

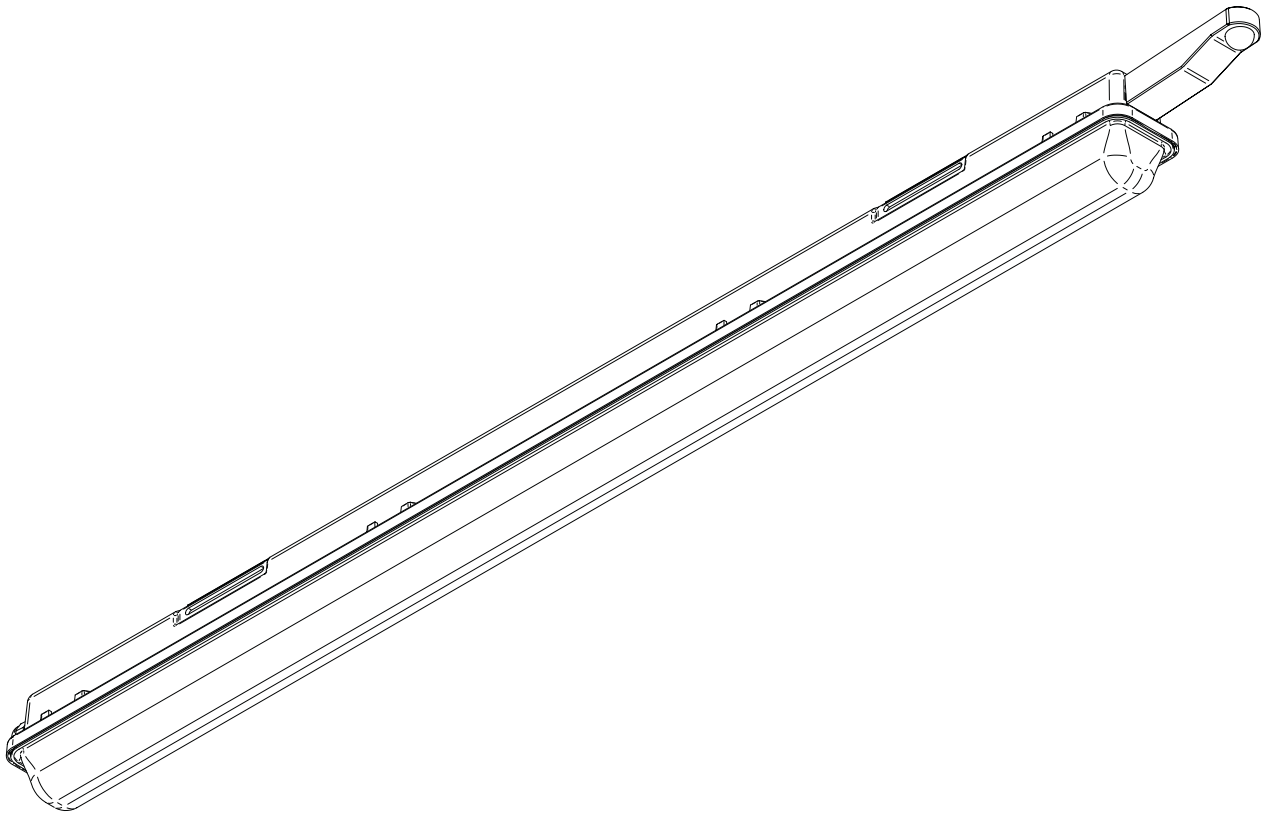
VIKING

LED-Waterproof Luminaire with Sensor

LED-Feuchtraumleuchte mit Sensor

NORDEON 

Installation Instructions · Montageanleitung · Notice de montage · indicaciones de montaje · Istruzioni per l'installazione · Installatie-instructies

