210mm

290mm

PHILIPS

CoreLine
Wall mounted

WL140V

4x
ST3.9 x 25

protective ringx1

0.5Nm
P1

0.5Nm
3mm

Ø6

CE			D	EK 05	indoor	outdoor *		220V 240V	50Hz 60Hz		IP65	IK10	Ta 25 ℃	Max. 40℃ Min. -20℃	GLOW WIRE 650 ℃	

	Lumen output(lm)	CCT (K)	Power(W)	Energy efficacy class	Driver	Options	kg
WL140V 14_24_40S/827_830_840 PSU WH	1400/2300/3600 1450/2400/4050 1500/2400/3900*	2700/3000/4000*	11/18/29*	E	PSU	NA	1.35
WL140V 14_24_40S/827_830_840 PSU MDU WH		2700/3000/4000*	12/19/30*	E	PSU	MDU	1.4
WL140V 14_24_40S/827_830_840 PSR MDU WH		2700/3000/4000*	12/19/30*	E	PSR	MDU	1.4
WL140V 40S/827_830_840 PSED WH	3600/4050/3900*	2700/3000/4000*	29	E	PSED	NA	1.4
WL140V 40S/827_830_840 WIA WH		2700/3000/4000*	29	E	WIA	NA	1.3

*defaut setting

!
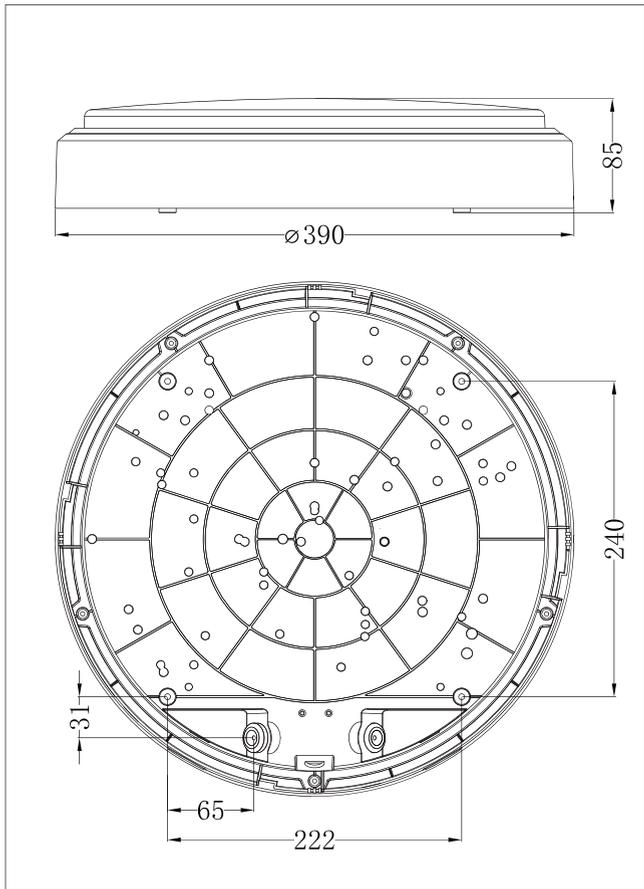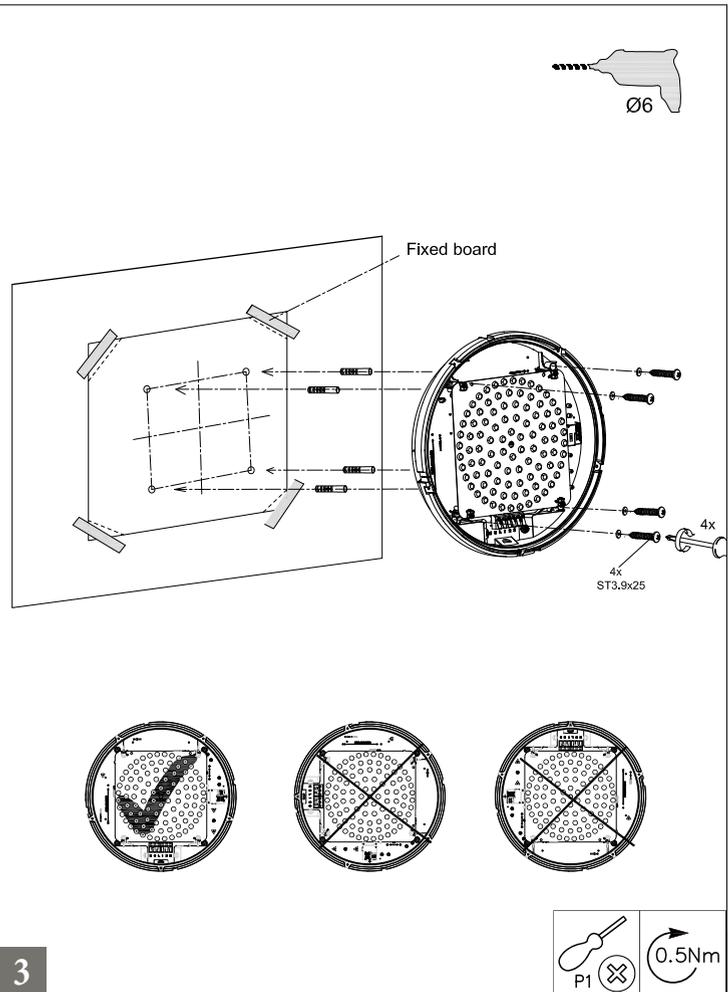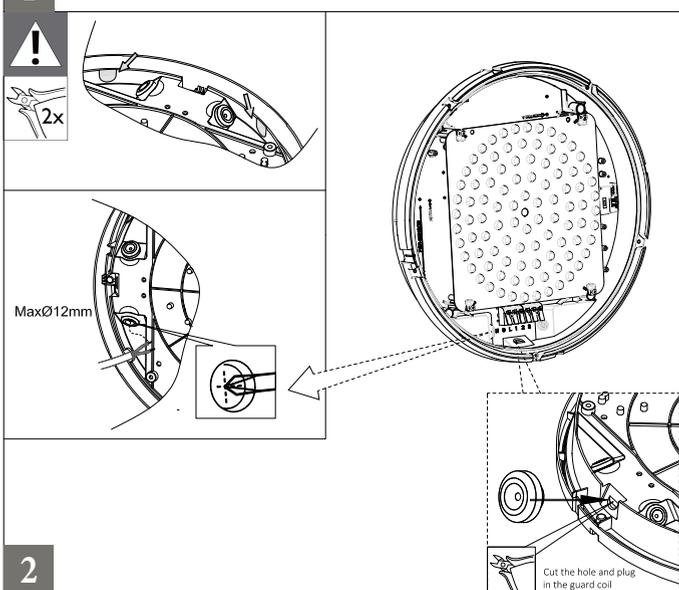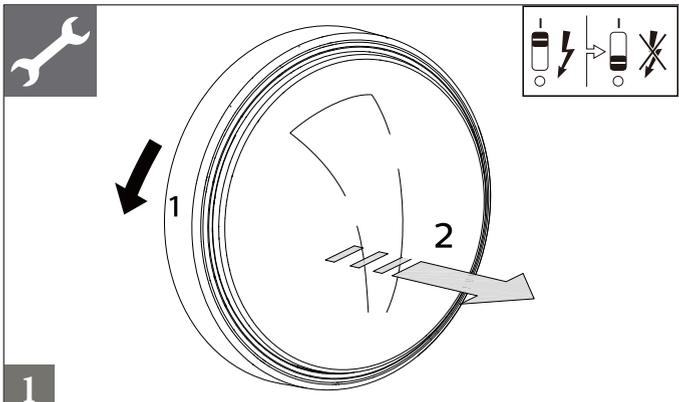
ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE
DEVICES

