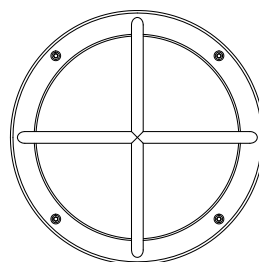
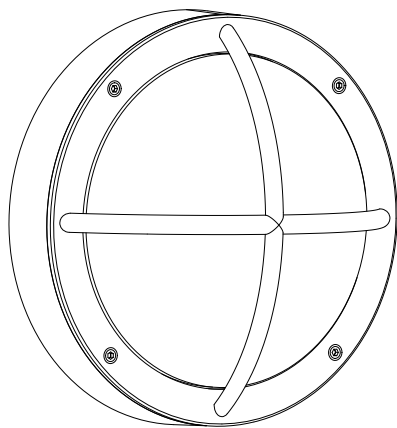
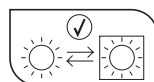




RONDANE MD

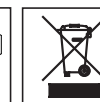
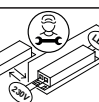
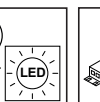
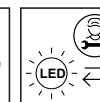
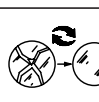


Ø260

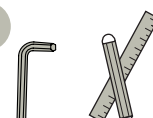


105

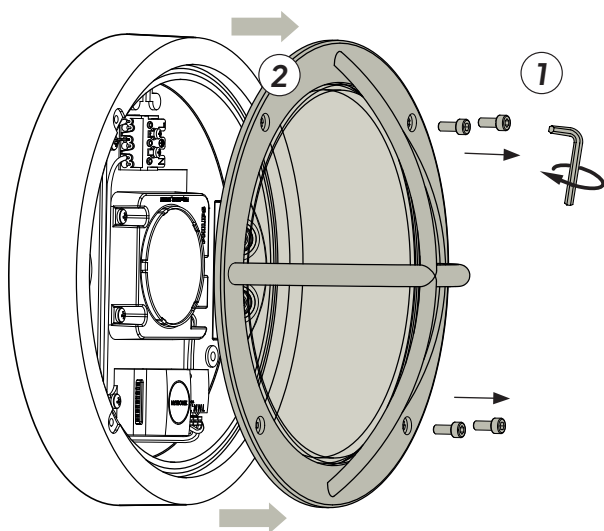
