Wiring Schematics

Sensors

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Plug Load

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Notes:
1. Sensor is shipped with all dip switches in the OFF position (Factory Default)
Notes:
1. If only controlling 1 load, use Black, Red, and Green wires
2. Black and Red wires operate through Button 1
3. Blue and Violet wires operate through Button 2
Sensors connected in parallel loops

NOTES:
1. This is a ground-leakage powered sensor. It must be grounded to function.
Notes:
1. If only controlling 1 load, use Black, Red, and Green wires
2. Black and Red wires operate through Button 1
3. Blue and Violet wires operate through Button 2
Hot

Black (Line)

Green (Ground)

Yellow (not used)

Red (Load)

Neutral

* Yellow wire only available on units with true 3-way capability.
DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack. 4 Devices at 33mA = 132 mA

Three Circuits with 5 Sensors
DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack. 4 Devices at 33mA = 132 mA

Low Voltage Sensors (devices)
Requires 33 mA

Three Circuits with 4 Sensors
DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack. 4 Devices at 33mA = 132 mA

Low Voltage Sensors (devices) Requires 33 mA

Three Circuits with 3 Sensors
DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack. 4 Devices at 33mA = 132 mA

Three Circuits with 2 Sensors
NOTES:

1. Lighting Loads A and B turn on when at least one sensor detects motion.

2. DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack.

3. No more than 3 power packs should be connected this way.

2 Circuits with 4 to 8 Sensors
2 Circuits with 4 Sensors and Power Packs

NOTES:

1. Lighting Loads A and B turn on when at least one sensor detects motion.

2. DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack.

3. No more than 3 power packs should be connected this way.
Power Pack
Supplies 150mA each
Slave Pack draws 33mA

Power Pack rated for 20 Amps.

Red (+24VDC @ 150mA)
Black (common)
Blue (control)

NOTES:
1. Lighting Loads A and B turn on when at least one sensor detects motion.
2. DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack.
3. No more than 3 power packs should be connected this way.

2 Circuits with 1 to 3 Sensors
NOTES:

1. Lighting Loads A and B turn on when at least one sensor detects motion.

2. DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack.

3. No more than 3 power packs should be connected this way.
Power Pack Supplies 150mA each

Power Pack rated for 20 Amps.

Red (+24VDC @ 150mA)
Black (common)
Blue (control)

Low Voltage Sensors (devices) Require 33mA each

NOTE:

1. DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack.

One Circuit with 1 to 4 Sensors
Power Pack
Supplies 150mA each

Sensors with RP Option

Power Pack rated for 20 Amps.
Red (+24VDC @ 150mA)
Black (common)
Blue (control)

Override Switch (optional)

Ground
Neutral
Hot

Lighting Load

Red
Black
Blue

Grey (control + photocell)
Blue/White (Relay Common)
Black/White (Relay Normally Closed)
Yellow/White (Relay Normally Open)

Grey (control + photocell)
Blue/White (Relay Common)
Black/White (Relay Normally Closed)
Yellow/White (Relay Normally Open)

Sensors with RP Option

Low Voltage Sensors (devices) Require 33mA each

DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack.
4 Devices at 33mA = 132mA

1 Circuit RP Option Wiring

HUBBELL
Power Pack Supplies 150mA each. Power Pack contacts rated for 20 Amps.

Slave Pack Requires 33mA each.

Red (+24VDC @ 150mA)
Black (common)
Blue (control)

DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack. 4 Devices at 33mA = 132 mA

Using Slave Packs to Switch Common Fan in 2 Restrooms
1. DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack.
Power Pack

Photo sensor (3 wire)

Daylight Control Unit

PLEASE NOTE: When using 3-wire sensor, operation of the Daylight Control Unit is reversed from labeling on unit. Use N.C. connection and setpoints as shown

Daylight Zone Wiring

Low Voltage Sensor

Lighting Load - Occupancy Only Control

Lighting Load - Occupancy + Photocell Control

Red (+24VDC @ 150mA)
Black (common)
Blue (control)

Daylight Control Unit

Setpoints

N.O. N.C.
Low
High

Yellow
Black
Red
Red (24VDC @ 150mA)  Black (common)  Blue (control)

Daylight Control Unit  Power Pack
Supplies 150mA each

Override Switch (optional)

Red (24VDC @ 150mA)  Black (common)  Blue (control)

Daylight Control Unit
Setpoints
N.O.  N.C.
Low  High

Photo Sensor (3 wire)

Yellow  Black  Red

PLEASE NOTE: When using 3-wire sensor, operation of the Daylight Control Unit is reversed from labeling on unit. Use N.C. connection and setpoints as shown.
Daylight Control Unit

Photo sensor (3 wire)

Power Pack
Supplies 150mA each

DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack.

PLEASE NOTE: When using 3-wire sensor, operation of the Daylight Control Unit is reversed from labeling on unit. Use N.C. connection and setpoints as shown.

Daylight Control Unit with Occupancy Sensor

Low Voltage Sensors (devices) Requires 33mA each
Power Pack Supplies 150mA each

PLEASE NOTE: When using 3-wire sensor, operation of the Daylight Control Unit is reversed from labeling on unit. Use N.C. connection and setpoints as shown.

DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack.

NOTE: Use no more than 2 Photocell Sensors per Daylight Control Unit

Low Voltage Sensors(devices) Requires 33mA each

Daylight Control Unit

Override Switch (optional)

Red (24VDC @ 150ma)
Black (common)
Blue (control)

Red Red Black White
Red Red Black White

Photo sensor (3 wire)

Daylight Control Unit w/ Occupancy Sensor and Dual Lighting

HUBBELL
Red (+24VDC @ 150mA)
Black (common)
Blue (control)

Yellow Black Red

Red Red Black White

Override Switch (optional)

Red (+24VDC @ 150mA)
Black (common)
Blue (control)

Daylight Control Unit

Photo Sensor (3 wire)

Power Pack
Supplies 150mA each

Daylight Control Unit

Photo Sensor (3 wire)

PLEASE NOTE: When using 3-wire sensor, operation of the Daylight Control Unit is reversed from labeling on unit. Use N.C. connection and setpoints as shown
Low Voltage Sensors (devices)

Requires

33mA

Power Pack

Supplies 150mA each

Red (+24VDC @ 150mA)

Red

Violet

Black (common)

Blue (control)

Ground

Nuetral

Hot

Dimming Ballast

 Override Switch (optional)

Dimming Ballast

Violet

Grey

Dimming Ballast

Photo Sensor

Up to **50 ballasts** can be controlled by the Dimming Ballast Photo Sensor

Power Pack

rated for 20 Amps.

DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack.

4 Devices at 33mA = 132 mA

1 Circuit with 1 to 4 Sensors and Auto Dimming Photo Sensor

Low Voltage Sensors (devices) **Requires** 33mA

HUBBELL
Power Pack rated for 20 Amps

Power Pack Supplies 150mA each

Up to 50 ballasts can be controlled by the Dimming Ballast Photo Sensor

Low Voltage Sensors (devices) Required 33mA

DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack. 4 Devices at 33ma = 132 ma

Red (+24VDC @ 150mA)
Black (common)
Blue (control)

override switch (optional)

1 Circuit with 1 Sensor RP and Auto Dimming Photo Sensor