

TORK OCCUPANCY SENSORS

ULTRASONIC OCCUPANCY SENSOR

SC20

Covers up to 2000 square feet

APPLICATIONS

Controls:

- Fluorescent and Incandescent Lighting Systems
- HVAC Electrical Equipment
- Ventilating and Exhaust Fans
- Space Heaters
- Self-Contained Air Conditioning Units

For use in:

- Offices
- Classrooms
- Lunch Rooms
- Lavatories
- Storage Areas

A sensitivity control allows for fine-tuning to the precise needs of the area.

Adjustable timer for delayed turn-off.

SPECIFICATIONS

SC20 SENSOR

- Input Voltage:** Supplied by TRP
Power: Nominal 15MA
Wiring: Class 2, #22 AWG pigtail (from sensor to powerpack)
Size: 5" height, 2-7/8" width, 1-3/8" depth.
Weight: 5.25 oz.
Housing: High impact UL approved material with metal base to comply with all flammability rating standards.
Color: White
Mounting: Wall or ceiling
Time Delay: Adjustable from 30 seconds to 15 minutes
Ambient Ranges: Temperature: 32° to 122°F (0° to 50°C)
 Humidity: 0 to 95% R.H. non-condensing

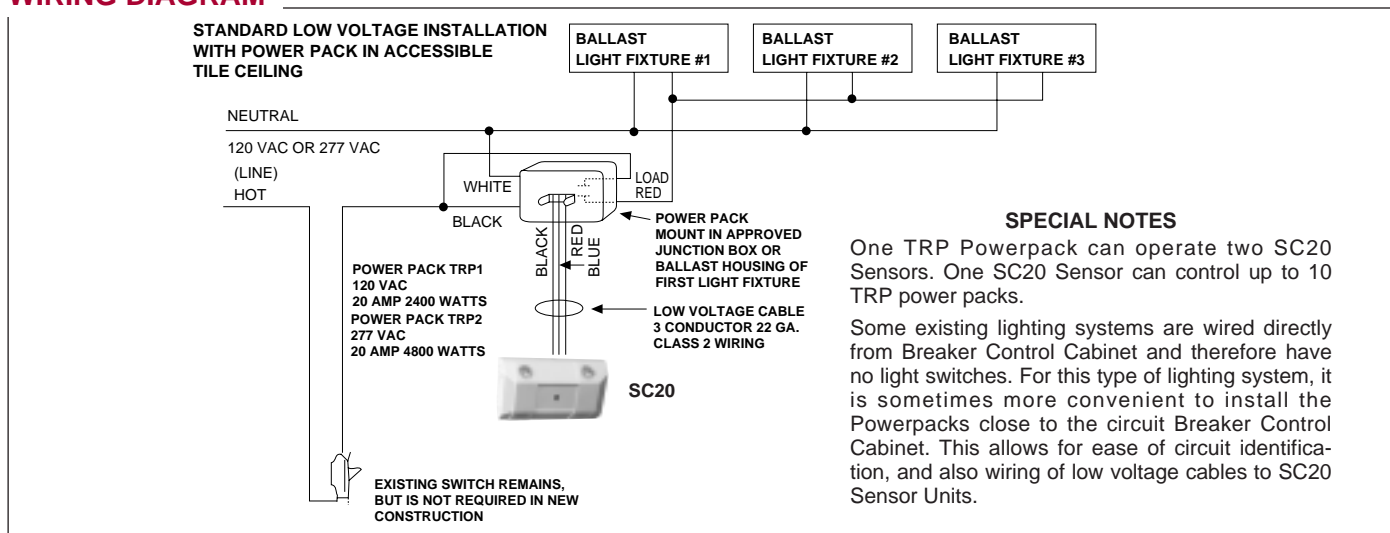
TRP POWERPACKS

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

- TRP1:** 120VAC, 20A Ballast, 20A Tungsten, 20A General Purpose, 1.0 HP
TRP2: 277VAC, 20A Ballast, 20A General Purpose
TRP5: 230VAC, 20A Ballast, 20A General Purpose, 1.5 HP

A TORK TRP POWERPACK MUST BE USED IN CONJUNCTION WITH SC20 SENSOR.

WIRING DIAGRAM



Model SC20

Meets California Energy Commission Title 24 requirements.



Model TRP1



SPECIFICATION WRITER'S GUIDE

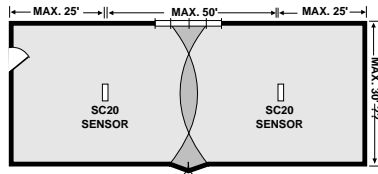
Furnish and install where indicated an ultrasonic occupancy sensor capable of covering a maximum area of 2000 square feet.

