| Project: |
| By: |
| Cat No: |
| Type: |
| Date: |

DESCRIPTION:

Multi-functional tri-proof linear luminaire (IP65):
- ✔ Modular design with a multitude of features
- ✔ Simple and flexible installation
- ✔ Suitable for multiple applications
- ✔ Advantageously replaces typical fluorescent strips

FEATURES:

- ✔ Universal input voltage 120 - 347 Vac
- ✔ CCT selectable switch: 3500K-4000K-5000K
- ✔ Lumen output selectable switch: 100%-75%-50%
- ✔ 0-10V Dimming
- ✔ Basic luminaire ready to receive an occupancy sensor (optional)
- ✔ Programmable occupancy sensor:
  - ▶ Lighting level in the absence/presence of people
  - ▶ Operation times
- ✔ Three types of installation: standalone, in series, seamless

APPLICATIONS:

- ✔ Factories and warehouses
- ✔ Stores
- ✔ Corridors and staircases
- ✔ Indoor parkings

WLS Series

Power	18 - 55 W
Lumen	2340 - 8000 Lm
Input Voltage	120-347 Vac
Length	2 - 4 feet
CCT selectable switch	3500K / 4000K / 5000K
Lumen output selectable switch	100% / 75% / 50%
Occupancy sensor (optional)	Microwave or PIR
Dimming	0-10V
Programmable	Yes with RC-HD05R
CRI	> 80
Certifications	UL / DLC 5.1 Premium / IP65 / IK08

Features
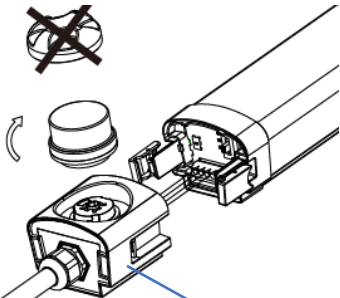
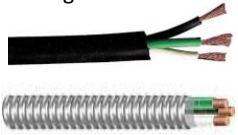The luminaire is sensor ready. Add an occupancy sensor at any time (Option A)
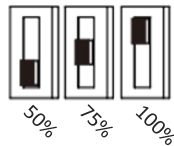
IP65 / IK08

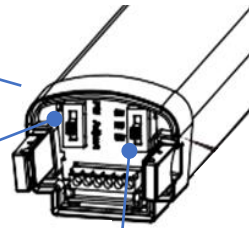DLC Premium 5.1
120 – 347 Vac

Programmable

Power input:
Accepts Carol or BX type cables and fittings

Lumen output selectable

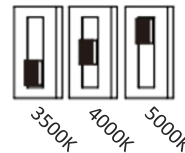50%   75%   100%

Customize CCT and Lumen output at installation

CCT selectable

3500K   4000K   5000K
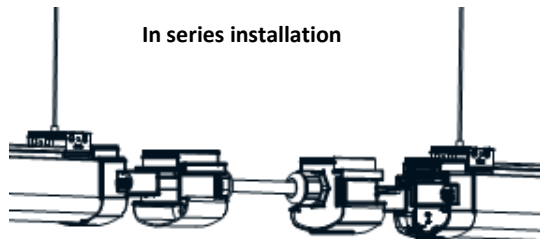
In series installation
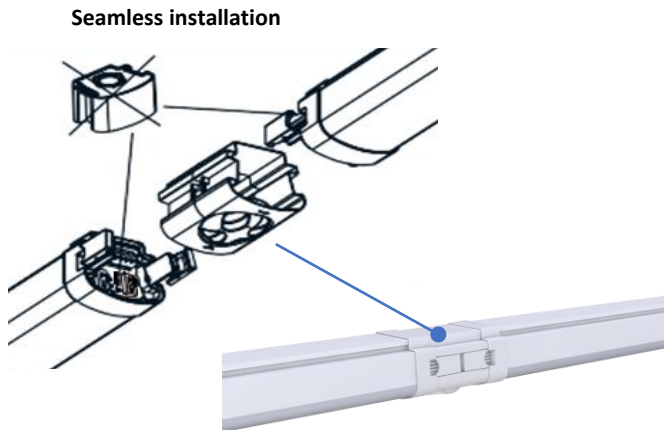
Seamless installation

Accessories

Option A

Plug-in occupancy sensor. Supports Microwave and PIR technology. 0-10V dimming. Programmable

p/n: OS-HD06V

Option B

Remote control for programming of the occupancy sensor settings
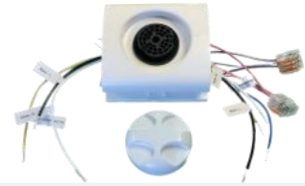
p/n: RC-HD05R