- For use in environments where an accumulation of conductivedust on theluminaire may be expected .
- For outdoor operation at a building, vertical wall- mounted only: all its cables shall run indoor, with a maximum distance of 10 meter.*
- For outdoor operation the luminairecan only be used in the aisle or semi-shaded environment or the environment blocked by glass, and it is not recommended to use it directly exposed to direct sunlight!

85
ø390
240
31
65
222

Inrush current

I mains (A)
I max
max/2
I nom.
Tref
Time (us)

	PSU	PSR	PSED	WIA
Electrical characteristics				
Imax (A)	14	10	9	5
Tref (μs)	7	66	22	50
MCB	Luminaires Max.			
B-10 A	20	25	20	18
B-13 A	25	32	25	20
B-16 A	32	42	32	24
C-10 A	33	42	33	24
C-13 A	43	58	43	31
C-16 A	54	65	54	40

1

Ø6

Fixed board

4x
ST3.9x25
4x

✓

P1

0.5Nm

2

2x

MaxØ12mm

Cut the hole and plug
in the guard coil

3

Power switch and Color
temperature switch

PSU
PSU+MDU

⚠ WARNING

OFF

WL140V 14_24_40S/827_830_840 PSU WH

11W 18W 29W

LO ME HI

* defaut setting

WL140V 14_24_40S/827_830_840 PSU MDU WH

12W 19W 30W

LO ME HI

* defaut setting

Power

* 4000K 3000K 2700K

CW NW WW

CCT

* defaut setting

PSR+MDU:
WL140V 14_24_40S/827_830_840 PSR MDU WH

switch   Power switch

Po(w)	1	2
30W	ON	ON	*
19W	1	ON
12W	–	–

* defaut setting

* defaut setting

PSED:
WL140V 40S/827_830_840 PSED WH
WIA:
WL140V 40S/827_830_840 WIA WH

switch

4000K 3000K 2700K
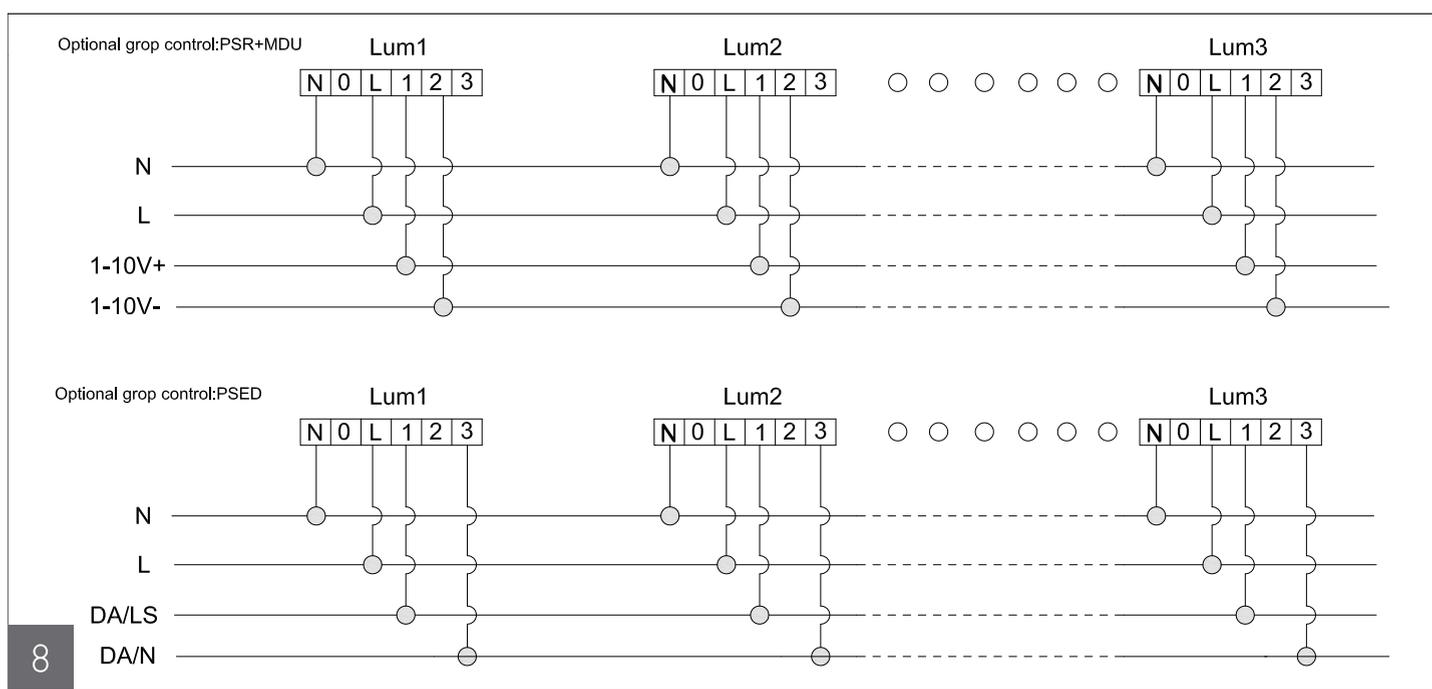
* defaut setting

4

5

Max.10 luminaires.

Min 1.00mm²
Max 1.50mm² Ø6-Ø12mm

PSU PSU+MDU PSR PSED WIA	N L	7 30
1~10V	Yellow 1-10V + Green 1-10V - Blue N Brown L	
DALI	Black DA/N Red DA/Ls Blue N Brown L	

6

CLICK

3mm / 0.5Nm

✔

✘

7

N O L 1 2 3

Type	N	0	L	1	2	3
PSU	N		L			
PSU+MDU	N		L			
PSR+MDU	N		L		1-10V+	1-10V-
PSED	N		L		DA/LS	DA/N
WIA	N		L			

8

Optional grop control:PSR+MDU

Lum1 Lum2 Lum3

N 0 L 1 2 3

N
L
1-10V+
1-10V-

Optional grop control:PSED

Lum1 Lum2 Lum3

N 0 L 1 2 3

N
L
DA/LS
DA/N

PSU Motion Detection Unit (MDU)

PSU MDU is suitable for all applications where individual luminaire sensing is sufficient. Sensor has on/off, dimming, timing and daylight sensing functionalities. Below tables explain how to set switches depending on your preferences.
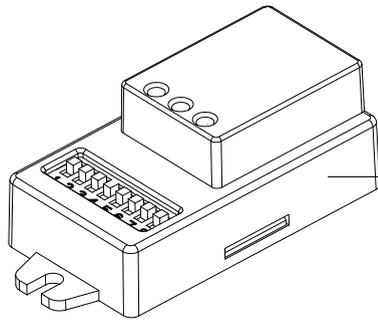
Detection Area	Hold Time		Daylight Sensor	Stand-by Period		Stand-by DIM Level
1	2	3	4	5	6	7	8

HF Motion Sensor

1 2 3 4 5 6 7 8
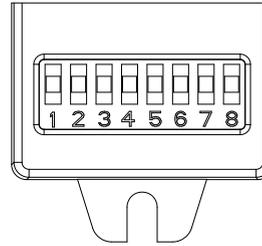
	1	
I	ON	100%
II	-	50%

Detection area. (default 100%) show patterns.