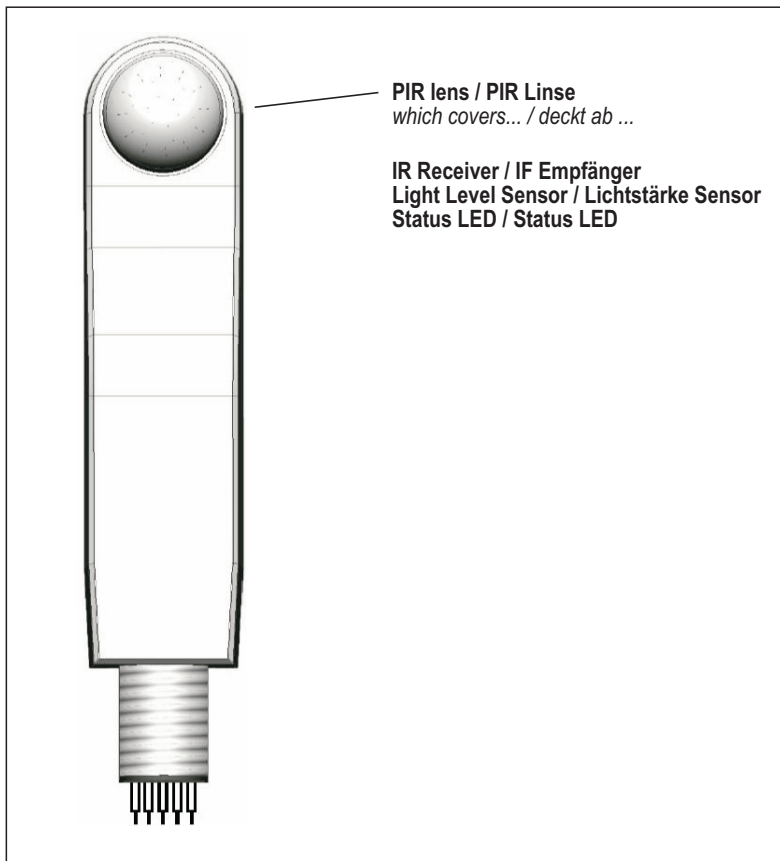


### General safety notes Allgemeine Sicherheitshinweise

- (GB) -Installation/maintenance only by skilled personnel.  
-During overhaul/maintenance only use original parts.  
-If any luminaire is subsequently modified, the person responsible for the modification shall be considered the manufacturer.  
-The manufacturer bears no liability for damage caused by inappropriate use or application.  
-Due to problems with chemical resistance, choose cleaning materials which are suitable for plastic.
- (D) -Montage/Wartung nur durch Fachkräfte.  
-Bei Instandsetzung/Instandhaltung nur Originalteile verwenden.  
-Werden nachträglich Änderungen an Leuchten vorgenommen, so gilt derjenige als Hersteller, der diese Änderung vornimmt.  
-Der Hersteller übernimmt keine Haftung für Schäden, die durch unsachgemäßen Einsatz entstehen.  
-Chemische Beständigkeit beachten. Nur kunststoffverträgliche Reinigungsmittel verwenden.

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## Front view / Frontansicht



### PIR Sensor / PIR Sensor

Detects movement within the unit's detection range, allowing load control in response to changes in occupancy. /  
Gerät erkennt Bewegung im Erfassungsbereich, so dass eine Leuchten Steuerung je nach Belegung möglich ist.

### IR Receiver / IF Empfänger



Receives control and programming commands from an IR (infrared) handset. /  
Empfängt Steuer- und Programmierbefehle von einer IR-(Infrarot) Fernbedienung.

