paul russells®

B3 SERIES

Tri-colour, Tri-power, All-weather LED Bulkhead

Instruction manual

www.paulrussells.com

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paul russells®
LED Bulkhead

UK CA CE IP65 IK10

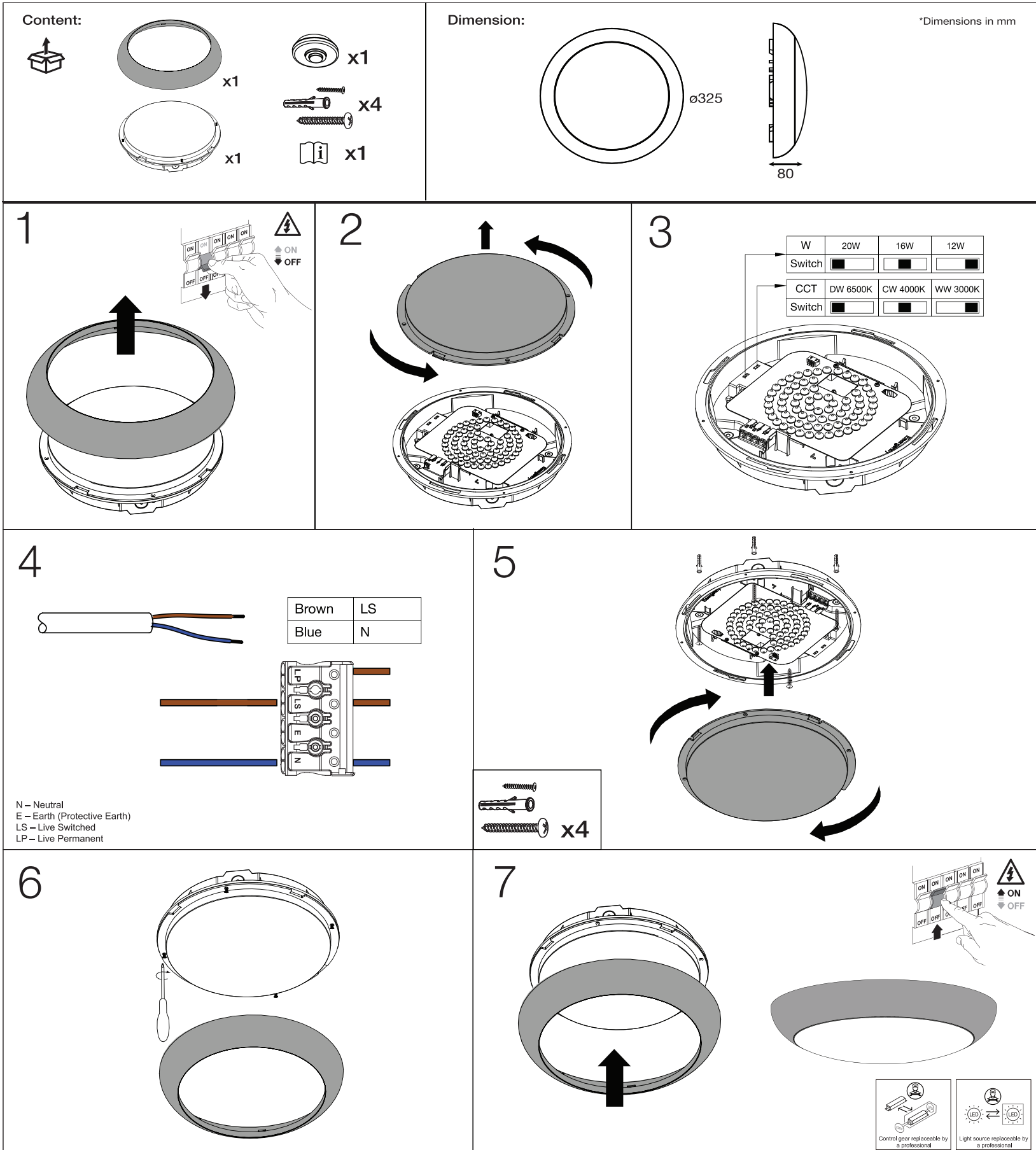## B3 SERIES

Please read these instructions carefully before installation and retain them for future reference:

Installation must be carried out by a qualified electrician or technician.
We cannot be held liable for any issues that may arise due to improper installation.
Before starting installation or performing maintenance, ensure the electricity supply is switched off at the mains.
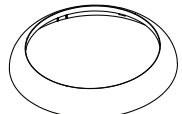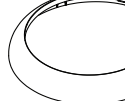
Content: x1 / x1 / x4 / x1

Dimension: ø325 / 80 *Dimensions in mm

1

2

3

	W	20W	16W	12W
Switch				
CCT	DW 6500K	CW 4000K	WW 3000K
Switch			

4

| Brown | LS |
| Blue | N |

N = Neutral
E = Earth (Protective Earth)
LS = Live Switched
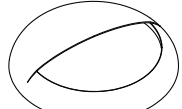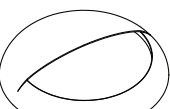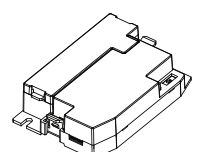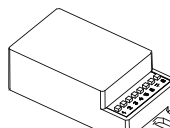LP = Live Permanent

5 x4

6

7

Light Source Information:
This product contains a light source of energy efficiency class D.

This light fitting is double insulated, so it does not need to be connected to an earth wire.

B3 SERIES

⚠ Switch off the power before changing the wattage or colour temperature for safety.
(Default factory settings: 3000K, 12W)

⚠ The installation diagram applies to standard, sensor, and emergency modules. Please be aware that the internal components may differ.

⚠ This product contains a non-user-replaceable LED light source. Replacement must be carried out by authorised professionals only.
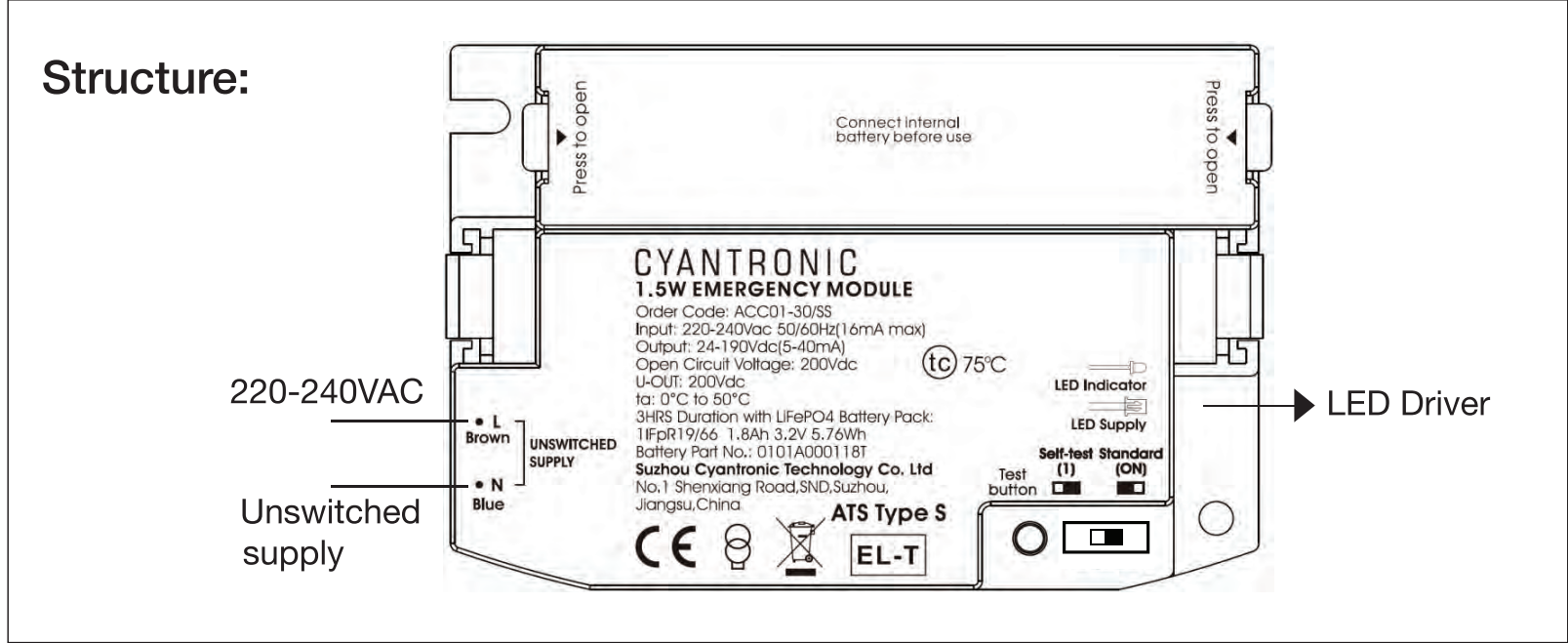The control gear in this product can only be replaced by authorised professionals.