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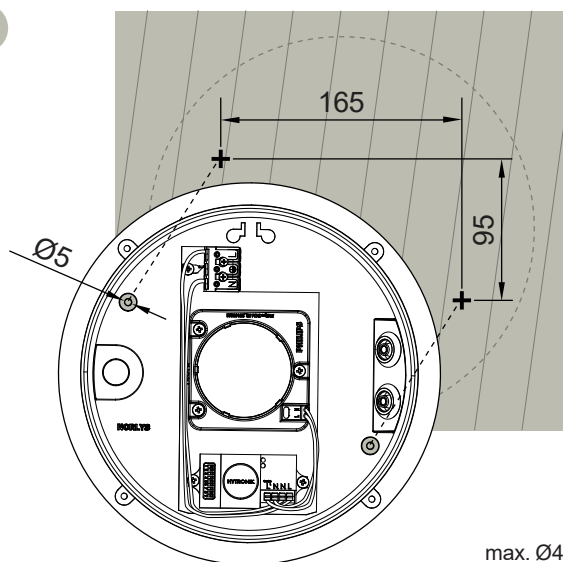
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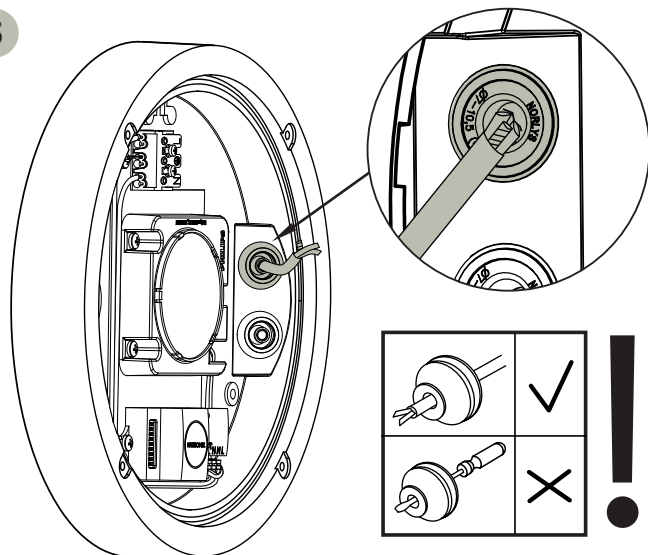
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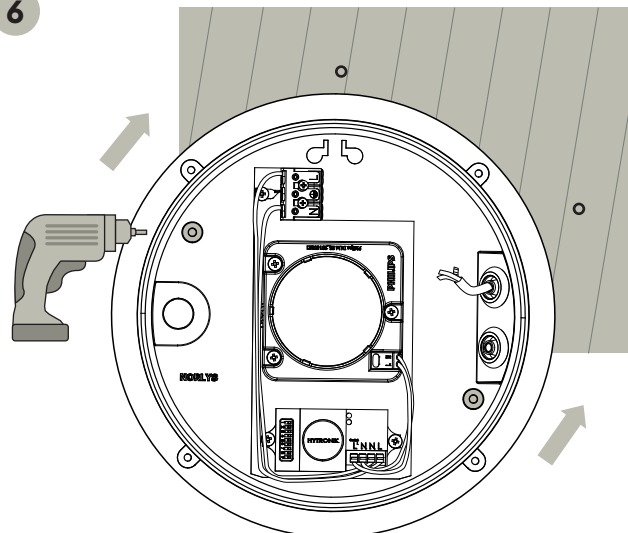
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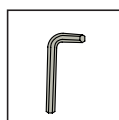
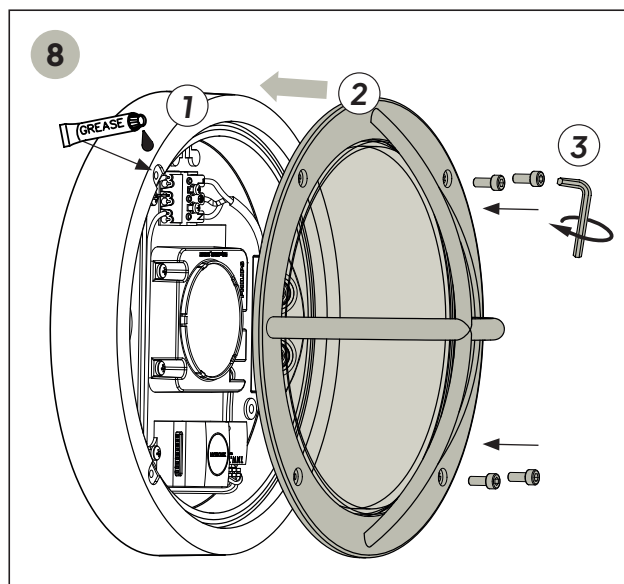
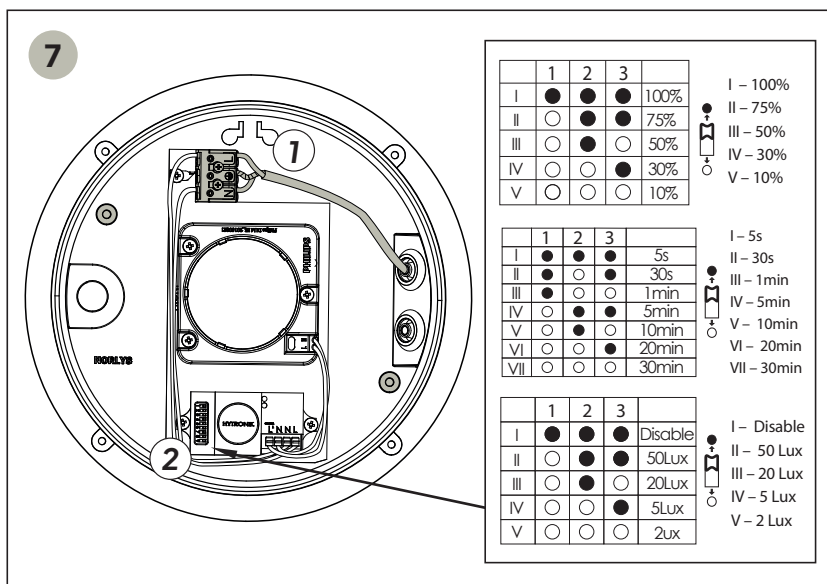