### Light Level Sensor (only DALI version) / Lichtstärke Sensor (nur DALI Version)

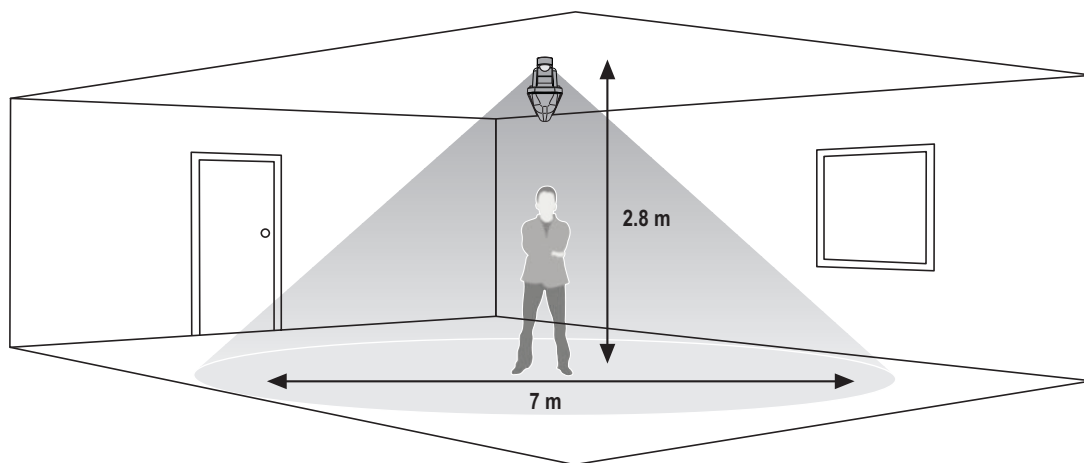
Measures the overall light level in the detection area. /  
Misst die Gesamtlichtstärke im Erfassungsbereich.

### Status LED / Status LED

The LED flashes Red to indicate the following: /  
Die LED blinkt rot, um folgendes anzuzeigen:

<b>Walk Test LED active / Erfassung aktiv</b>	 <i>when movement is detected / bei erfasster Bewegung</i>
<b>Valid setting received / Gültige Einstellung erhalten</b>	

# Range / Reichweite

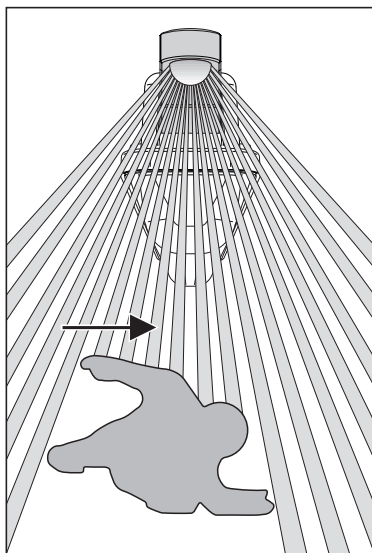


Area of high sensitivity  Area of lower sensitivity 

Bereich hohen Ansprechvermögens  Bereich geringeren Ansprechvermögens 

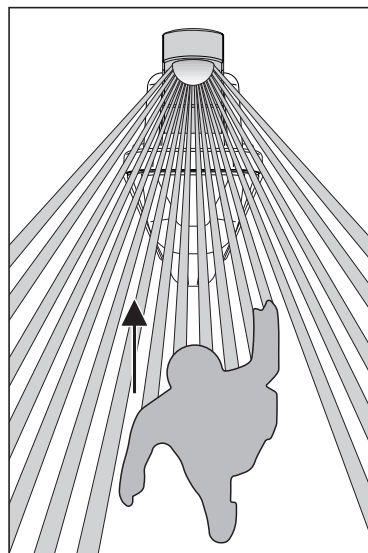
Note: illustration shows an average of the walk across and walk towards figures below. /  
Hinweis: Abbildung unten zeigt durchschnittliche Werte beim Durchschreiten des Erfassungsbereichs

## Walk across / quer zum Sensor laufend



Height	Range Diameter
7 m	16 m
2.8 m	9 m

## Walk towards / längs zum Sensor laufend



Height	Range Diameter
7 m	10 m
2.8 m	5 m

## Sensor functionality / Sensor Funktionalität

### Detection mode / Erkennungsmodus

- **Presence** When movement is detected the load will automatically turn on. When the area is no longer occupied the load will automatically switch off after an adjustable time period. /
- **Bewegung** Die Leuchte wird automatisch eingeschaltet, sobald Bewegung erkannt wird. Wenn der Erfassungsbereich nicht mehr besetzt ist, wird die Leuchte automatisch, nach einer einstellbaren Zeit, ausgeschaltet.

