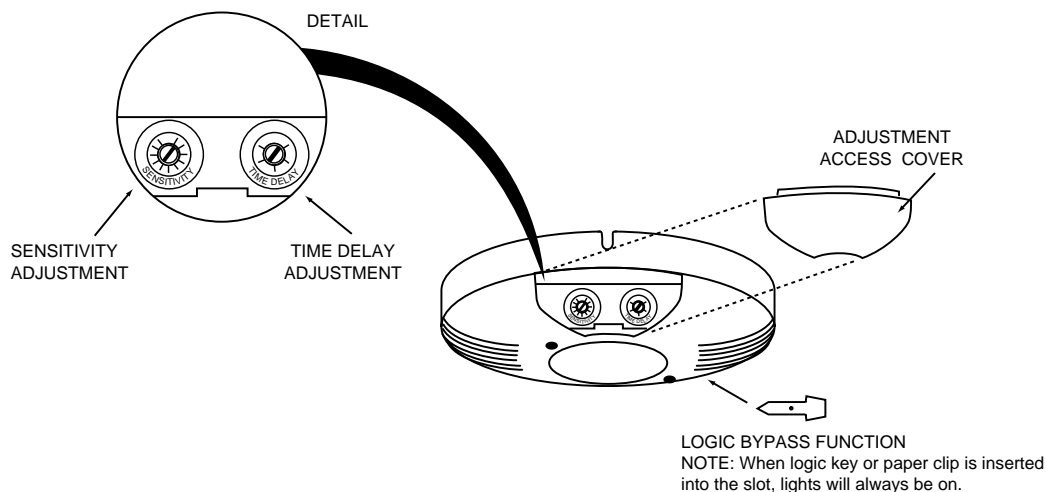
## METHOD OF OPERATION

When someone enters the room in which the SC8/SC15 sensors control the lighting, the lights are turned on automatically, and in this manner, the HVAC can also be controlled. The signal derived activates an adjustable 30-minute timer which activates an electrical relay in the Power Pack, turning the lights on. If no movement or presence is detected for the time selected, the relay deenergizes, turning the lights and HVAC off. Random motions, such as moving mobiles, waving flags, exposed fan blades, etc., could prevent the sensors from resetting and consequently, not turning the lights off and should be taken into consideration before sensor is installed.



TIME DELAY TABLE			SENSITIVITY ADJUSTMENT TABLE		
EXAMPLE OF TIMER SETTINGS IN MINUTES			EXAMPLE OF SETTINGS Ultrasonic Detection		
Stock Room	=	#15	100 SQ/FT Room	=	#1
Hallways	=	#10	300 SQ/FT Room	=	#1.5
Restroom	=	#7	500 SQ/FT Room	=	#2
Office	=	#8	700 SQ/FT Room	=	#3
Classroom	=	#9	900 SQ/FT Room	=	#4
			1000 SQ/FT Room	=	#5

NOTE: For areas larger than 1000 square feet set timer adjustment to #5 and perform walk testing using the actual light fixtures. After the walk testing is completed, set timer adjustment to #15.



## SPECIFICATION WRITER'S GUIDE

Furnish and install where indicated an ultrasonic occupancy sensor capable of covering a maximum area of 800 sq. ft. (SC8) or 1500 sq. ft. (SC15)

Furnish and install a transformer relay powerpack of appropriate input voltage. The remote powerpack shall be capable of installation in a single gang box.

Sensor shall be capable of triggering a maximum of 5 transformer relay power packs. One transformer relay power pack shall be capable of operating up to 3 sensors. Sensor shall be equipped with a sensitivity adjustment and a separate adjustment for delayed time off of 30 seconds to 30 minutes. Sensor shall be designed for mounting onto a wall or ceiling. Sensor and relay transformer powerpack shall be TORK Models SC8 or SC15 and TRP respectively.