5

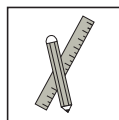


6

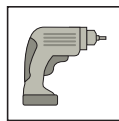




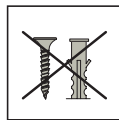
ENG Screw/unscrew the component.
NOR Skru/skru løs komponenten.
SWE Skruva fast/skruva loss komponenten.
DE Schrauben Sie das Bauteil an oder ab.
FR Visser/dévisser le composant.
PL Wkręcić/wykręcić element.



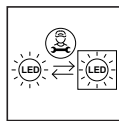
ENG Measure the appropriate distance.
NOR Mål den aktuelle avstanden.
SWE Mät det lämpliga avståndet.
DE Messen Sie den entsprechenden Abstand.
FR Mesurer la distance appropriée.
PL Odmierzyć odpowiednią odległość.



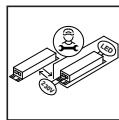
ENG Fix the element to the substrate.
NOR Fest elementet til underlaget.
SWE Fäst elementet på underlaget.
DE Befestigen Sie das Element auf dem Untergrund.
FR Fixer l'élément sur son support.
PL Przymocować element do podłoża.



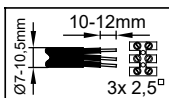
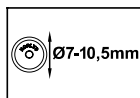
ENG The kit does not include ground mounting pins.
NOR Settet inkluderer ikke festepinner til bakken.
SWE Satsen innehåller inte markmonterings kit.
DE Kein Schraubensatz im Lieferumfang enthalten.
FR Livré sans visserie.
PL Zestaw nie zawiera kołków mocujących.



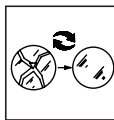
ENG Integrated AC LED module, microwave motion sensor. Replaceable (LED only) light source by a professional.
NOR Integrert AC LED-modul, bevegelsessensor med mikrobølgeovn. Utskiftbar (kun LED) lyskilde som kan skiftes ut av en fagperson.
SWE Integrerad AC LED-modul, mikrovågsrörelsesensor. Utbytbar (endast LED) ljuskälla av en fackman.
DE Integriertes AC-LED-Modul, Mikrowellen-Bewegungssensor. Austauschbare (nur LED) Lichtquelle durch einen Fachmann.
FR Module LED AC intégré, détecteur de mouvement à micro-ondes. Source lumineuse remplaçable (LED uniquement) par un professionnel.
PL Moduł LED zintegrowany AC, mikrofalowy czujnik ruchu. Wymienne (tylko LED) źródło światła przez profesjonalny serwis.



ENG Replaceable control gear by a professional.
NOR Utskiftbart kontrollutstyr av en profesjonell.
SWE Utbytbar kontrollutrustning skall installeras och underhållas av behörig elektriker.
DE Auswechselbare Vorschaltgeräte durch einen Fachmann.
FR Pilote remplaçable par un professionnel.
PL Wymienny osprzęt sterujący za pomocą profesjonalnego serwisu.



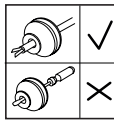
ENG Turn off the power before replacing the light source.
NOR Skru av strømmen før skifte av lyskilde.
SWE Stäng av strömmen innan montering för byte av ljuskälla.
DE Schalten Sie die Stromversorgung aus, bevor Sie die Lichtquelle austauschen.
FR Éteindre le courant avant de remplacer la source lumineuse.
PL Przed wymianą źródła światła należy wyłączyć zasilanie.