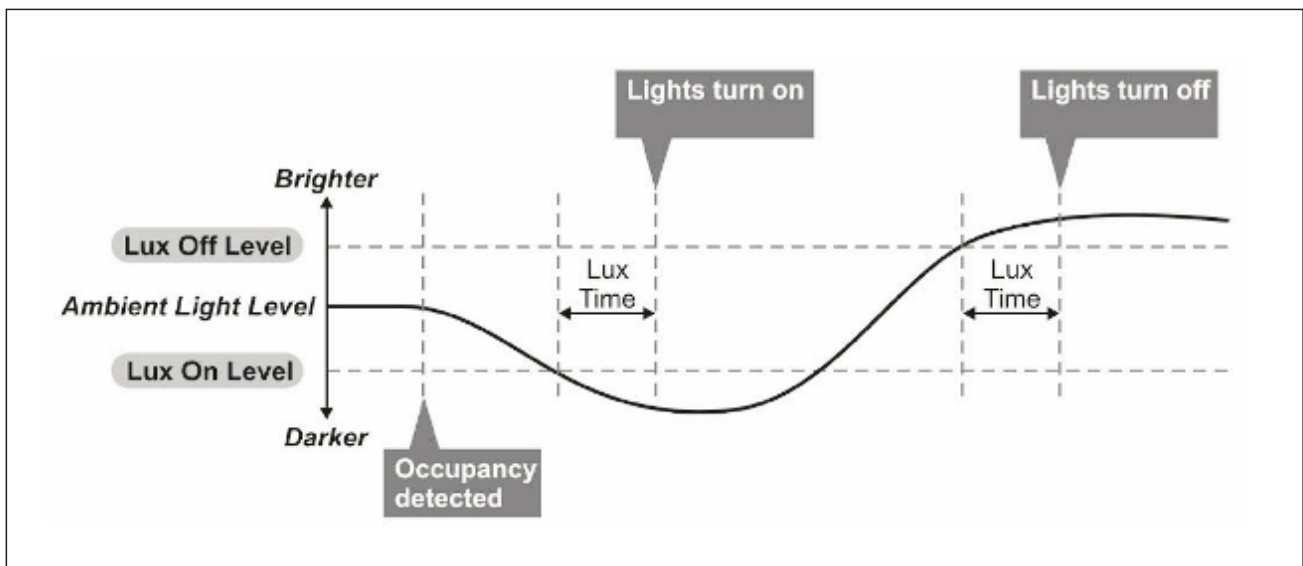
Sensitivity to movement of the PIR sensor can be adjusted using the Sensitivity parameter. / Die Empfindlichkeit des PIR-Sensor gegenüber der Bewegung kann über den Parameter Sensitivity eingestellt werden.

*HINT: To assist in setting the Sensitivity, turn on the Walk Test LED which will flash red when movement is detected. / Tipp: Um bei der Einstellung der Empfindlichkeit einen Anhalt zu haben, schalten Sie die Gehstest-LED ein. Diese blinkt rot, sobald eine Bewegung erkannt wird.*

### Switch Level / Schaltschwellen On/Off

Occupancy detection can be made dependant on the ambient light level using the Lux On Level and Lux Off Level parameters. /

Schaltpunkte können in Abhängigkeit von der Umgebungshelligkeit über die Einstellungsparameter Lux On Level und Lux Off Level definiert werden.



### Maintained Illuminance (daylight harvesting) - only DALI variants /

### Verwaltung Beleuchtungsstärke (unter Berücksichtigung der Tageslichtstärke) - nur DALI-Varianten

The detector measures the overall light level in the detection area and calculates the correct output for the luminaires, to achieve a preset lux level (maintained illuminance or daylight harvesting). / Der Detektor misst die Gesamtlichtstärke im Erfassungsbereich und errechnet den korrekten Output der Leuchte, um eine definierte Beleuchtungsstärke (Tageslichnutzung) zu erzielen.