Accessories for B3 Series Bulkhead
The following accessories are available for purchase separately.

Plain (Chrome) Code: 24910		Plain (Black) Code: 24880
		Grill (Black) Code: 24927
Eyelid (White) Code: 24897		Eyelid (Black) Code: 24903
Emergency Module Code: 24941		Microwave sensor Code: 24934

SAFETY INSTRUCTIONS
Modifying the light's structure is strictly prohibited. Keep it out of the reach of children. Take care during assembly to prevent damage. Ensure that no moisture enters the connection areas during maintenance. Please recycle the product at the end of its service life.

This marking indicates that this product should not be disposed of with regular household waste across the UK and EU. To prevent potential harm to the environment or human health from uncontrolled waste disposal, please recycle it responsibly to encourage sustainable reuse of material resources.
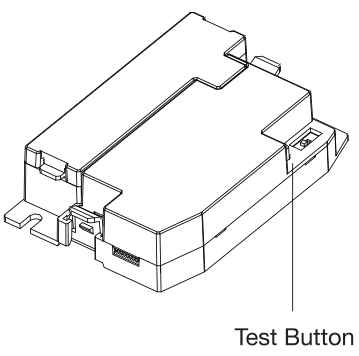

Emergency Module Operation & Settings

B3 SERIES

Structure:

Connect internal battery before use

Press to open

CYANTRONIC
1.5W EMERGENCY MODULE
Order Code: ACC01-303S
Input: 220-240Vac 50/60Hz(16mA max)
Output: 24-140Vdc(5-40mA)
Open Circuit Voltage: 200Vdc
U-OUT: 200Vdc
Io: 0°C to 50°C
36RS Duration with LiFePO4 Battery Pack:
1Ep01Y0s6 :1.4in 3.2V 5.7Wh
Battery pack: D10(ACC01-303S)
Suzhou Cyantronic Technology Co. Ltd
No.1 Shenxiang Road,SND,Suzhou,
Jiangsu,China
ATS Type S
EL-T
75°C
LED Indicator
LED Supply
LED Driver
Test button (1) (ON) Self-test Standard

220-240VAC
L Brown
Unswitched supply
N Blue
➤ LED Driver

LED Indicator
Status & Meaning

LED indication		Description	Status	Standard Mode	Self-test Mode
✳ green		Green always on	System healthy and in normal operating mode	✔	✔
✳		LED off (No light displayed)	Emergency mode: Mains failure or mains disconnected	✔	N/A
			Battery disconnected	✔	N/A
✳ green		Green slow flash (0.5s on-0.5s off)	Duration test is pending	N/A	✔
✳ green		Green medium flash (0.25s on-0.25s off)	Duration test is in progress	N/A	✔
✳ green		Green fast flash (0.125s on-0.125s off)	Functional test running (Quick system check)	N/A	✔
✳ red		Red permanently on	Battery charging fault	N/A	✔
✳ red		Red medium flash (0.25s on-0.25s off)	Battery failed duration test	N/A	✔
✳ red		Red fast flash (0.125s on-0.125s off)	Lamp or driver fault	N/A	✔
✳ red		Off 1s then red stay on 5s	Current test interval: 26 weeks	N/A	✔
✳ red		Off 1s then red fast flash 5s(0.125s on-0.125s off)	Current test interval: 52 weeks	N/A	✔