ENG Replace any cracked protective screen.
NOR Sprukket glass må skiftes.
SWE Sprucket glas måste bytas.
DE Ersetzen Sie einen beschädigten Schutzschirm.
FR Remplacer les écrans de protection fissurés.
PL Wymienić każdy pęknięty ekran ochronny.



ENG The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent, or a similar qualified person.
NOR Installasjon skal utføres av en autorisert installatør/fagmann.
SWE All installation skall utföras av auktoriserad elinstallatör.
DE Die Montage und der Austausch der in dieser Leuchte enthaltenen Lichtquelle dürfen nur durch den Hersteller oder seinen Kundendienst oder einer gleich qualifizierten Person ausgeführt werden. Bitte lokale Bestimmungen beachten!
FR Le montage et le remplacement de la source lumineuse du luminaire doit être fait uniquement par le fabricant, un agent de maintenance ou une personne ayant des qualifications similaires. Merci de respecter la réglementation nationale.
PL Źródło światła zastosowane w tej oprawie oświetleniowej powinno być wymieniane wyłącznie przez producenta lub jego przedstawiciela serwisowego, lub podobnie wykwalifikowaną osobę.



ENG Only pierce NORLYS gasket with the installation cable of 7-10,5mm diameter. Damage caused by tools will lead to IP degradation. Wrong installation leads to loss of warranty.
NOR Gjennombor NORLYS-pakning med installasjonskabel Ø7-10,5 mm diameter. Skader forårsaket av verktøy vil føre til IP-nedbrytning. Feil installasjon fører til tap av garanti.
SWE Använd endast 7-10,5mm Ø kabel för genomträngning av packningar. Skador orsakade av andra typer av verktyg kan sänka IP-klassning på armaturen. Felaktig installation kan orsaka garantiförlust.
DE Nur NORLYS Dichtung mit dem Installationskabel eines Durchmessers von 7-10,5mm durchstechen. Beschädigung durch Werkzeuge führt zu IP Verminderung und Garantieverlust.
FR Percez seulement le joint NORLYS avec le câble d'installation d'un diamètre de 7 à 10,5 mm. Les dommages causés par des outils entraîneront une dégradation de l'IP et la perte de garantie!
PL Uszczelkę NORLYS Ø7-10,5mm przebijać tylko przewodem instalacyjnym. Przebicie innymi narzędziami powoduje utratę szczelności IP oraz utratę gwarancji.

On/off Control HF Sensor

HC005S

Super-compact Version

HYTRONIK®

Applications

Occupancy detector with on/off control suitable for indoor use.

Suitable for building into the fixture:

- Office / Commercial Lighting
- Meeting rooms
- Classroom

Use for new luminaire designs and installations



Features



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



Loop-in and loop-out terminal for efficient installation



5-Year Warranty

Technical Data

Input Characteristics

Model No.	HC005S
Mains voltage	220~240VAC 50/60Hz
Stand-by power	<0.5W
Load ratings:	
Capacitive	400VA
Resistive	800W
Warming-up	10s

Safety and EMC

EMC standard (EMC)	EN55015, EN61000
Safety standard (LVD)	EN60669, AS/NZS 60669
Radio Equipment (RED)	EN300440, EN301489, EN301489, EN62479
Certification	Semko, CB, CE, EMC, RED, RCM