## Sensor functionality / Sensor Funktionalität

Default Values / Standardwerte					
Parameter Name	Default Value			DPC	PRC
Time Out / (Time adjustment) Leuchtdauer	20 min	Once the detector is turned on, this value sets how long the lights will stay on once movement has ceased	Dieser Wert gibt an, wie lange die Leuchte nach der letzten erkannten Bewegung eingeschaltet bleibt. Der Wert ist in Minuten angegeben.	✓	✓
Sensitivity / Bewegungs- empfindlichkeit	9	Sensitivity level for detecting movement. 1 = low sensitivity 9 = high sensitivity	Empfindlichkeit zur Erkennung von Bewegungen. 1 = geringe Empfindlichkeit 9 = hohe Empfindlichkeit.	✓	✓
Lux on level (Switch level on) / minimale Umgebungslichtstärke	9	Lux level setting to prevent the luminaires being switched on if the ambient light level is sufficient (adjustable between 1 and 9). The luminaires will always be switched on at level 9.	Lux Niveau Einstellung um zu verhindern, dass die Leuchten eingeschaltet werden, wenn das Umgebungslicht ausreichend ist, (einstellbar von 1 bis 9). Die Leuchten werden auf Stufe 9 immer eingeschaltet.	✗	✓
Lux off level (Switch level off) / maximale Umgebungslichtstärke	9	Lux level setting to switch the luminaires off during occupancy if the ambient light level goes above the setting (adjustable between 1 and 9). Level 9 will always keep the lights on. This setting can be used for "window row switching". Note: the Lux Off Level value must always be greater than the Lux On Level value.	Lux Niveau Einstellung der Leuchte zum automatischen ausschalten. Gibt an ab welchem Umgebungslicht sich die Leuchte automatisch ausschaltet (einstellbar von 1-9). Bei Stufe 9 bleibt die Leuchte immer eingeschaltet. Diese Einstellung kann für Schaltungen an Fenstern verwendet werden. Hinweis: Der Lux Off Level-Wert muss immer größer als der Lux On Level Wert sein.	✗	✓
Light Level / Regelung der Beleuchtungsstärke	6 (600)	Sets a target light level to be maintained by the lighting system. 9 (999) = disabled.	Definiert die Beleuchtungsstärke die von der Leuchte eingehalten werden muss. 9 (999) = deaktiviert.	✓	✗

## Power-up test procedure / Funktionsprüfung

- When power is applied to the unit, the load will turn on immediately. /  
Sobald Spannung am Gerät liegt, wird sofort die Leuchte zugeschaltet.
- Set the timeout to 10 seconds, vacate the room or remain very still and wait for the load to switch off. /  
Stellen Sie die Ausschaltverzögerung auf 10s und verlassen Sie den Raum oder verhalten sich ganz still, bis die Leuchte ausgeschaltet wird.
- Check that the load switches on when movement is detected. /  
Prüfen Sie ob die Leuchte eingeschaltet wird, sobald der Sensor eine Bewegung erfasst.
- The unit is now ready for programming. /  
Jetzt ist der Sensor bereit zur Programmierung.

## Fault finding / Fehlersuche

### What if the load does not turn ON? / Was tun, wenn die Leuchte nicht eingeschaltet wird?

- Check that the live supply to the circuit is good. /  
Prüfen Sie, ob die Spannungsversorgung gewährleistet ist.
- Check that the load is functioning by bypassing the sensor (e.g. link **L** and **L/ Out**). /  
Überprüfen Sie, ob die Leuchte unter Umgehung des Sensors funktioniert (z.B. brücken von L und L / Out).

*HINT: The Walk Test LED function can be used to check that the unit is detecting movement in the required area. /  
HINWEIS: Die LED-Funktion kann über das Erkennen von Bewegung im Erfassungsbereich geprüft werden.*

### What if the load does not turn OFF? / Was tun, wenn die Leuchte nicht ausgeschaltet wird?

- Ensure that the area is left unoccupied for longer than the Time Out Period. /  
Stellen Sie sicher, dass im Erfassungsbereich keine Bewegung mehr stattfindet, bis über den Zeitraum der Ausschaltverzögerung hinaus.
- Ensure that the sensor is not adjacent to circulating air, heaters or lamps. /  
Stellen Sie sicher, dass der Sensor nicht von Luftströmungen, angrenzenden Heizungen oder Leuchten beeinflusst wird.
- If the unit “false triggers” reduce the sensitivity using the sensitivity settings /  
Wenn es am Gerät zu “Fehlauslösungen” kommt, reduzieren Sie die Empfindlichkeit in der Parametereinstellung Sensitivity.