Test Button Actions & Functions:
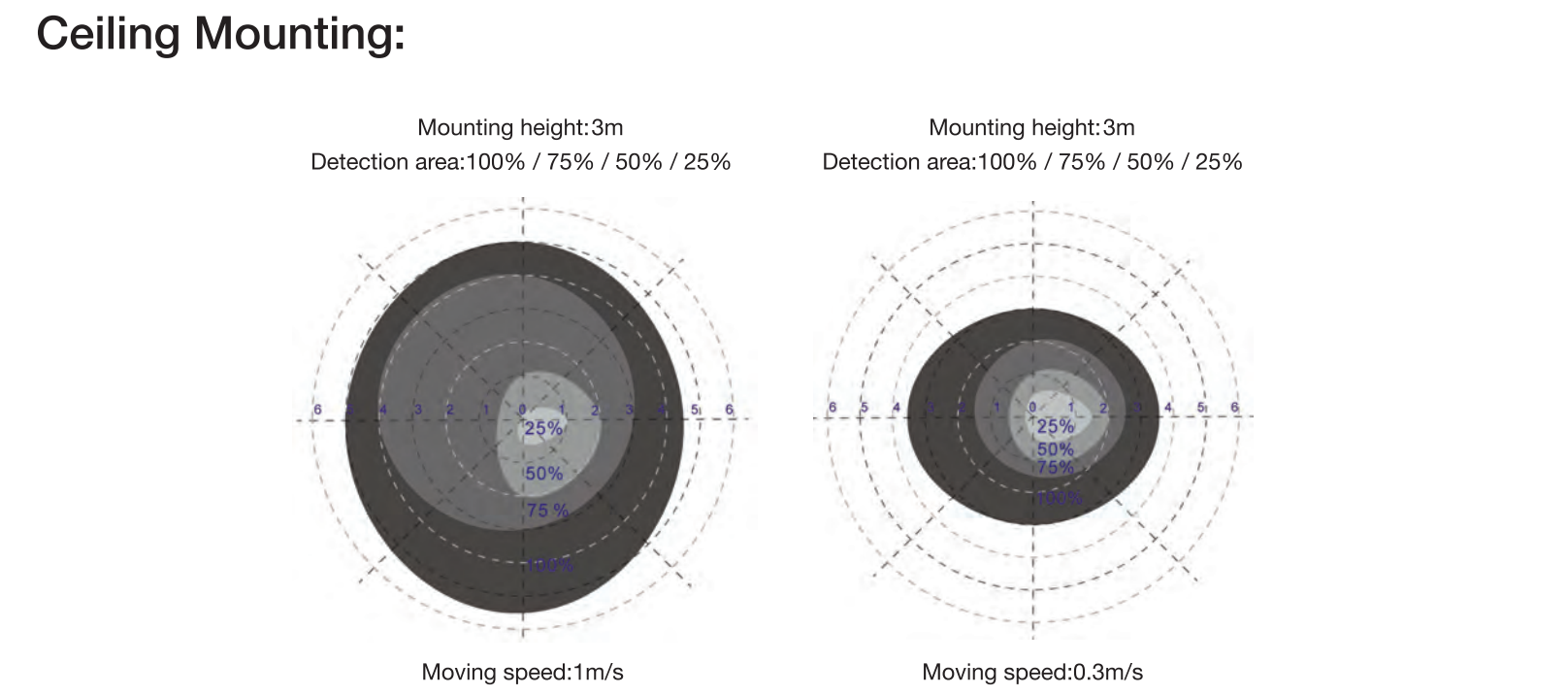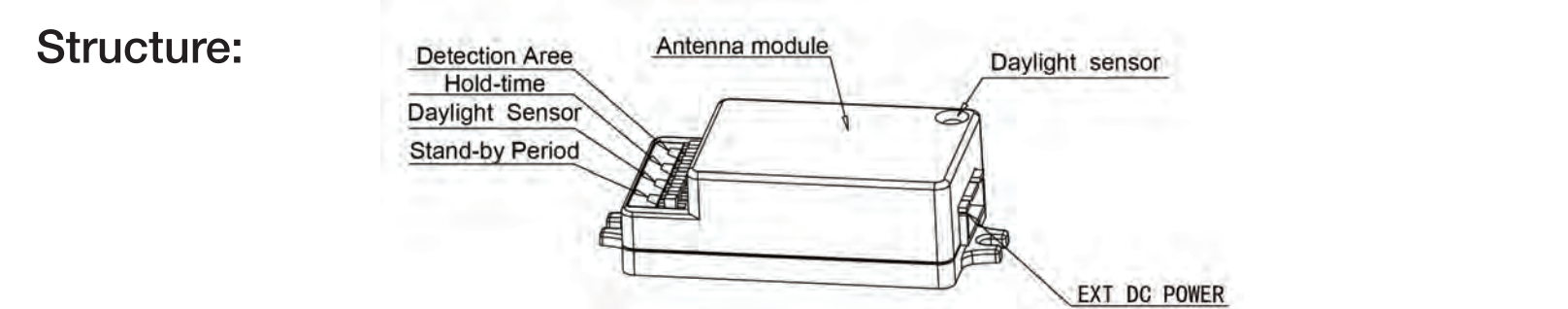Use the test button to perform manual functional and duration tests, depending on the selected operating mode.