Detection area can be reduced to 50% by selecting the combination on the DIP switches to fit precise applications.

	2	3	
I	ON	ON	5S
II	ON	-	1min
III	-	ON	5min
IV	-	-	10min

Hold time. (default 5 min.)

Refers to the time period where the luminaire remains at 100% illumination after no motion is detected.

	4	5	
	ON	ON	5Lux
II	ON	-	25Lux
III	-	ON	50Lux
IV	-	-	Disable*

Daylight sensor. (default 25 lux.)

The sensor can be set to switch on the luminaire below certain light levels (5/25/50 lux). When it is set to Disable mode, sensor will switch on the luminaire when motion is detected regardless the ambient light level.

	6	7	
I	ON	ON	0S
II	ON	-	1min
III	-	ON	10min
IV	-	-	+∞

Stand-by period. (default 10 min.)

Time period of keeping dimmed levels before the luminaire is completely switched off when there is no motion.
When it is set to '∞' mode, dimmed light level is maintained until motion is detected.

	8	
I	ON	10%
II	-	25%

**Stand-by dimming level**. (default 25%)

Dimming % level when there is no motion (after the hold time) to save energy.
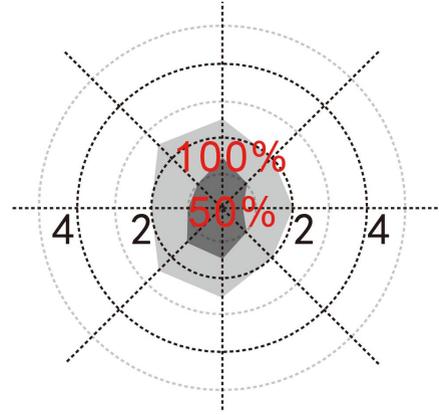
Detection area (Radiation Pattern) PSU MDU

Below diagrams show the sensor coverage with different detection area settings, ceiling heights and moving speeds.

Light grey pattern shows 100% detection area selection and dark grey area shows 50% detection area selection.
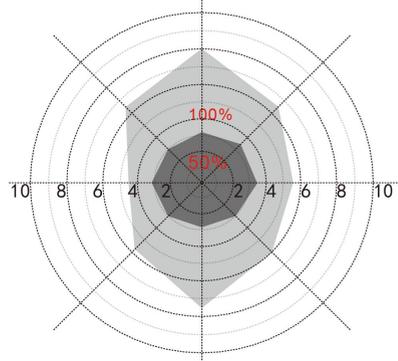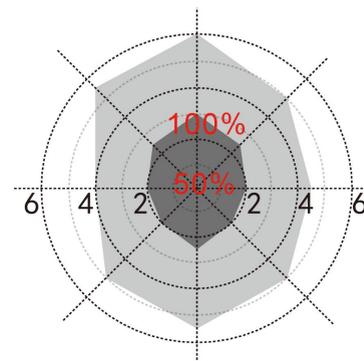
Ceiling mounted height: 3m
Sensitivity: 100%/50%
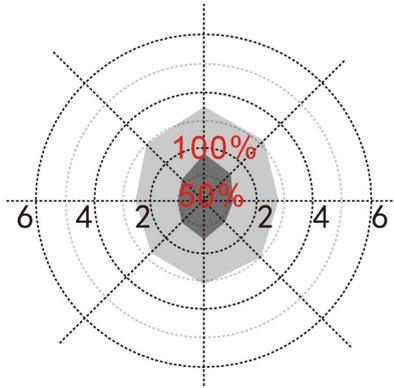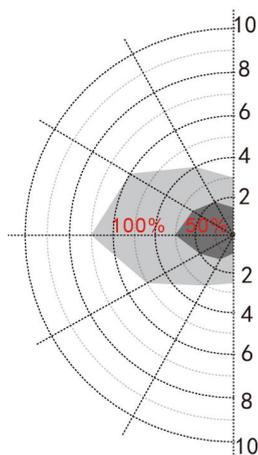
Ceiling mounted height: 6m
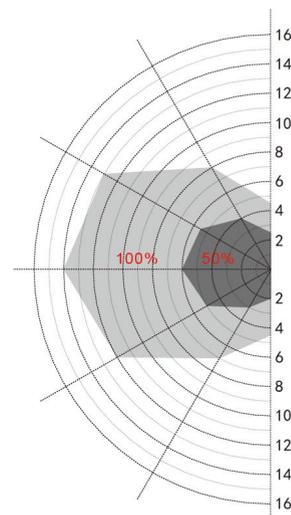Sensitivity:100%/50%

Normal moving (Speed:1m/s)

Normal moving (Speed:1m/s)