## Basic programming – PRM and DD variants / Basic-Programmierung



The functionality of the EBMP-IR-MB-PRM, DD & AD are controlled by a number of parameters which can be changed or programmed by any of the following devices: /  
Die Funktionalität des EBMP-IR-MB-PRM, DD & AD wird gesteuert durch eine Anzahl von Parametern, die von einem der folgenden Geräte geändert oder programmiert werden können:

- **UHS5** Infrared Handset. See below for programmable functions. /  
**UHS5** Infrarot-Handgerät. Programmierbare Funktionen Siehe unten.
- **UNLCDHS** Infrared Handset (with LCD). See user guide for full programming details. /  
**UNLCDHS** Infrarot-Handgerät (mit LCD). Siehe Benutzerhandbuch für weitere Einzelheiten der Programmierung.

For most basic programming operations the UHS5 handset can be used and the following procedures are based on using this device. /

Für die meisten, grundlegenden Programmieroperationen kann das UHS5 Mobilteil verwendet werden. Die folgenden Verfahren basieren auf der Verwendung dieses Geräts.

Point the handset at the Sensor and send the required programming commands to the unit as shown below. /  
Richten Sie, wie gezeigt, das Handset auf den Sensor und senden die erforderlichen Programmierbefehle an den Sensor.

Valid commands will be indicated by a red LED flash. See page 2 for details of other LED responses. /  
Gültige Befehle werden durch das Aufblitzen der roten LED angezeigt. Siehe Seite 2 für Details anderer LED-Antworten.

*Note: other functions on the UHS5 which are not shown below are not applicable to this product. /*  
Hinweis: andere Funktionen des UHS5, die nicht unten gezeigt werden, sind nicht auf dieses Produkt anwendbar.

**Number of Shift key presses**

Parameter Name	Default Value	Number of Shift key presses				UHS5 Handset Graphics	Description
		0 	1 	2 	3 		
Button Activation							
On / Raise		On	Raise				Turn lights on or to raise lights.
Off / Lower		Off	Lower				Turn lights off or to lower lights.
Walk test	Off	On	Off				When set to On this causes a red LED to flash on the sensor when it detects movement. Use this feature to check for adequate sensitivity levels.
Time Out <i>(Time adjustment)</i>	20 mins	1, 10 & 20 minutes	5, 15 & 30 minutes	10 seconds			Once the detector is turned on, this value sets how long the lights will stay on once movement has ceased.
Lux on level <i>(Switch level on)</i>	9	2, 5 & 7	4, 6 & 9				Lux level setting to prevent the luminaires being switched on if the ambient light level is sufficient (adjustable between 1 and 9). The luminaires will always be switched on at level 9.
Light Level <i>(DD &amp; AD only)</i>	6 (600)			2 (200) 5 (500) 7 (700)	4 (400) 6 (600) 9 (999)		Sets a target light level to be maintained by the lighting system. 9 (999) = disabled.
Lux off level <i>(Switch level off)</i>	9	2, 5 & 7	4, 6 & 9				Lux level setting to switch the luminaires off during occupancy if the ambient light level goes above the setting (adjustable between 1 and 9). Level 9 will always keep the lights on. This setting can be  <i>Note: the Lux Off Level value must always be greater than the Lux On Level value.</i>
Load Type <i>(DD only)</i>	DALI			2-DALI 7-DSI	2-DALI on		Sets the ballast control protocol to be used by the output channel.
Sensitivity	9	1, 5 & 9	3, 6 & 8				Sensitivity level for detecting movement. 1 = low sensitivity 9 = high sensitivity
Defaults				D			Returns the unit to the default settings.
Burn-in <i>(DD &amp; AD only)</i>	0	0	50	100			Determines how long the output will be at 100% so that lamps 'burn-in'. The 'burn-in' time is not affected by power supply interruptions.
Shift							Use this button to select the settings in red and



