

Toughbay™ Pro MW dim sensor

Microwave dimming Sensor: LEV71951



To fit sensor to the Toughbay™ Pro - remove the blank cap from the centre of the lens, then fit the sensor making sure not to cross thread by rotating clockwise until hand tight- do not over tighten. On/off function - When the sensor is powered on for the first time, the light will be turned on at 100% brightness, and it will be turned off after 10±5s. For Dim function- When the sensor is powered on for the first time, the light will be turned on at 100% brightness, and it will be turned off after 10±5s, it will then dim the light to a low level(set by standby dim level)During the initialization, the external movement induction signal will not be detected.**NOTE: AFTER A POWER FAILURE THE SENSOR WILL MAINTAIN ITS SETTINGS.**

For use with Toughbay™ Pro. The default settings below cannot be changed on the sensor manually.

Default settings are: Detection area 100%, Hold time 5 secs, Stand-by Period: 0 secs, Stand-by dim level: 10%, Daylight sensor: Disable.

To commission or adjust settings for individual requirements or individual applications;

Please order LEV71808 Hand Held Remote(one remote can be used for multiple sensors)

To avoid interference between luminaires with sensors installed, we recommend the minimum distance between each luminaire is 3m. MW sensors should be kept away from metal reflective surfaces, or a narrow enclosed environment, the microwave will be reflected repeatedly and cause false triggering. Ensure the MW sensor is kept away from electromagnetic wave products, such as WIFI router /WIFI camera, away from more than 2 meters to prevent electromagnetic wave interference.

SPECIFICATION:

Input Voltage	12 ± 2 VDC		
Working current	25 ± 5mA		
Detection area	25%/50%/75%/100%		
Hold Time	5s/30s/1 min/3min/5min/10min/20min/30min		
Daylight Priority settings - on	51ux/15Lux/30Lux/50Lux	100lux	150lux
Daylight Priority settings - off	150lux	200lux	300lux
Standby Period	0s/10s/1 min/3min/5min/1 0min/30min/+ ∞(for on/off function set to 0s)(for 2 step dimming set to + ∞) (For 3 step dimming set to 10s/1 min/3min/5min/1 0min/30min + DH)		
Stand-by dimming level	10% / 20% / 30% / 50%		
Sensor principle	Microwave motion detector(5.8GHz±75MHz)		
Mounting height(sensor)	10m (12m) Max.(when mounted at 12m, do not set detection area 25% or 50%, it will not detect correctly)		
Motion detection	(0.3-1 m/s) @10m		
Operating temperature	0°C TO 40°C		
IP rating	IP65		
Factory Setting	Detection area:100%,Hold time:3 min, Stand-by Period: 5 min, Stand-by dim level:50%, Daylight Sensor: Disable		

FAQ'S - QUESTION	CAUSE	REMEDY
THE LUMINAIRE WILL NOT COME ON	INCORRECT DAYLIGHT SENSOR SETTING SELECTED	ADJUST SETTING
	LOAD HAS FAILED	REPLACE LOAD
	POWER IS SWITCHED OFF	SWITCH ON POWER
THE LOAD IS PERMANENTLY ON	CONTINUOUS MOVEMENT IN DETECTION AREA	CHECK DETECTION AREA SETTING
	TOO CLOSE TO WIFI HUB/ROUTER	MOVE WIFI HUB/ROUTER TO REPOSITION FITTING
	THE LUMINAIRE IS INSTALLED IN AN AREA TOO CLOSE TO REFLECTIVE SURFACES i.e. GLASS, METAL OR CONCRETE WALLS	1. ENSURE THAT LUMINAIRE IS INSTALLED WITH A MINIMUM 100CM SPACE BETWEEN ANY REFLECTIVE SURFACES 2.REDUCE SENSITIVITY(DETECTION AREA)
WILL NOT ILLUMINATE EVEN THOUGH THERE IS MOVEMENT	SPEED OF MOVING OBJECT IS NOT IN THE RANGE OF 0.5-1M/S OR THE DETECTION RADIUS IS TOO SMALL	CHECK DETECTION SETTINGS
THE REMOTE CONTROL IS NOT WORKING	BATTERY IS DEAD	REPLACE BATTERY
	THE REMOTE CONTROL IS NOT ALIGNED WITH THE SENSOR	CHANGE THE POSITION/ANGLE OF THE REMOTE/CHECK TOGGLE BUTTON SETTING FOR CORRECT HEIGHT

UK CA CE RoHS Compliant IP20(REMOTE)/IP65(SENSOR WHEN INSTALLED) **jcc.co.uk**

ISO9001 - 2015 - Registered Firm Certificate No. GB 1552

JCC Lighting Products Ltd. Lux Park, Chichester Business Park, City Fields Way, Tangmere, Chichester, West Sussex, PO20 2FT