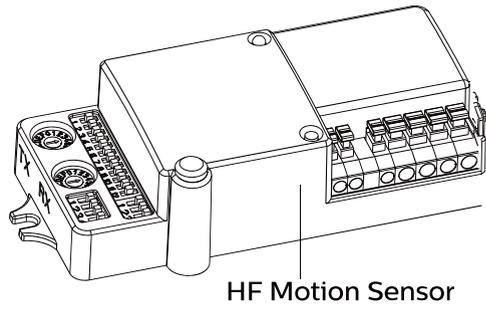Slow moving (Speed 0.3m/s)

Slow moving (Speed: 0.3m/s)

Wall mounting height: 2m
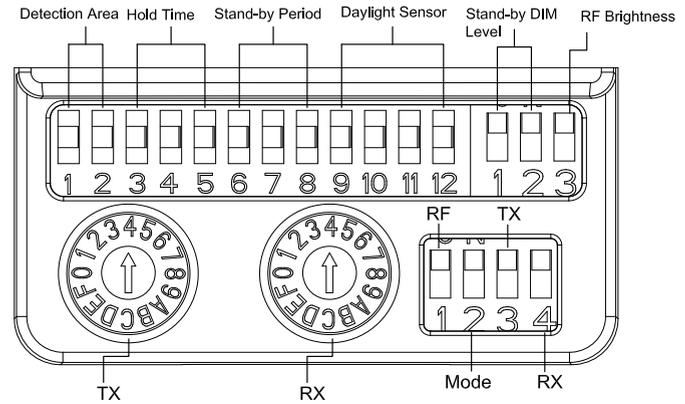
Sensitivity: 100%/50%

Normal moving (Speed: 1m/s)

Slow moving (Speed 0.3m/s)

PSR Motion Detection Unit (MDU)

PSR MDU is suitable for all applications where grouping functionality is required. Products communicate each other by receiving/transmitting signals.

HF Motion Sensor

Detection Area | Hold Time | Stand-by Period | Daylight Sensor | Stand-by DIM Level | RF Brightness

RF   TX

TX   RX   Mode   RX

Dipswitch settings
Sensor functions support below applications:

1. Single use (individual sensing as same as PSR MDU)
2. Corridor (grouping luminaires up to 10 pieces and 50 meters for max. 31 floors)
3. Staircase (grouping luminaires up to 10 pieces and 25 meters for max. 31 floors)

Dipswitch settings

	1	2	%
I	on	on	100
II	on	–	75
III	–	on	50
IV	–	–	25

Detection area （defaut setting:1,2,ON）
can be reduced to 25% by selecting the combination on the DIP switches to fit precise applications.

	3	4	5	Time
I	on	on	on	5 s
II	on	on	–	30 s
III	on	–	on	90 s
IV	on	–	–	3 min
V	–	on	on	20 min
VI	–	on	–	30 min
VII	–	–	–	+∞

Hold time （defaut setting:3,ON,4,5,OFF）
Refers to the time period where the luminaire remains at 100% illumination after no motion is detected.

	6	7	8	Time
I	on	on	on	0 s
II	on	on	–	5 s
III	on	–	on	5 min
IV	on	–	–	10 min
	–	on	on	30 min
VI	–	on	–	60 min
VII	–	–	–	+∞

Stand-by period （defaut setting:6,ON,7,8,OFF）
Time period of keeping dimmed levels before the luminaire is completely switched off when there is no motion.
When it is set to '∞' mode, dimmed light level is maintained until motion is detected.

	9	10	11	12	Lux
I	on	on	on	on	5
II	–	on	on	on	15
III	on	–	on	on	30
IV	–	–	on	on	50
	on	–	on	on	100
VI	on	on	on	–	150
VII	–	–	–	–	Disable

Daylight sensor （defaut setting:9,ON,10,OFF,11,12,ON）
The sensor can be set to switch on the luminaire below certain light levels (5-150 lux). When it is set to Disable mode, sensor will switch on the luminaire when motion is detected regardless the ambient light level.

	1	2	%
I	on	on	10
II	on	–	20
III	–	on	30
IV	–	–	50

Stand-by dimming level （defaut setting:1,ON,2,OFF）
Dimming % level when there is no motion (after the hold time) to save energy.

	3	%
I	on	100
II	–	10~50

Brightness （defaut setting:3,ON）
level of the luminaire when it detects motion.

Mode switch:

RF switch is controlling the transmit of the signal. When it is closed, sensor can only receive signal but can't transmit. So, the luminaire supports only single use functionality (stand-alone sensor).
Mode determines the application whether it is corridor or staircase.
TX and **RX** are set to ON for the floors between 0-15 of the building.
TX and **RX** are set to OFF for the floors between 16-31 floor of the building.