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

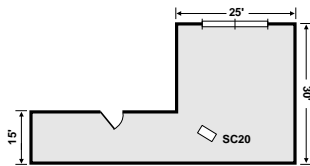
Sensor shall be capable of triggering a maximum of 10 transformer relay power packs. One transformer relay power pack shall be capable of operating up to 2 sensors. Sensor shall be equipped with a sensitivity adjustment and a separate adjustment for delayed time off of 30 seconds to 15 minutes. Sensor shall be designed for mounting onto a wall or ceiling. Sensor and relay transformer powerpack shall be TORK Models SC20 and TRP respectively.

TORK OCCUPANCY SENSORS

AREA COVERAGE

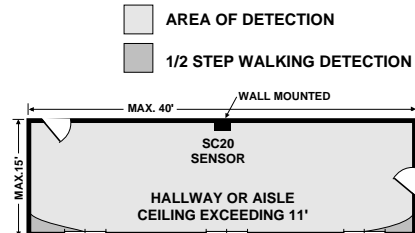
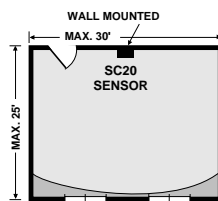
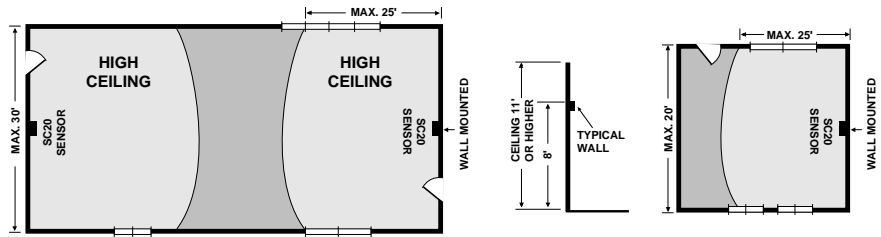


- MOTION-AT-DESK COVERAGE
- 1/2 STEP WALKING DETECTION



Note: In rooms that have random motion such as moving mobiles, waving flags, exposed fan blades such as computer rooms, use passive infrared motion sensor such as Model PC10 which is not affected by these motions.

Note: At times it is more convenient to install sensor at 8'-9' height on walls because ceilings may be 20' or more such as courtrooms, auditoriums, etc.



- AREA OF DETECTION
- 1/2 STEP WALKING DETECTION

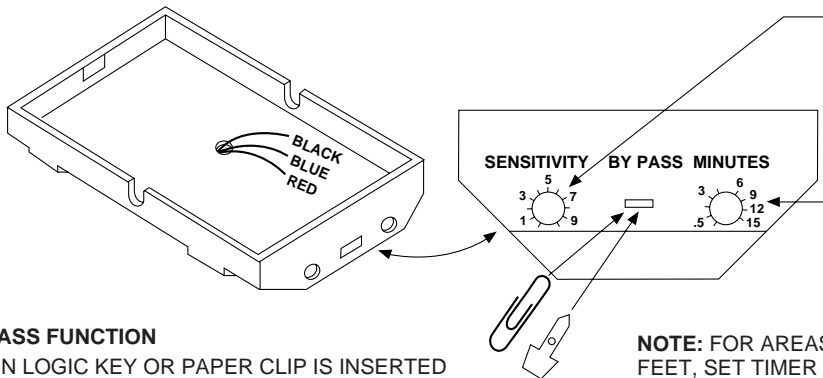
SENSITIVITY ADJUSTMENT AND BYPASS FUNCTION

NOTE: WHEN MORE THAN ONE SC20 IS USED IN THE SAME ROOM, REDUCE SENSITIVITY SETTING BY 50%. THE REASON IS THAT UNITS COMPLIMENT EACH OTHER AND TOTAL ROOM SENSITIVITY IS ENHANCED.

APPROXIMATE SENSITIVITY ADJUSTMENT

- Model SC20**
- 100 SQ/FT room = #1
 - 300 SQ/FT room = #2
 - 500 SQ/FT room = #3
 - 700 SQ/FT room = #4
 - 900 SQ/FT room = #5
 - 1000 SQ/FT room = #6

- EXAMPLE OF TIMER SETTINGS IN MINUTES
- STOCK ROOM = #15
 - HALLWAYS = #10
 - CLASSROOM = #9
 - OFFICE = #8
 - RESTROOM = #7



LOGIC BYPASS FUNCTION

NOTE: WHEN LOGIC KEY OR PAPER CLIP IS INSERTED INTO THE SLOT, LIGHTS WILL ALWAYS BE ON. THERE IS NO SHOCK HAZARD PRESENT WHEN USING A LOGIC KEY OR A PAPER CLIP. THIS BYPASS FUNCTION IS FOR EMERGENCY USE ONLY.

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.

OCCUPANCY SENSORS