Technical Support: +44(0)1243 838986 Customer Services: +44(0)1243 838999

LEV71808

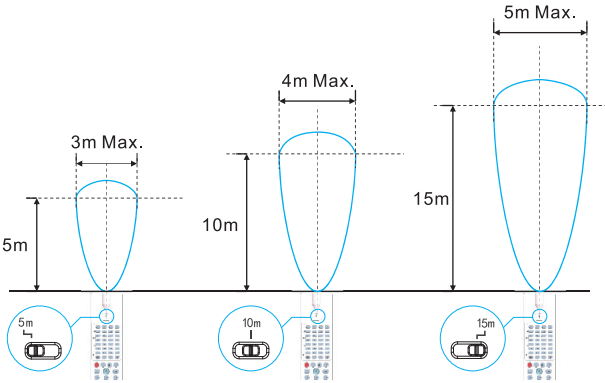
Sensor Remote Control for LEV71951 user manual
3VDC/2 x 1.5V AAA



Remote Control Setting	Button	Remarks																												
		Press the "ON/OFF" button, the light goes to constant on/off mode, sensor is disabled. Press "Reset" "Sensor motion" button to quit from this mode and the sensor starts to work.(Power off memory: After re-powering, it will be in steady on mode and still in steady on mode, and the on-off mode will be turned into on-off mode after 2 seconds)																												
		Press "Reset" button, all parameters are same as setting of DIP switch or factory settings.																												
		Press "Sensor motion" button, the light quits from the constant on/ off mode,and the sensor starts to work (The latest setting stays in validity)																												
		Press "DIM Test" button,the 1-10 V dimming works to test whether the 1-10Vdc dimming ports are connected properly.After 2s, it returns to the latest setting automatically.																												
		Long press>3s,daylight priority mode will be switched to daylight threshold mode ,with preset daylight value																												
		Set occupancy light level in range of 50% -100%,dim level is 5% each time press Dim+/Dim-																												
		Long press>3s,sensor will be switched to daylight priority mode,if preset daylight value is "Disable",sensor will stay in daylight threshold mode																												
		<table border="1"><thead><tr><th>Scene Options</th><th>Detection Area</th><th>Hold Time</th><th>Stand-by period</th><th>Stand-by dim level</th><th>Daylight Sensor</th><th>Induction model</th></tr></thead><tbody><tr><td>QS1</td><td>100%</td><td>5min</td><td>10min</td><td>10%</td><td>30Lux</td><td>HS</td></tr><tr><td>QS2</td><td>100%</td><td>10min</td><td>30min</td><td>10%</td><td>Disable</td><td>HS</td></tr><tr><td>QS3</td><td>100%</td><td>20min</td><td>30min</td><td>10%</td><td>Disable</td><td>HS</td></tr></tbody></table> Note: Detection area / Hold time /Stand-by period /Stand-by dim level / Daylight sensor can be adjusted by pressing the corresponding button.The latest setting will stay valid.	Scene Options	Detection Area	Hold Time	Stand-by period	Stand-by dim level	Daylight Sensor	Induction model	QS1	100%	5min	10min	10%	30Lux	HS	QS2	100%	10min	30min	10%	Disable	HS	QS3	100%	20min	30min	10%	Disable	HS
	Scene Options	Detection Area	Hold Time	Stand-by period	Stand-by dim level	Daylight Sensor	Induction model																							
	QS1	100%	5min	10min	10%	30Lux	HS																							
	QS2	100%	10min	30min	10%	Disable	HS																							
	QS3	100%	20min	30min	10%	Disable	HS																							
		Press the "TEST 2S" button can enter the test mode any time. At the mode, the sensor parameters as below: Detection Area is 100%, Hold Time is 5s, Stand-by Dim Level is 10%, Stand-by Period is 0s, daylight sensor disable. This function only for testing. Quit the mode by pressing "RESET" or any other function buttons.																												
		Press "HS" button to set the detection area to be high sensitive. Press "LS" button to set the detection area to be low sensitive. The adjustment bases on the "Detection Area" parameter you set.																												
		Daylight Sensor Set up daylight threshold: 5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/ Disable																												
		Stand-by period Set up stand-by time: 0s/10s/1min/3min/5min/10min/30min/+∞																												
		Hold time Set up hold time: 5s/30s/1min/3min/5min/10min/20min/30min																												
	Stand-by dim level Set up stand-by dim level: 10%/20%/30%/50%																													
	Detection Area Set up detection area: 25%/50%/75%/100%																													
	Remote Distance Toggle button can set the remote distance of remote control and sensor.																													

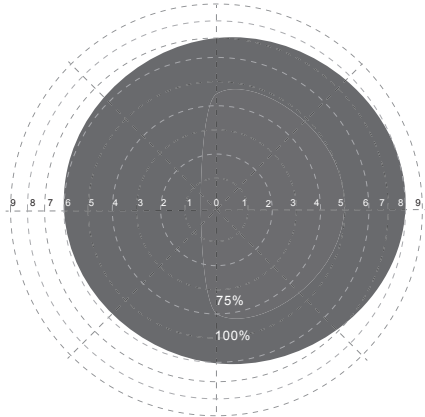
Transmitting angle of remote control against different setting, please choose right button based on mounting height of sensor.