## Advanced programming / Erweiterte Programmierung

Parameter Name	Default Value	Range / Options	Description	UHS5	UNLCDHS
<b>Detector Parameters</b>					
Walk Test LED	Off	On or Off	When set to On this causes a red LED to flash on the sensor when it detects movement. Use this feature to check for adequate sensitivity levels.	✓	✓
Time Out (Time adjustment)	20 minutes	0-99 minutes	Once the detector is turned on, this value sets how long the lights will stay on once movement has ceased. Select 0 for 10 second delay - use for commissioning only.	✓	✓
Manual Time Out	10 minutes	0-99 minutes	When a manual operation occurs, either via the switch input or the infrared, it invokes the timeout period. Example 1: a detector in presence mode has a detector timeout of 15 minutes and a manual timeout of 3 minutes. When the user leaves the room they press the off button. The sensor will revert to automatic after 3 minutes, and then walking back in the room will turn the lights on. Example 2: using the settings above, the user turns the lights off (say for a presentation) but stays in the room. Every time a movement is detected, the manual timeout period is re-triggered, but when it doesn't pick up for the short timeout period, the sensor will timeout and revert to automatic. This means the lights may turn on inadvertently during the presentation, if the occupants are still for the manual timeout period, so adjust the timing carefully.	✗	✓
Sensitivity On	9	1 (min) to 9 (max)	Sensitivity level for detecting movement when the detector is already on. <b>*UHS5 sets Sensitivity On and Off to the same value.</b>	✓*	✓
Sensitivity Off	9	1 (min) to 9 (max)	Sensitivity level for detecting movement when the detector is off. <b>*UHS5 sets Sensitivity On and Off to the same value.</b>	✓*	✓
Lux time	0	0 (disabled) 1-99 minutes	If the detector measures the lux level and decides that the output needs switching on or off as a consequence, the lux time must elapse first. If at any time during the timed delay the lux change reverses then the process is cancelled.	✗	✓
Power Up State	On	On or Off	Select No for a 30 second delay on start up. If Yes is selected, there will be no delay on start up and the detector will always power up detecting.	✗	✓
Disable Detector	N	Y or N	Disables detection, leaving the relay output permanently off with the dimming output operational. This mode is used when the unit is for maintained illuminance only.	✗	✓
On Delay	0 minutes	0-99 minutes	The On Delay to allows the first channel to switch on after the second channel. A typical application for this would be where a detector is controlling lighting and air conditioning in an area. When the occupant is detected, the lighting will be turned on immediately, whereas the air conditioning may be turned on after 15 minutes. If the area is vacated and the detector times out before the delay, then the air conditioning would never go on. The delay can be set only for channel 1 using the on delay parameter.	✗	✓
Inhibit	4 seconds	1 to 999 seconds	When the detector turns off, a delay is instigated to prevent retriggering. In certain circumstances this delay may not be enough. This parameter allows the delay to be changed.	✗	✓
Factory default	-	-	Restores factory default settings	✓	✓

<b>User Modes</b>					
Raise (DD & AD only)	-	-	Increase light level. Reverts when occupancy cycle complete.	✓	✓
Lower (DD & AD only)	-	-	Decrease light level. Reverts when occupancy cycle complete.	✓	✓
Scene up	-	-	Steps up between 6 pre-defined scenes.	✓	✓
Scene down	-	-	Steps down between 6 pre-defined scenes.	✗	✓
Scene #	-	-	Select the individual scene, between 0 and 6. (1 = min. output; 2 = 10%; 3 = 25%; 4 = 50%; 5 = 75%; 6 = 100%)	✗	✓
Override On	-	-	If the lights are off, sending the IR command will turn them on immediately and revert to automatic operation using the manual timeout period.	✓	✓
Override Off	-	-	If the lights are on, sending the IR command will turn them off immediately. After the manual timeout period (described above), the sensor will revert to automatic.	✓	✓
Cancel	-	-	Cancels the on or off override, returning the detector to normal operation.	✗	✓

