

MAXX™ Harsh Environments Sensing Devices



**Extra Duty Energy Saving Controls
for Extreme Temperature Environments**

Eliminate Wasted Energy In Extreme Conditions

Typical energy efficiency controls are designed for indoor, clean, environmentally controlled areas. Hubbell created MAXX™ to provide tough energy management controls for harsh and demanding environments where traditional products may not survive. Properly installed controls can lead to significant savings in these environments.

Wet and Damp

MAXX™ sensors are designed for use in areas where there will be exposure to spray, wash down, moisture, and precipitation. Match the NEMA or IP rating to your application to ensure optimum performance.



Cold and Hot - Go to the Extreme!

MAXX™ sensors and control packs provide an expanded operating temperature range from -40°F to 149°F (-40°C to 65°C). This supports cold storage, freezer, outdoor, and unconditioned spaces found in industrial environments.



Outdoor and Unconditioned

The AHP1600WRP and IP66 fixture mount MAXX™ sensors are specifically UL rated for outdoor use. These units provide control solutions for exterior lighting, parking garages, loading docks and public rest rooms.


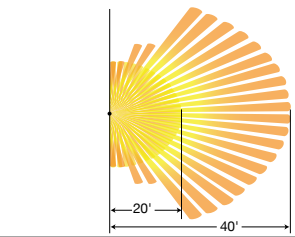

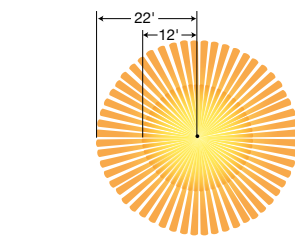

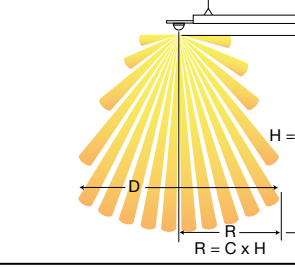
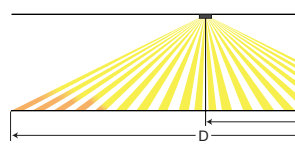


High and Reactive Loads

The CU300HD MAXX™ control unit and the AAR20P auxiliary relay incorporates a high performance mechanical latching relay. This enables full 20A general purpose switching to support many types of lighting, motor, and plug loads.



MAXX™ sensors come with different enclosure ratings and features to support a broad range of applications. Match the product specifications below to your requirements. Utilize units with isolated low voltage relays to signal occupancy or vacancy to HVAC and other automation systems.

| Image | Enclosure Rating | Coverage | Mounting Style |
|---|-----------------------------------|---|--|
|  AHP1600WRP with HAP1 | TYPE 4X / IP66 & Outdoor |  | Wall or Pendant 160° View |
|  AHP1500CRP with ACIPE | NEMA 4X |  | Ceiling Mount 360° View |
|  HBSXT13 | NEMA 3R / IP65 & Outdoor High Bay |  | Fixture or Junction Box 360° View Optional: 180°, Aisle, End-of-Aisle Views |
| | NEMA 3R / IP65 & Outdoor Low Bay |  | Optional: 180°, Aisle, End-of-Aisle Views |

High Bay Lens Coverage
C = 1.4 @ 00–30 and 1.1 @ 30–45 (FT)

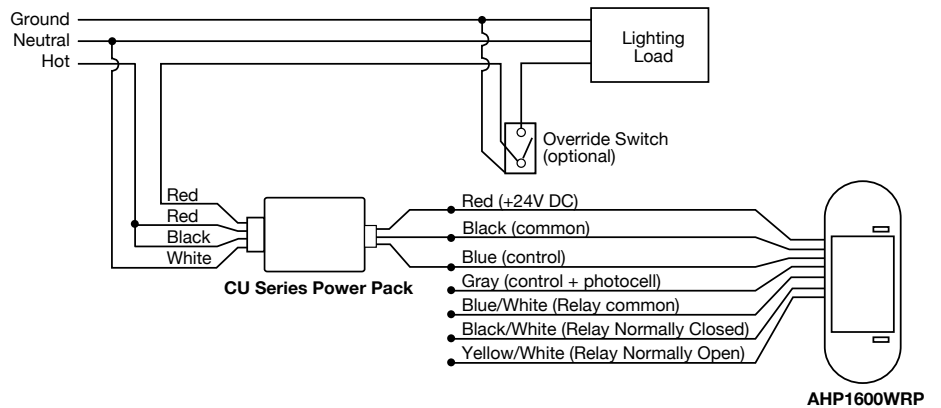
| Height (H) | Radius (R) | Diameter (D) |
|------------|------------|--------------|
| 18 | 25.2 | 50.4 |
| 20 | 28 | 56 |
| 24 | 33.6 | 67.2 |
| 28 | 39.2 | 78.4 |
| 30 | 42 | 84 |
| 32 | 35.2 | 70.4 |
| 36 | 39.6 | 79.2 |
| 40 | 44 | 88 |
| 42 | 46.2 | 92.4 |
| 45 | 49.5 | 99 |