Option C

End Cap for series installation

p/n: MDCC-WLS

Option F

Connector for seamless installation - without sensor receptacle. Wiring included
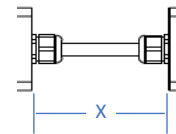
p/n: MDCF-WLS

Option G

Connector for seamless installation - with sensor receptacle. Wiring included

p/n: MDCG-WLS

Option H

Swivel bracket for seamless installation mounted directly on a ceiling surface. Allows you to easily release a luminaire for maintenance.
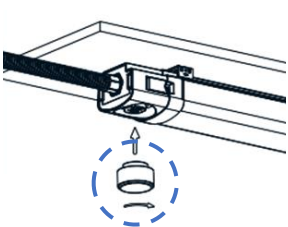
p/n: MDBH-WLS

Option J

Jumper cable for series installation. For space between luminaires of 24 and 48 inches
Note: to be used with option C
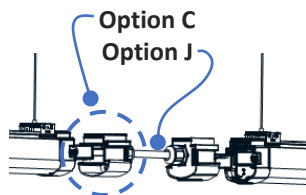
p/n: HA600V183-x (x = 24, 48)

Hardware

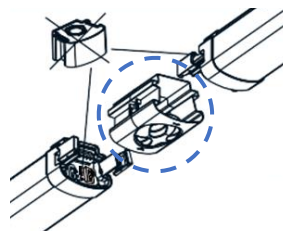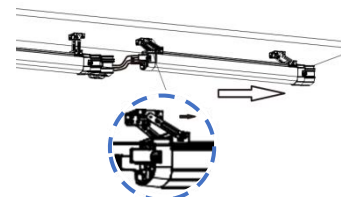Installation accessories: Mounting bracket and hardware included (hanging wires not included)
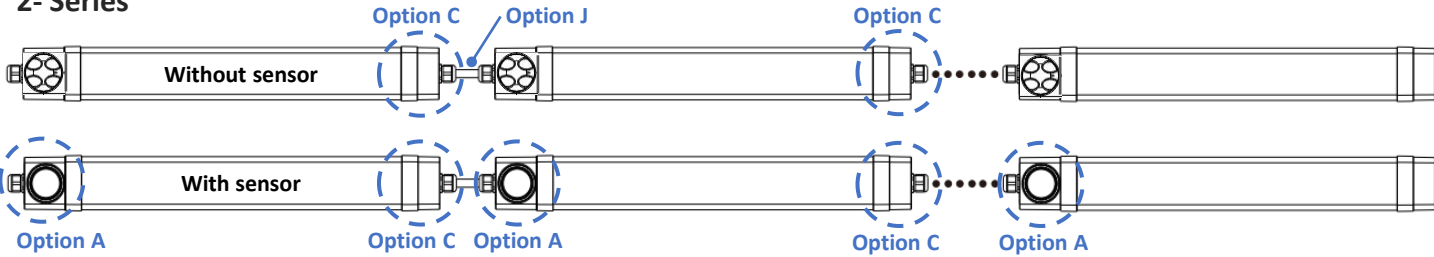
Option A

Option C
Option J

Option F or G

Option H

Possible configurations

1- Standalone

Without sensor

With sensor

Option A

2- Series

Option C **Option J** **Option C**

Without sensor

With sensor

Option A **Option C Option A** **Option C** **Option A**

3- Seamless

Option F **Option F**

Without sensor

With sensor

Option F ou G **Option G Option A [1]**
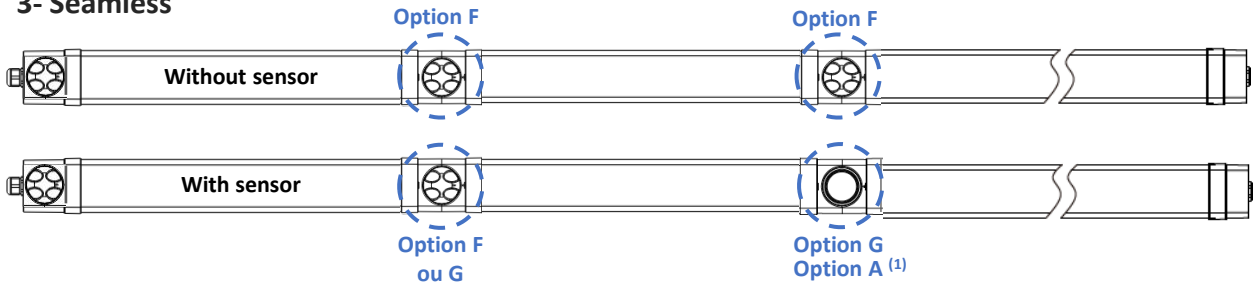
Summary	Standalone		Series		Seamless	
	w/o sens	w/ sens	w/o sens	w/ sens	w/o sens	w/ sens
WLS4-55W-CTC-LV	✔	✔	✔	✔	✔	✔
Option A		✔		✔		✔ [1]
Option C			✔	✔		
Option F					✔	✔
Option G						✔
Option J			✔	✔		
Maximum quantity of WLS in series	**120 Vac**		16 x 4 ft / 32 x 2 ft			
	277 Vac		24 x 4 ft / 48 x 2 ft			
	347 Vac		32 x 4 ft / 64 x 2 ft			