Sensor Data

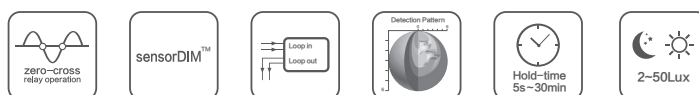
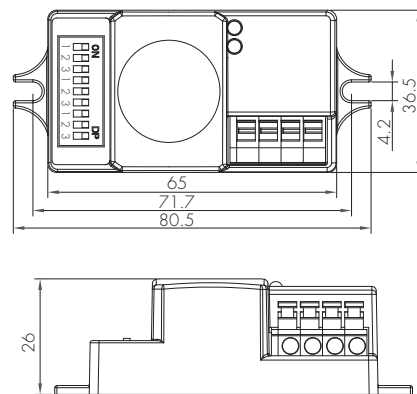
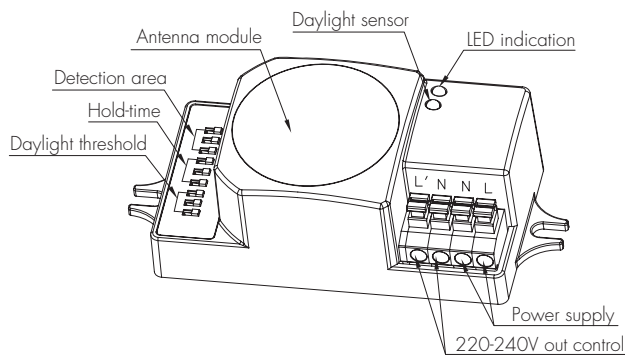
Model No.	HC005S
Sensor principle	High Frequency (microwave)
Operation frequency	5.8GHz +/- 75MHz
Transmission power	<0.2mW
Detection range*	Max. (Øx H) 12m x 6m
Detection angle	30° ~ 150°
Setting adjustments:	
Sensitivity	10% / 30% / 50% / 75% / 100%
Hold-time	5s ~ 30min (selectable)
Daylight threshold	2 ~ 50 lux, disabled

* For more details of detection range, please refer to "detection pattern" section.

Environment

Operation temperature*	Ta: -35°C~+70°C
Case temperature (Max.)	Tc: +80°C
IP rating	IP20

*For usage in -35°C ~ -20°C environment, please refer to www.hytronik.com/download->knowledge
->Microwave Sensors - Precautions for Product Installation and Operation point 4) for more information.

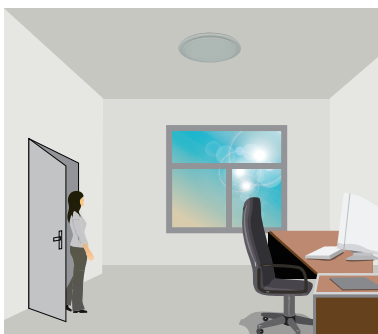


Note: We recommend the mounting distance between sensor to sensor should be more than 2m to prevent sensors from false-triggering.

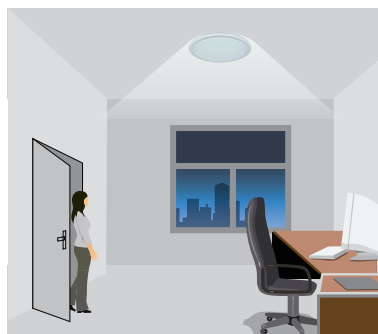
Functions and Features

1 On/off Control

This sensor is a motion switch, which turns on the light upon detection of motion, and turns off after a pre-selected hold-time when there is no movement. A daylight sensor is also built in to prevent the light from switching on when there is sufficient natural light.



