

MAXX[™] Harsh Environment Sensors
OPTIMYZER[®] Indoor/Outdoor Watertight Sensors



**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™ and OPTIMYZER® 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.


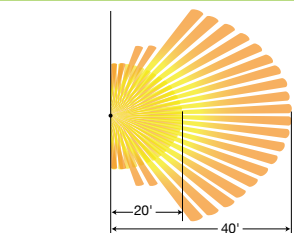

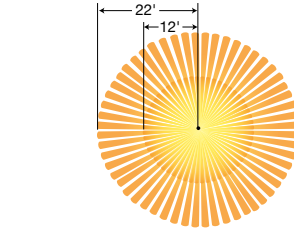

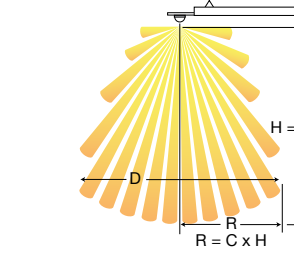
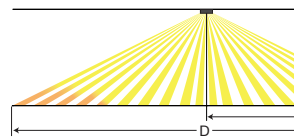


High and Reactive Loads

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)

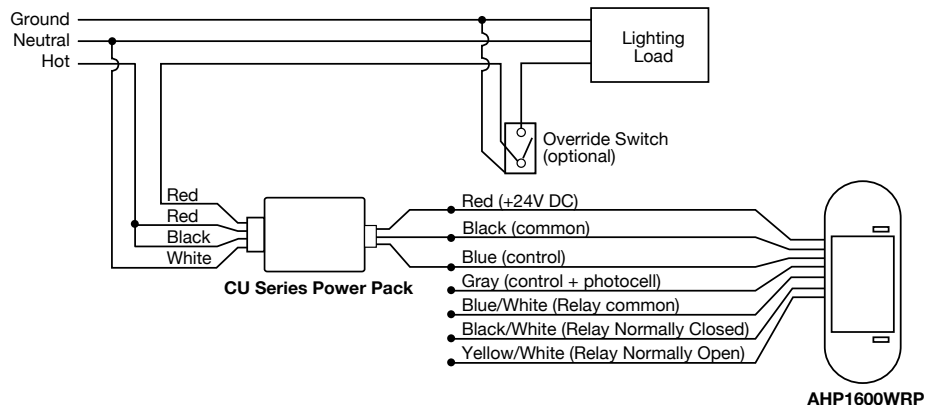
Height (H)	Radius (R)	Diameter (D)
18	25.2	50.4
20	28	56
24	33.6	67.2
28	39.2	78.4
30	42	84
32	35.2	70.4
36	39.6	79.2
40	44	88
42	46.2	92.4
45	49.5	99

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

OPTIMYZER End Mount & Surface Mount



Housing Design

- IP65, NEMA 3R watertight, and outdoor rated
- End Mount Models: Fixture or work box mounting with ½" threaded nipple
- Surface Mount Models: Fixture or compatible electrical box with 2.75" on center mounting holes



Coverage and Electrical Ratings

- Digital passive (PIR) sensor
- Integrated photocells for daylight harvesting:
End Mount: Two (upward/downward)
Surface Mount: One (downward)
- 0-10v dimming models available
- 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
½" 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 PIR Sensors with Photocells

IP65, NEMA 3R, outdoor rated, -40°F to 149°F (-40°C to 65°C) operating temperature range

Description	Voltage	Standard	0-10V Dimming
Single relay end mount	120-347V AC	HBSXT13	HBSXT14D
2 relays end mount	120-347V AC	HBSXT23	—
1 double pole relay end mount	208, 240V AC	HBSXT28	—
1 double pole relay end mount	480V AC	HBSXT48	—
Low voltage end mount	24V DC	HBSXT24*	HBSXT24D*
Single relay surface mount	120-480V	—	HBSXT14DSM
Low voltage surface mount	24V DC	—	HBSXT24DSM*

360° high bay lens included. Low bay lens options sold separately. | *For use with CU300HD (120/277V AC, 50/60Hz) control unit.

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