Description	Function	Standard Mode	Self-Test Mode
Hold down	Starts a manual functional test	✔	N/A
Press 1-2s	Starts a manual functional test	N/A	✔
Press 5-10s	Starts a full duration test in Self-Test Mode (3-hour long test-if the battery is full)	N/A	✔
Quick press (less than 1 second)	Confirms current duration test interval via LED indication	N/A	✔
Quick double press (less than 1 second)	Sets how often the emergency test runs (26 or 52 weeks)	N/A	✔
Quick double press while in emergency mode	Activates rest mode (Temporarily disables the emergency light output)	✔	✔

Test Button

Note:
The green LED shows operational and test states.
The red LED indicates fault conditions.
When the LED is completely off, the unit is in emergency mode, running on battery backup (normal during a power cut).
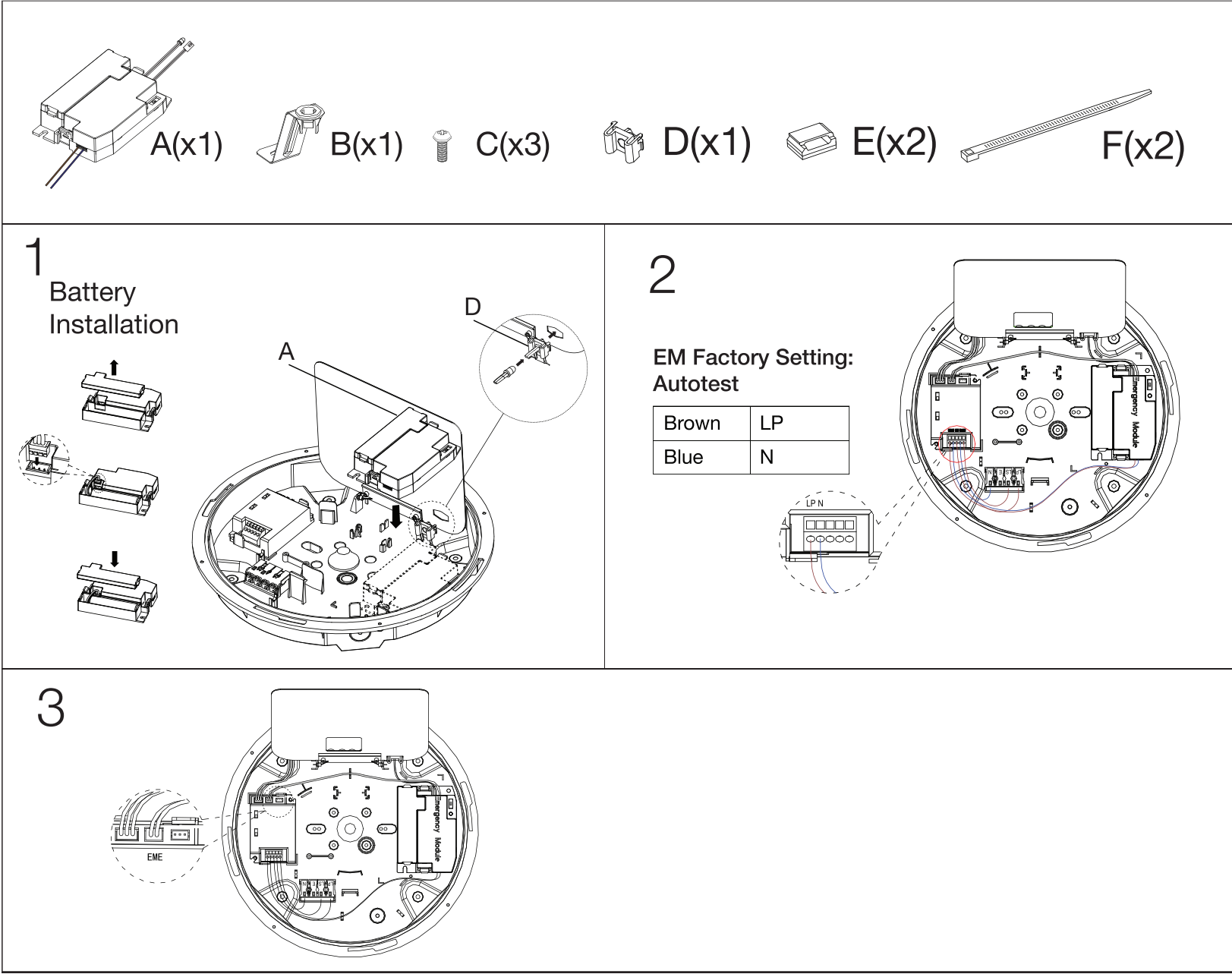