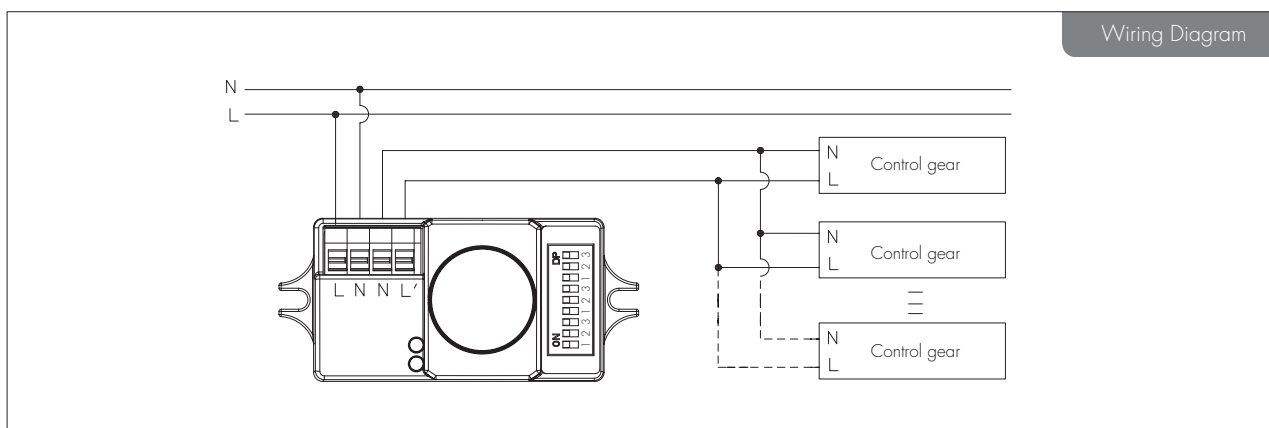
With sufficient natural light, the light does not switch on when presence is detected.



With insufficient natural light, the sensor switches on the light automatically when presence is detected.

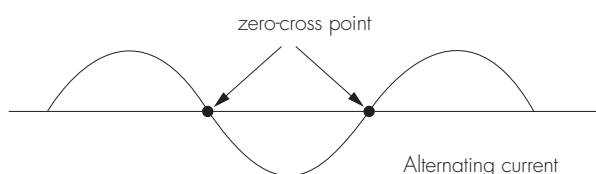


The sensor switches off the light automatically after the hold-time when there is no motion detected.



2 Zero-cross Relay Operation

Designed in the software, sensor switches on/off the load right at the zero-cross point, to ensure that the in-rush current is minimised, enabling the maximum lifetime of the relay.

