

Applications

Occupancy detector with tri-level control suitable for indoor use.


Suitable for building into the fixture:

- Office / Commercial Lighting
- Meeting room
- Classroom
- Warehouse (HC430S/R)

Use for retrofit or new luminaire designs/installations



Features

 Zero crossing detection circuit reduces in-rush current and prolongs relay life

 5 Year, 50,000hr Warranty

Technical Data

Input Characteristics

Model No.	HC030S HC430S/R
Mains voltage:	
HC030S	220~240VAC 50/60Hz
HC430S/R	120~277VAC 50/60Hz
Stand-by power	0.5W
Load ratings	800W (capacitive)
Warming-up	20s

Safety and EMC

EMC standard (EMC)	EN55015, EN61000
Safety standard (LVD)	EN60669-1
Radio Equipment (RED)	EN300440, EN301489, EN62479
Certification	Semko, CB, CE, EMC, RED, SAA

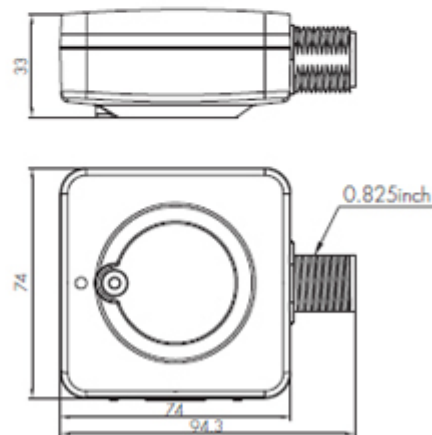
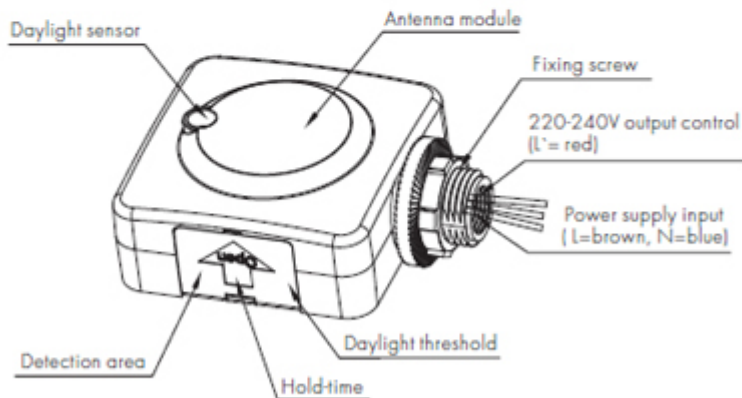
Sensor Data

Model No.	HC030S HC430S/R
Sensor principle	High Frequency (microwave)
Operation frequency	5.8GHz +/- 75MHz
Transmission power	< 1mW
Detection range:	
HC030S	Max. (Ø x H) 12m x 6m
HC430S/R	Max. (Ø x H) 16m x 15m
Detection angle	30° ~ 150°
Setting adjustments:	
Sensitivity	10% / 25% / 50% / 75% / 100%
Hold-time	5s ~ 30min (selectable)
Daylight threshold	2 ~ 50 lux, disabled

Environment

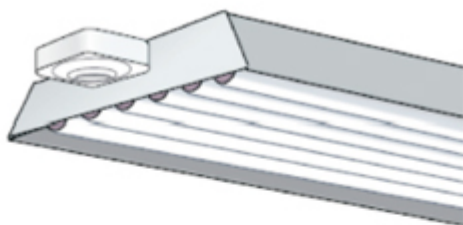
Operating temperature	T _{amb} : 0°C ~ 40°C
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Operation temperature	Ta: -20°C ~ +60°C
Case temperature (Max.)	Tc: +80°C
IP rating	IP20

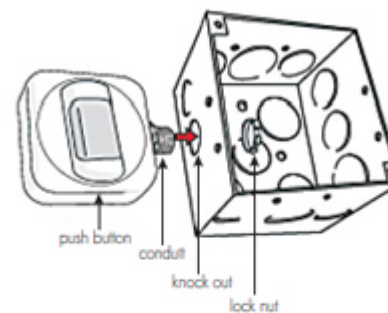


HC030S: L=brown, N=blue, l'=red HC430S/R: L=black, N=white, l'=red

This sensor is particularly designed for installation on the outside of a fixture, where a metallic body or louvre would block and interfere with the microwave detection.



Attach to metal fixture



Attach to junction box



An optional external metal conduit is available to be added on the plastic conduit to increase the length, in case the conduit is not long enough to go



through the metal wall, where this is a thick recessed area for IP 65 protection.

Double insulation cable is also available for easy retrofit.