Sensor Operation & Settings

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Structure:

Detection Area
Hold-time
Daylight Sensor
Stand-by Period
Antenna module
Daylight sensor
EXT DC POWER

Ceiling Mounting:

Mounting height: 3m
Detection area: 100% / 75% / 50% / 25%
Moving speed: 1m/s

Mounting height: 3m
Detection area: 100% / 75% / 50% / 25%
Moving speed: 0.3m/s

Dip Switch Setting:

1. Detection Area

	1	2	
I	ON	ON	100%
II	-	ON	75%
III	ON	-	50%
IV	-	-	25%

2. Hold Time

	3	4	
I	ON	ON	5S
II	-	ON	90S
III	ON	-	3min
IV	-	-	10min

3. Daylight Sensor

	5	6	
I	ON	ON	+∞
II	-	ON	50Lux
III	ON	-	15Lux
IV	-	-	5Lux

4. Stand-by Period

	7	8	
I	ON	ON	0S
II	-	ON	30S
III	ON	-	10min
IV	-	-	+∞

Sensor Specification:

Operating Voltage:	7.5–12V DC	Mounting Height:	Typical: 3m, Max: 6m
Working Mode:	5V PWM signal	Hold Time:	5s / 90s / 3min / 10min
HF System:	5.8 GHz ±75 MHz	Daylight Sensor:	5 lux / 15 lux / 50 lux / Disable
Power Consumption:	< 0.2W (stand-by mode)	Operating Temp:	-25°C to +70°C
Detection Area (Radius):	Up to 6m radius	IP:	IP20

Note:
For Daylight Sensor: +∞ disables light-level detection — the light will activate when motion is detected, even in daylight.
For Standby Time: +∞ means the light stays on at a lower brightness level after motion stops — it will not turn off completely.

Emergency module installation

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A(x1) B(x1) C(x3) D(x1) E(x2) F(x2)

1 Battery Installation

2 EM Factory Setting: Autotest

| Brown | LP |
| Blue | N |

3

Microwave sensor installation

A(x1) B(x1) C(x1) D(x2)

1 A+B

2