ON	1	RF	2	Mode	3	TX	4	RX
	ON	Open	ON	corridor	ON	A	ON	A
	–	Close	–	staircase	–	B	–	B

3 and 4 are used to set a different channel for grouping

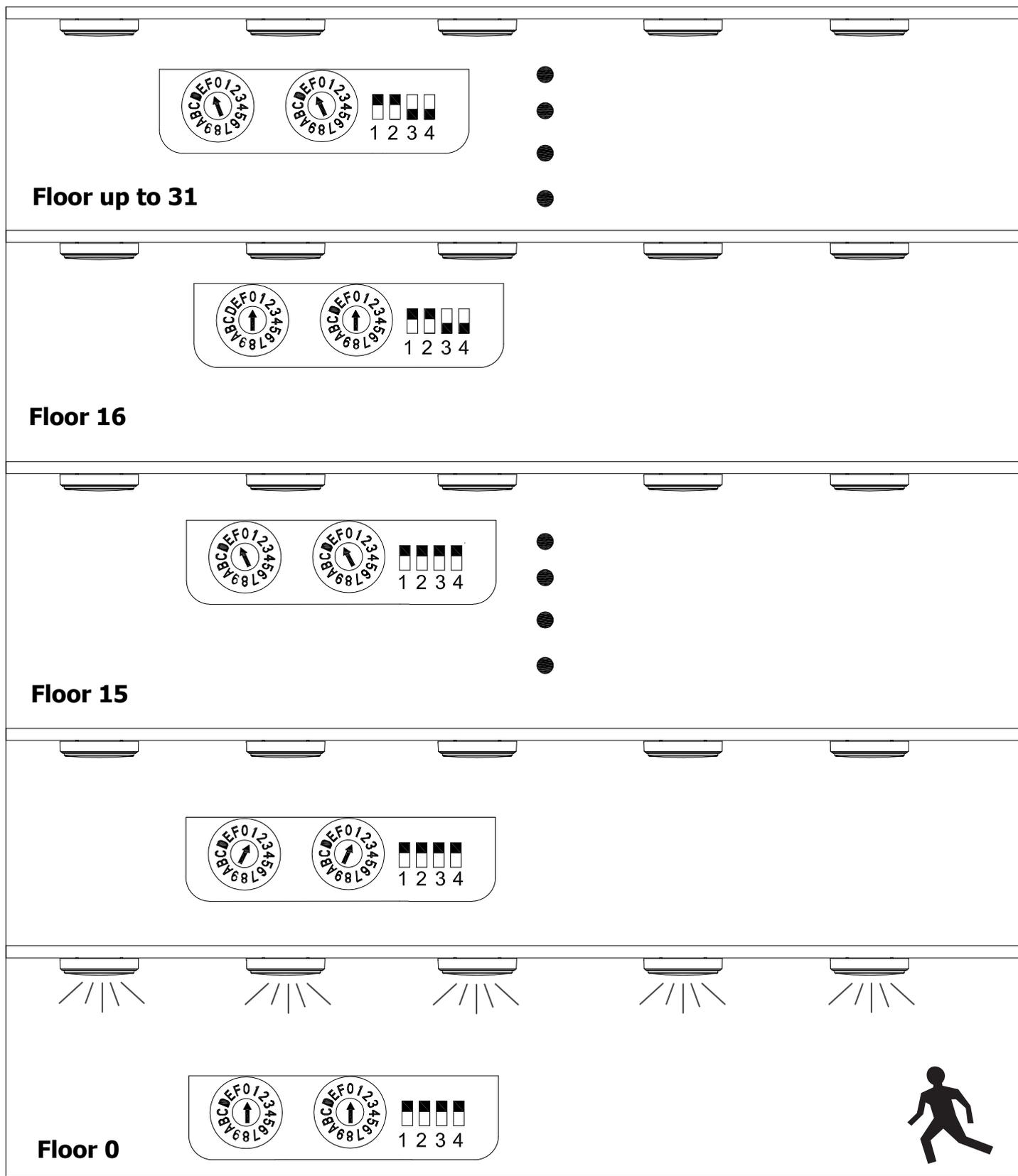## Transmission Channels (16x2 combinations)

