AHAC-DT – MicroSet dual tech low/line voltage ceiling sensors

ſ	Project Name:	Prepared By:
ſ	Project Number:	Date:
	Catalog Number:	Туре:



AHAC-DT



AHSP20-MV

Ceiling sensors description

The dual technology sensor's combination of ultrasonic and passive infrared technologies offers the most complete sensing equipment available today. MicroSet self-adjusting dual technology sensors drastically simplify and reduce a contractor's installation and adjustment time period.

Design features

- · MicroSet self-adjusting time delay and sensitivity
- Products tested to NEMA WD 7 2011 Occupancy Motion Sensors Standard
- Built-in light level sensor (Low voltage only)
- BAS/HVAC isolated relay (Low voltage only)
- · Selectable walk-through mode (Low voltage only)
- Dual relay control (Low voltage only)
- Units available for control of single or two separate loads (Line voltage only)

Table 1. MicroSet dual tech - line voltage ceiling sensor

Catalog no.	Coverage	Field of view	Frequency	Features
AHAC-DT-2000-MV	2000 sq. ft.	Two way (360°)	32 kHz	With daylight sensor
AHAC-DT-2000-DMV	2000 sq. ft.	Two way (360°)	32 kHz	Dual relay with daylight sensor
□ AHAC-STEM	_			_

Table 2. MicroSet dual tech - low voltage ceiling sensor

Catalog no.	Coverage	Field of view	Frequency	Features
□ AHAC-DT-2000	2000 sq. ft.	Two way (360°)	32 kHz	
□ AHAC-DT-1000	1000 sq. ft.	Two way (360°)	32 kHz	_
□ AHAC-DT-0501	500 sq. ft	One way (180°)	40 kHz	_
AHAC-STEM		—		_

Table 3. Heavy duty switchpack

Catalog no.	Description	Features
□ AHSP20-MV*	Heavy duty switchpack	Capable of switching up to 20A

*For more information about switchpack visit our website at www.eaton.com/wiringdevices

Compliances, specifications and availability are subject to change without notice.



Project Name:	Prepared By:	
Project Number:	Date:	
Catalog Number:	Type:	

Applications

Table 4. Specifications

The MicroSet self-adjusting technology continuously monitors multiple sub-frequencies in the event that if a continuous Doppler shift occurs, such as those created by airflow from an air duct, the sensor will identify the noise as continuous and then block it out of view at a select sub-frequency. It will continue to monitor other sub-frequencies for human motion. This avoids false-activation, while still maintaining the high level of sensitivity that is necessary for sensing minor motion in a changing environment. Separate concurrent time delays for both Passive Infrared and Ultrasonic technologies avoid false activations or deactivations. In Automatic ON Mode, the lights turn ON when a person enters the room.

Catalog no.	AHAC-DT - low voltage series	Catalog no.	AHAC-DT - line voltage series	
Technology	Passive Infrared (PIR) and Ultrasonic (US)	Technology	Passive Infrared (PIR) and Ultrasonic (US)	
Power Requirements	Input 10-30 VDC from Greengate Switchpack or Greengate system Maximum current needed is 25mA per sensor	Power Requirements	120 to 347 V/AC, 50/60 Hz - Neutral required 120 V/AC Incandescent/Tungsten - 0 to 800W, 50/60 Hz Fluorescent/Ballast - 0 to 1200W, 50/60 Hz	
	Output Open collector output to switch up to ten Greengate Switchpacks Isolated Form C Relay Ratings: 1A 30 VDC/V/AC		Motor Load: 1/4 HP @ 125 V/AC 230 V/AC Fluorescent/Ballast - 0 to 1200W, 50/60 Hz 277 V/AC	
Time Delays	Self-adjustable, 15 seconds/test (10 minutes Auto), or Selectable 5, 15, 30 minutes, or Zero Time Delay		Fluorescent/Ballast - 0 to 2700W, 50/60 Hz 347 V/AC Fluorescent/Ballast - 0 to 1500W, 50/60 Hz	
Coverage 500, 1000, and 2000 sq. ft.		Time Delays	Self-Adjusting, 15 seconds/test (10 minutes Auto),	
Light Level Sensing 0 to 300 foot-candles		Time Delays	or Selectable 5, 15, 30 minutes	
Operating Environment	Temperature: 32°F - 104°F (0°C - 40°C)	Coverage	2000 sq. ft	
	Relative humidity: 20% to 90%, non-condensing (For indoor use only)	Light Level Sensing	0 to 300 foot-candles	
Housing Durable, injection molded housing. Polycarbonate resin complies with UL 94V-0		Operating Environment	Temperature: 32°F - 104°F (0°C - 40°C) Relative humidity: 20% to 90%, non-condensing (For indoor use only)	
Size	1.42"H x 4.5"W (36.068mm x 114.3mm)	Housing	Durable, injection molded housing. Polycarbonate	
Mounting	Mounts directly to ceiling tile, to a 4" square box	nousing	resin complies with UL 94V-0	
	and round mud ring or to 4" octagon box	Size	1.42"H x 4.5"W (36.068mm x 114.3mm)	
LED Indicators	Red LED for PIR detection; Green LED for Ultrasonic detection	Mounting	Mounts directly to ceiling tile, to a 4" square box and round mud ring or to 4" octagon box	
Standards	FCC Compliant cULus Listed RoHS Compliant	LED Indicators	Red LED for PIR detection; Green LED for Ultrasonic detection	
		Standards	FCC Compliant cULus Listed RoHS Compliant	

Table 5. Specifications

Table 6. Color information





White

AHAC-DT – MicroSet dual tech low/line voltage ceiling sensor

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Туре:

Wiring diagrams

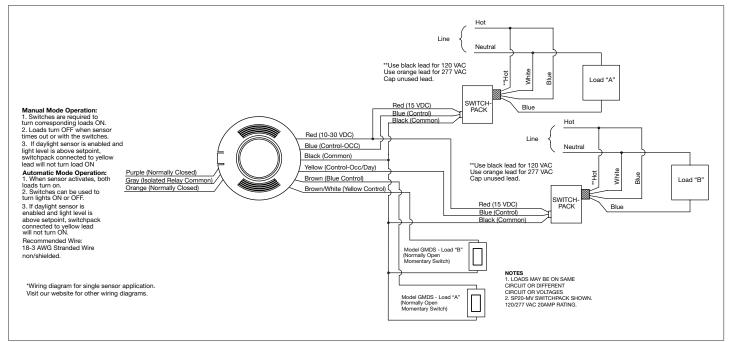


Figure 1. AHAC-DT-2000 Model

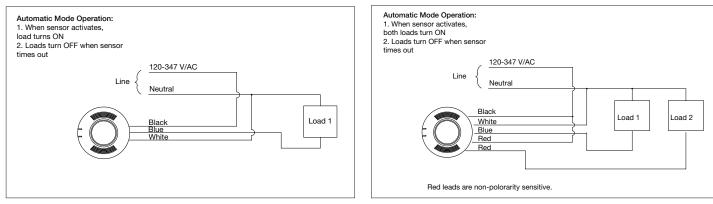


Figure 2. Single relay - line voltage series