Low Bay Lens Coverage
3:1 Ratio (FT)

| Height (H) | Radius (R) | Diameter (D) |
|------------|------------|--------------|
| 8 | 24 | 48 |
| 10 | 30 | 60 |
| 12 | 36 | 72 |
| 14 | 42 | 84 |
| 16 | 48 | 96 |

Properly Mount and Position Sensors

MAXX™ sensors utilize digital passive infrared (PIR) technology to sense human body heat in motion. These sensors need to have line of site to sense occupancy. For optimum performance, they must be mounted and positioned properly. Use the mounting adaptors where applicable and utilize multiple sensors with overlapping coverage for increased sensitivity.



Pendant Mount



Housing Design

- IP66, TYPE 4X, outdoor rated
- Housing manufactured from chemical resistant thermoplastic
- Multiple mounting kits for existing work boxes and hubs; pendant or wall mounting flexibility



Protection

- Integrated lens guard protects against accidental damage
- Photocell makes sure lights stay OFF when there is sufficient daylight
- Isolated relay provides signalling to HVAC and ventilation systems



Access Cover

- Stainless steel hardware and settings access cover

Fixture Mount



Housing Design

- IP65, NEMA 3R watertight, and outdoor rated
- Fixture or work box mounting with 1/2" threaded nipple



Coverage and Electrical Ratings

- Digital passive infrared (PIR) sensor
- Two (upward/downward) photocells options for daylight harvesting
- Supplied with 360° lens; aisle, end-of-aisle and 180° lenses available separately
- -40°F to 149°F (-40°C to 65°C) operating temperature range; compatible with CFL/LED and motor loads

TYPE 4X Outdoor, Passive Infrared Wall Mount Sensor

| Description | Voltage | Catalog Number |
|--|---------|-------------------|
| PIR sensor, with isolated relay and photocell. | 24V DC | AHP1600WRP |
| Adaptor plate for single gang FS boxes. | — | HAP1 |
| Adaptor hub and nipple for Killark® NJ series boxes. | — | HAP2 |
| Adaptor plate for Killark® NV series boxes. | — | HAP3 |
| 1/2" NPT threaded hub. | — | HAP4 |

Extreme Temperatures Passive Infrared Ceiling Mounted Sensor

| Description | Voltage | Catalog Number |
|---|---------|-------------------|
| Sensor with isolated relay and photocell. | 24V DC | AHP1500CRP |
| NEMA 4X enclosure. | — | ACIPE |

Heavy Duty Control Unit

The CU300 series provides 24V DC power supply for sensors or sensor/Add-A-Relay combinations. The control units contain an internal relay for the control of an external load. Control units are plenum rated cULus Listed.

| Description | Catalog Number |
|---|----------------|
| Auto or manual ON operation, 100-277V AC, 50/60Hz. | CU300HD |
| Auto or Manual ON operation, 100-277V AC 50/60Hz. Requires a CU300 series, heavy duty latching relay. | AAR20P |

OPTIMYZER® Watertight High Bay and Low Bay End Mount PIR Sensors

| Description | Voltage | Standard | 0-10V Dimming |
|-------------------------------------|--------------|----------------|-----------------|
| Single relay with photocell. | 120-347V AC | HBSXT13 | HBSXT13D |
| 2 relays with photocell. | 120-347V AC | HBSXT23 | — |
| 1 double pole relay with photocell. | 208, 240V AC | HBSXT28 | HBSXT28D |
| 1 double pole relay with photocell. | 480V AC | HBSXT48 | HBSXT48D |
| Low voltage with photocell. | 24V DC | HBSXT24 | HBSXT24D |

Note: 360° high bay lens included. Low bay lens options sold separately, see below for details.

Replacement Lenses

| Description | High Bay | Low Bay |
|--------------------|------------------|------------------|
| 180° lens. | HBRLXT180 | LBRLXT180 |
| 360° lens. | HBRLXT360 | LBRLXT360 |
| Aisle lens. | HBRLXTA | LBRLXTA |
| End of aisle lens. | HBRLXTEA | LBRLXTEA |



AHP1600WRP



AHP1500CRP with ACIPE



CU300HD



HBSXT13