Note: False triggering can occur when a fitting/sensor is installed too close to a large solid object i.e. wall. If this happens reduce the detection area sensitivity/ percentage to resolve this. It is recommended by the manufacturer that this product is installed a minimum of 2 Metre away from any solid object i.e. wall/steel work or glass.



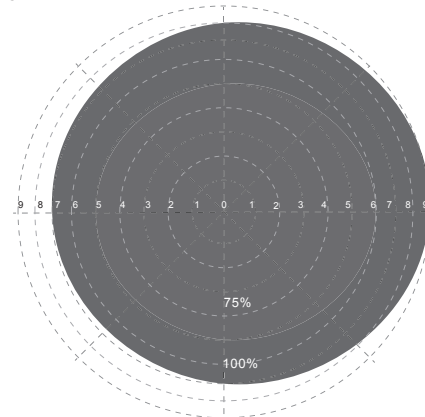
Detection area diagrams

Ceiling installation 12m



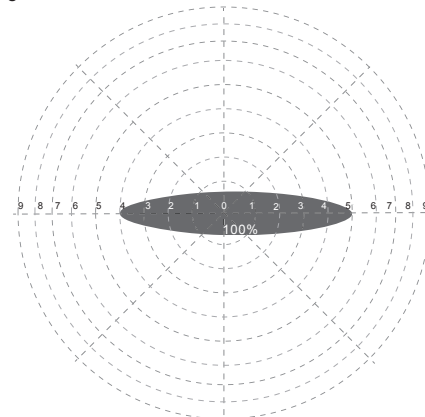
Speed 1m/s, High sensing mode

Ceiling installation 10m



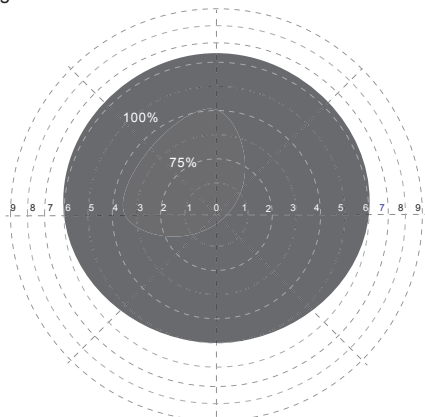
Speed 1m/s, High sensing mode

Ceiling installation 12m



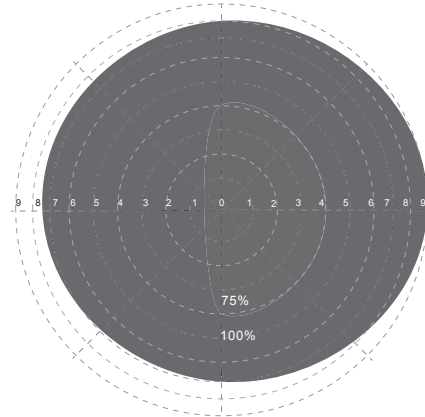
Speed 1m/s, Low sensing mode

Ceiling installation 10m



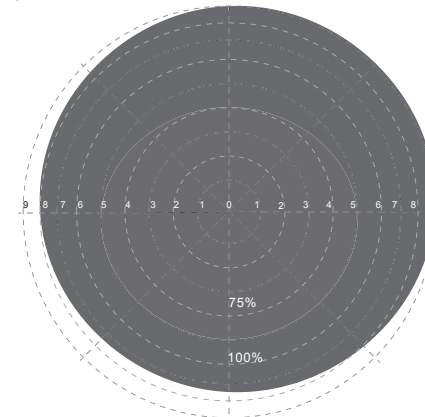
Speed 1m/s, Low sensing mode

Ceiling installation 12m



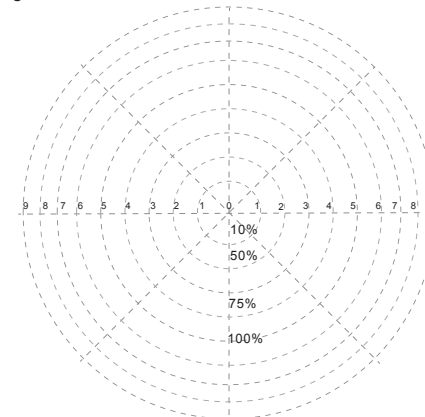
Speed 0.3m/s, High sensing mode

Ceiling installation 10m



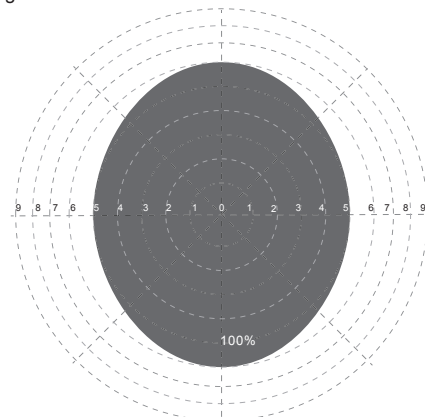
Speed 0.3m/s, High sensing mode

Ceiling installation 12m



Speed 0.3m/s, Low sensing mode

Ceiling installation 10m



Speed 0.3m/s, Low sensing mode