A0 - A1 - A2 - A3 - A4 - A5 - A6 - A7 - A8 - A9 - AA - AB - AC - AD - AE - AF

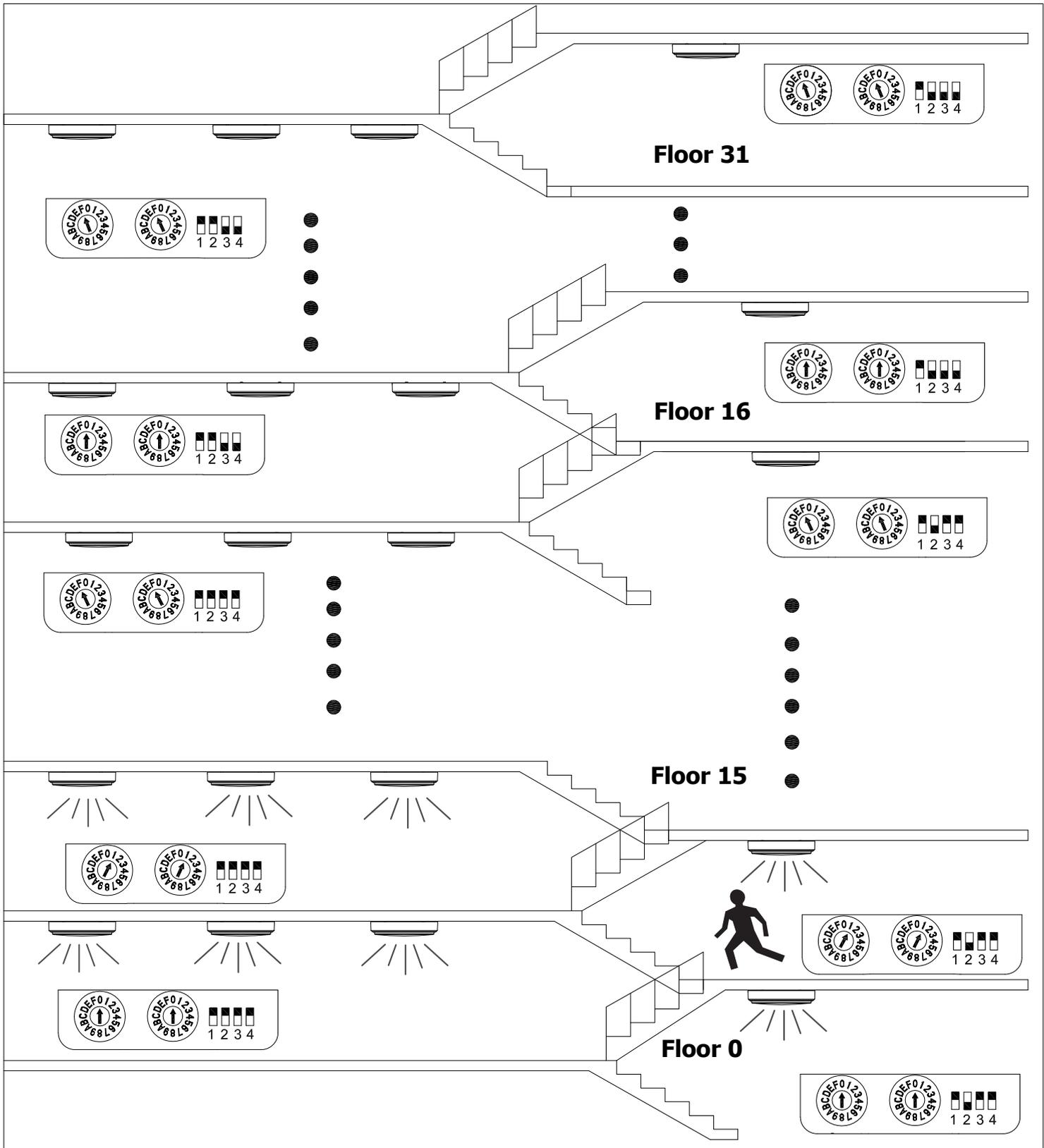BF - BE - BD - BC - BB - BA - B9 - B8 - B7 - B6 - B5 - B4 - B3 - B2 - B1 - B0
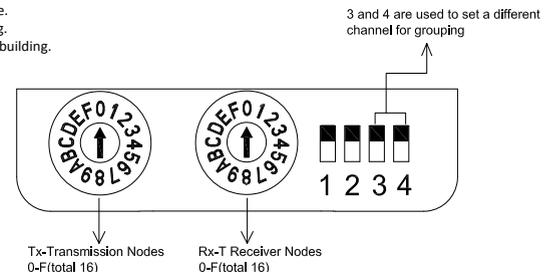
Tx-Transmission Nodes 0-F(total 16)

Rx-T Receiver Nodes 0-F(total 16)

1 2 3 4

Radio Frequency (RF) wireless grouping:
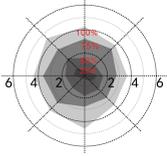## 1. Corridor

Floor up to 31

1 2 3 4

Floor 16

1 2 3 4

Floor 15

1 2 3 4

1 2 3 4

Floor 0

1 2 3 4

Radio Frequency (RF) wireless grouping:
2. Corridor + Staircase

Floor 31

Floor 16

Floor 15

Floor 0

Detection area (Radiation pattern)PSR MDU

1. Ceiling mounting
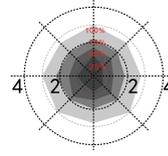
Ceiling mounted height：3m	Ceiling mounted height：6m	Ceiling mounted height：8m
Sensitivity：100%/75%/50%/25%	Sensitivity：100%/75%/50%/25%	Sensitivity：100%/75%/50%
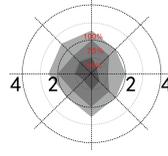
Normal moving (Speed:1m/s)	Normal moving (Speed:1m/s)	Normal moving(Speed:1m/s)
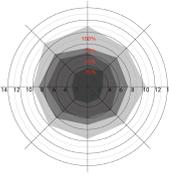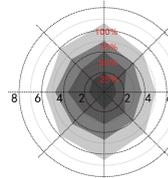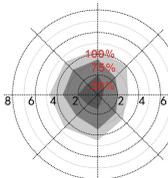
Slow moving (Speed 0.3m/s)	Slow moving (Speed 0.3m/s)	Slow moving (Speed 0.3m/s)

2. Wall mounting

Wall mounting height：2m
Sensitivity：
100%/75%/50%/25%/10%
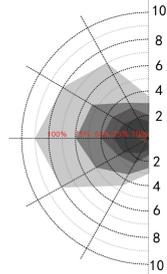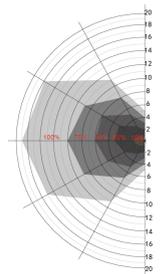
| Normal moving (Speed：1m/s)	Slow moving (Speed 0.3m/s)

Initialization

The light will turn on 100% brightness in the initial energizing sensor, and turn off after 10 seconds.Duringinitialization, no external motion sensing signal will be detected.