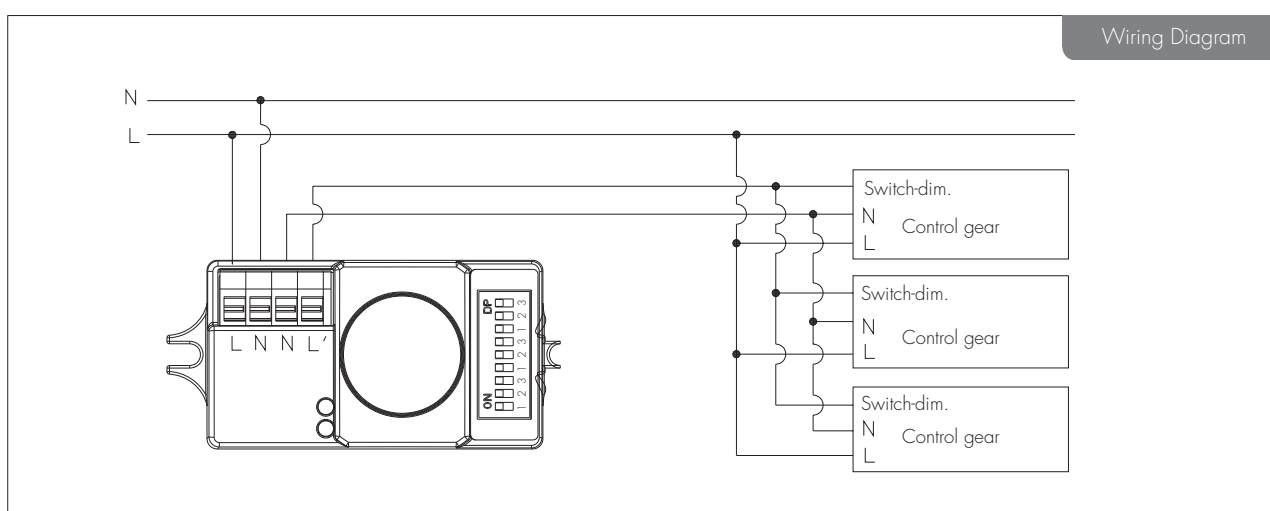


3 Loop-in and Loop-out Terminal

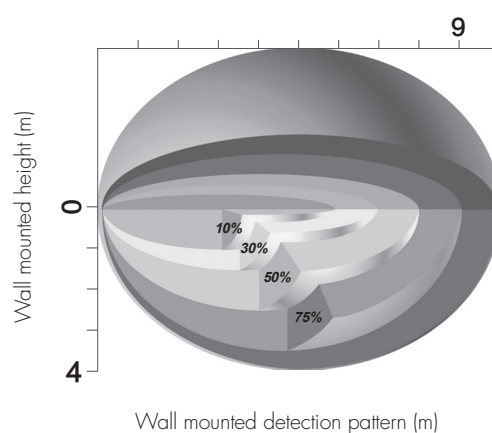
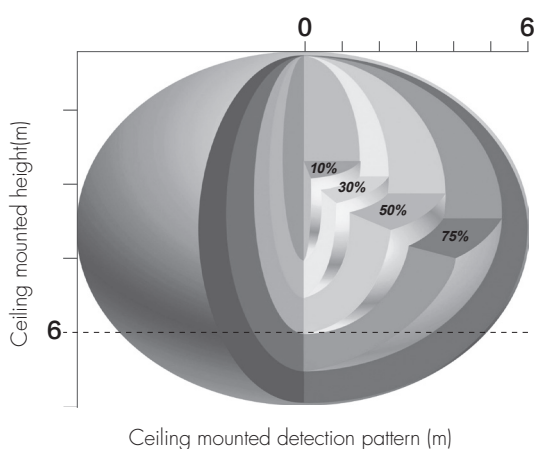
Double L N terminal makes it easy for wire loop-in and loop-out, and saves the cost of terminal block and assembly time.

4 SensorDIM™ Function

Working with Switch-dim. control gear (Excel ballast/driver, corridor function), this sensor can also achieve tri-level control.



Detection Pattern



DIP Switch Settings

1 Detection Range

Sensor sensitivity can be adjusted by selecting the combination on the DIP switches to fit precisely for each specific application.

	1	2	3	
I	●	●	●	100%
II	○	●	●	75%
III	○	●	○	50%
IV	○	○	●	30%
V	○	○	○	10%



I – 100%
II – 75%
III – 50%
IV – 30%
V – 10%

2 Hold Time

Select the DIP switch configuration for the light on-time after presence detection. This function is disabled when natural light is sufficient.

	1	2	3	
I	●	●	●	5s
II	●	○	●	30s
III	●	○	○	1min
IV	○	●	●	5min
V	○	●	○	10min
VI	○	○	●	20min
VII	○	○	○	30min



I – 5s
II – 30s
III – 1min
IV – 5min
V – 10min
VI – 20min
VII – 30min

3 Daylight Threshold

Set the level according to the fixture and environment. The light will not turn on if ambient lux level exceeds the daylight threshold preset.

Please note that the ambient lux level refers to internal light reaching the sensor.

Disabling the daylight sensor will put the sensor into occupancy detection only mode.

	1	2	3	
I	●	●	●	Disable
II	○	●	●	50Lux
III	○	●	○	20Lux
IV	○	○	●	5Lux
V	○	○	○	2ux



I – Disable
II – 50 Lux
III – 20 Lux
IV – 5 Lux
V – 2 Lux

Additional Information / Documents

- Regarding precautions for microwave sensor installation and operation, please kindly refer to [www.hytronik.com/download ->knowledge ->Microwave Sensors - Precautions for Product Installation and Operation](http://www.hytronik.com/download->knowledge->Microwave%20Sensors%20-%20Precautions%20for%20Product%20Installation%20and%20Operation)
- Regarding Hytronik standard guarantee policy, please refer to [www.hytronik.com/download ->knowledge ->Hytronik Standard Guarantee Policy](http://www.hytronik.com/download->knowledge->Hytronik%20Standard%20Guarantee%20Policy)