Parameter Name	Default Value	Range / Options	Description	UHS5	UNLCDHS
<b>Channel 1 - Switching Channel (PRM &amp; AD only)</b>					
Lux on level (Switch level on)	9	1 to 9 For a higher resolution a scale of 101-199 is available	Sets a minimum light level below which the PIR sensor is enabled, allowing lights to be turned on by movement. <i>Note: the Lux Level Off value must always be greater than the Lux Level On value.</i>	✓	✓
Lux off level (Switch level off)	9	1 to 9 For a higher resolution a scale of 101-199 is available	Sets a maximum light level above which the PIR sensor is disabled, preventing lights from being turned on by movement.	✓	✓

<b>Channel 2 - Dimming Channel (DD &amp; AD only)</b>					
Lux on level (Switch level on)	9	1 to 9 For a higher resolution a scale of 101-199 is available	Sets a minimum light level below which the PIR sensor is enabled, allowing lights to be turned on by movement. <i>Note: the Lux Level Off value must always be greater than the Lux Level On value.</i>	✓	✓
Lux off level (Switch level off)	9	1 to 9 For a higher resolution a scale of 101-199 is available	Sets a maximum light level above which the PIR sensor is disabled, preventing lights from being turned on by movement.	✓	✓
Light Level (maintained illuminance)	600	1 to 998 (999 disabled)	Sets a target light level to be maintained by the lighting system.	✓	✓
Load Type (DD only)	DALI	DSI DALI  DALI On	Sets the ballast control protocol to DSI. Sets the ballast control protocol to DALI.  DALI On provides a permanent voltage to DALI ballasts when DALI has not been implemented correctly in the ballast. Maximum number of ballasts is 4 unless the relay is disabled then it is 10.	✓ ✓  ✗	✓ ✓  ✓
Max Value	100%	0 to 100%	Maximum dimming output level.	✗	✓
Min Value	0%	0 to 100%	Minimum dimming output level.	✗	✓
Memorise	N	Yes or No	If this is set to Yes, the last manual lux level set will be memorised and used as the new switch on level.	✗	✓
On value	99	0 to 99	Dimming output level when switched on (0-99).	✗	✓
Off value	0	0 to 99	Dimming output level when switched off (0-99). If a non-zero off value is set, then the output will toggle between this value and completely off depending on the switch level on and off values. For example, if it is light outside, the fittings will be off if there is no occupancy. If it is dark outside, they will adopt the preset off value. This feature is only enabled if 'Min value' is set to 99.	✗	✓
Burn- in	0	0 (disabled) or 1 to 999 hours	Determines how long the output will be at 100% so that lamps 'burn-in'. The 'burn-in' time is not affected by power supply interruptions.	✓	✓
Fade value	10	0 to 99	After occupancy ceases, this dimming output level is loaded for the fade time (adjustable between 0 and 99).	✗	✓
Fade mins	0	0 to 99	This is the time period (adjustable between 0 and 99 minutes) that the luminaire will be held at the fade value before turning off. A value of 0 disables the fade function.	✗	✓
Speed On	40	Measured in 0.1 sec intervals.	Determines the dimming response speed after the setup time has finished.	✗	✓
Speed Set	5	Measured in 0.1 sec intervals.	Determines the dimming response speed during the set up time. Measured in 0.1 sec intervals. If set to 0 will disable dimming for "Set seconds" below, used if fittings are required to warm up before dimming.	✗	✓
Set Seconds	120	1 to 999 seconds	Determines how long the dimming response set-up period lasts on power-up or on setting change. This enables the desired lux level to be achieved rapidly when the lights come on, or during setup.	✗	✓

## EBMPIR User Manual / Anwender Handbuch

Following this Link you will find the user Manual for the CP electronics EBMPIR-MB Sensor. /  
Diesem Link folgend, finden Sie die Gebrauchsanweisung für den CP electronics EBMPIR-MB Sensor.

<http://www.cpelectronics.co.uk/energy-saving-product/presence-detectors-pir-sensors-and-microwave-sensors/ceiling-mounted-pir-presence-detectors/ebmpir-mb>