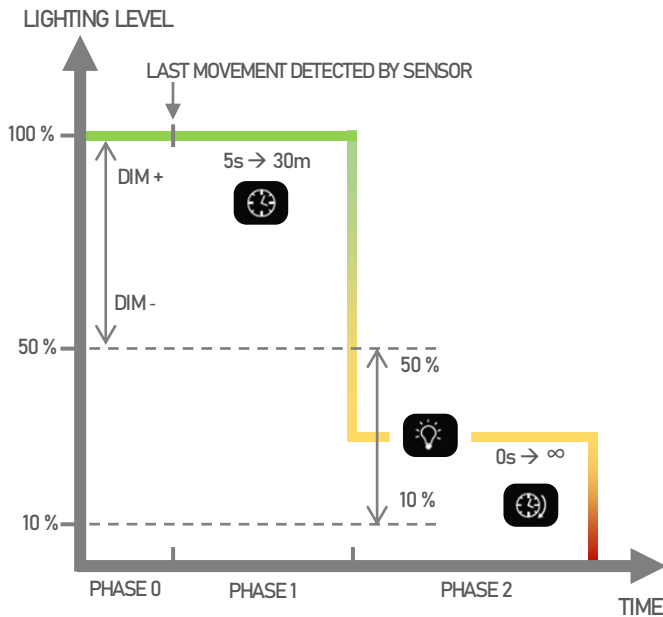**Note [1] :** The occupancy sensor can control up to 4 luminaires and can be installed on any luminaire.

Ex: 8 seamless luminaires

Option: G+A F/G F/G F/G F/G G+A F/G
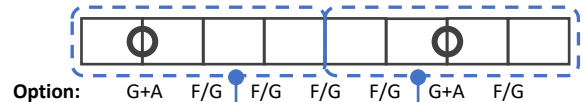
Block of 4 luminaires controlled by one sensor installed on any luminaire in the block

◯ = occupancy sensor

Principle of operation

Phase 0 : As long as a person is detected by the sensor, the luminaire is at its maximum intensity.
Adjustable lighting level with « Power % »

Phase 1 : In the absence of movement, the luminaire will hold its maximum intensity for a selectable duration of 5s / 30s / 1min / 3min / 5min / 10min / 20min / 30min. (hold period)

Phase 2 : If no movement is detected during the hold period, the luminaire will dim to an adjustable intensity of 10% / 20% / 30% / 50% (stand-by period).

The reduced light level will be maintained for a selectable duration of 0s / 10s / 30s / 1min / 5min / 10min / 30min / 60min / - - before going off.

Example:
By adjusting the stand-by period to 0s, the luminaire will turn off directly after the hold period without going through a reduction in lighting.

By adjusting the stand-by period to - -, the light will keep its intensity reduced indefinitely without ever turning off in the absence of movement.

For more details on the operation and programming of the motion sensor see the
RC-HD05R USER GUIDE

Recommendations for the optimum operation of motion sensors

Maintain a minimum distance of 3 meters between motion sensors.

Suspended fixtures should be installed on rods instead of chains to prevent fixture movement. Movement of the luminaire may trigger false motion detection.

The motion sensor does not differentiate between a human and any other moving objects within its detection zone. So, beware of fans, forced air heating equipment, conveyors or any other equipment that could create movement on objects and thus trigger a false detection

Large reflective surfaces (metal, concrete or glass) near a motion sensor may cause false detections due to microwave reflection off these surfaces.

We recommend a preliminary installation of a few luminaires to validate the performance of the motion sensors in the project environment.

Caution: The installation of a luminaire equipped with a motion sensor does not replace the installation of a night light for security. Light fixtures with a motion sensor are intended to reduce power consumption, not to replace a circuit breaker.

Dimensions
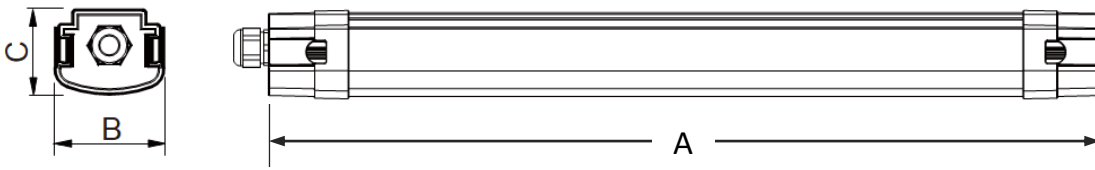
Specifications

| WLS Series	2 feet	4 feet
No item	WLS2-18W-CTC-LV	WLS4-55W-CTC-LV
Power	18 W	55 W
Lumen	2340 Lm	8000 Lm
Input Voltage	120-347 Vac / 50-60 Hz	
Efficiency	137 to 143 Lm/W	
Operating Temperature	-30 °C to 40 °C	
CCT Selectable	3500K / 4000K / 5000K	
Lumen output selectable	100% / 75% / 50% (18W – 13W – 9W)	100% / 75% / 50% (55W – 41W – 28W)
Occupancy sensor (optional)	Microwave or PIR	
Dimming	0-10V	
Programmable	Yes with RC-HD05R	
CRI	> 80	
Power Factor	> 0.9	
Total Harmonic Distortion (THD)	< 20%	
Internal overvoltage protection	Yes	
LED life (L70)	> 100 000 Hrs	
Housing	Polycarbonate Co-Extrusion	
Lens	Polycarbonate Frosted	
Installation	Standalone / Series / Seamless	
Weight	1,4 kg / 3,1 lbs	
Certifications	UL / DLC 5.1 Premium (4 feet) / IP65 / IK08	
DLC 5.1 Premium ID	n/a	S-M253GC

Dimensions (mm/in)

	2 feet	4 feet
A	628/24,7	1228/48,4
B	78/3,1	78/3,1
C	60/2,4	60/2,4

DLC Data (4 feet)

CCT Nominal	CCT (K)	Watt (W)	Lumen (Lm)
3500K	3378K	58,4	8020
4000K	4073K	57,7	8258
5000K	5004K	58,4	8183

Item tested:	WLS4-55W-CTC-LV
Test voltage:	120Vac
CCT tested:	4000K
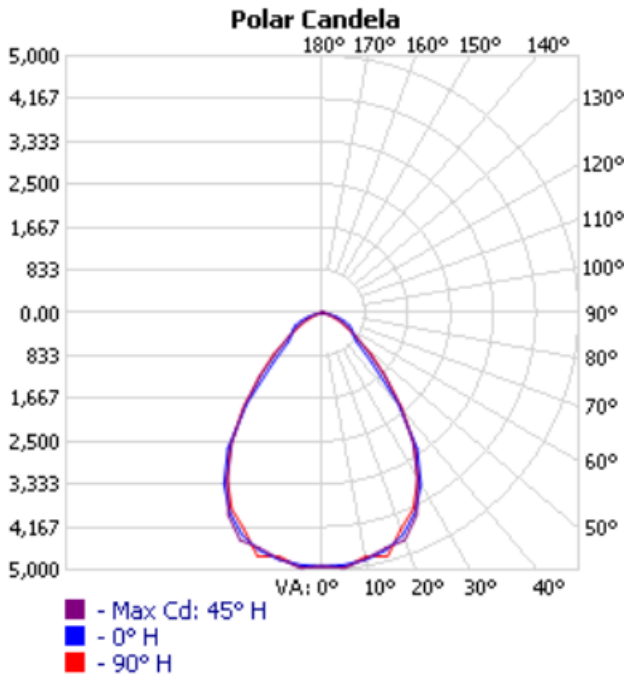
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	3,771.5	44.7%	44.9%
0-40	5,697.2	67.6%	67.8%
0-60	7,680.4	91.1%	91.3%
60-90	691.4	8.2%	8.2%
70-100	258.2	3.1%	3.1%
90-120	8.1	0.1%	0.1%
0-90	8,371.7	99.3%	99.6%
90-180	36.9	0.4%	0.4%
0-180	8,408.6	99.7%	100%

Polar Candela

- Max Cd: 45° H
- 0° H
- 90° H

Item	Description	Comments
WLS4-55W-CTC-LV	120-347V / 55W / 4 feet	**Required** Basic luminaire
OS-HD06V	Occupancy sensor **Option A**	**Optional** luminaire is ready to receive the detector at all times
RC-HD05R	Remote Control **Option B**	**Optional** minimum of 1 per project if programmation is required
MDCC-WLS	End Cap for series installation **Option C**	**Required** for in-series installation
MDCF-WLS	Connector for seamless installation - without sensor receptacle **Option F**	**Required** for seamless installation if the sensor is not required (option G can be used at all times)
MDCG-WLS	Connector for seamless installation – with sensor receptacle **Option G**	**Required** for seamless installation if the sensor is required
MDBH-WLS	Swivel bracket for seamless installation **Option H**	**Recommended** for seamless installation when mounted directly on ceiling
HA600V183-x	Jumper cable for series installation (x = 24, 48) **Option J**	**Optional** for in-series installation

RC-HD05R User Manual (en)

WLS Installation Manual (en)

WLS Installation Video