Default settings

Detection Area: 100% / Hold Time: 5S , Stand-by period:0s, Daylight Sensor: Disable,Stand-by DIM level: 10% , RF Brightness: 10%-50% , RF:Open , Mode: Broadcast ,TX:A , RX:

PSR MDU Note:

1：Work mode：Corridor & Staircase

2：TX: is for signal Transmitting, with 0-F 16 different channels. 1 DIP to set Group A or group B. Group A with16 channels, Group B also with 16 groups, total can set 32 groups .

3：RX: is for signal Receiving, with 0-F 16 different channels. 1 DIP to set Group A or group B . Group A with16 channels, Group B also with 16 groups ,total can set 32 groups.

4：When Master and Master set under corridor work mode, that means ,all sensors set the same channel,Any Master sensor is triggered, it will transmit the RF signal to all the lamps in the group

5：When Master and Master set under staircase work mode, that means ,when any master is triggered, it will send RF signal to 3 channels (the adjacent channel before and after the TX channel and the channel set by master itself. For example, when the master set the TX channel for "1", it will launch "0" "1" "2" three different channel signal, if other different RX channel set with"0" "1" "2", at this time will receive the corresponding channel signals, this kind of work mode is mainly applied to corridor application , note: TX "F" to launch the channel group A and B group "0" RX receives channels can connect network.

6：Master to Satellite only work as corridor mode, that means the satellite only receive the signal from master , not affect by the master work mode.

7：Satellite receive RF signal from Master, the "hold time" is determined by Master, keep the same with master's "hold time" .

8：Sensor will not transmit or receive RF signal during the Initialization time. only can transmit RF signal after the Initialization period.

9：Group A and group B of RX require the corresponding Master group A and group B of TX .

10：Indoor wireless distance without wall shielding 50 meters .

11：Indoor wireless distance with wall shielding 25 meters .

12：Work mode：Corridor application is shown in the following figure
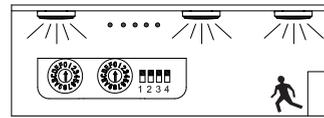
13:Work mode：Staircase application is shown in the following figure
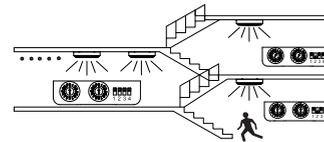
Note:

1, The CoreLine wall-mounted needs to be installed side-by-side in the same direction. Thedistance between each of the luminaires should be kept at least 3m to avoid mutual interference.

2. Please pay attention to the installation environment:

2.1. Avoid high-density objects such as: metal, glass, concrete walls, etc, with in the sensordetection area.

2,2, Avoid moving signals within the sensor detection area such as: fan, DC motor, sewerpipe, air outlet,heavy rainfall, motion behind a thin wall etc , This is to avoid false triggers ofthe sensor,

2.3.This sensor is outdoor wind and rain, and surrounding moving objects will cause falsetriggering

3, In order to reach the common sensor distance, the object move speed should be less than1m/s, If an object moves with speed higher than 1m/s, the detection distance will decrease.

4, It is advised not to install a luminaire on a wooden surface, in case it must be installed ona wooden surface, and the wood thickness must be more than 15cm .

5, To avoid smaller detection range or abnormal operation, the CoreLine wall-mountedshould not be installed in close distance to large areas of metal and glass (separationdistance at least 1 m). Please reduce detection area setting or contact Signify to confirm the situation once the CoreLine wall-mounted works fails.

PHILIPS

Optional

12NC	Description
912401483603	EM300V ELB_ELP3 kit HV 6.4V 2000mAh LFP

Emergency pack is not provided.

1x

PHILIPS

EM300V ELB_ELP3 kit HV 6.4V 2000mAh LFP

For LED modules only

12NC: 912401483603

Power: 3W
Input:220-240Vac 50/60Hz(18mA max)
Output :30-300Vdc(8-80mA)
Open Circuit Voltage:310Vdc
U-OUT:310Vdc
Ambient Temperature Range:0°C to 50°C
3HRS Duration with LiFePO4 Battery Pack:
2FeP19/66 2.0Ah 6.4V 12.8Wh
Battery Part No.:0101A0001317
Connect internal battery before use

ATS Type S

Signify
I.B.R.S./ C.C.R.I., Numéro 10461
5600 VB Eindhoven, the Netherlands

Batch: S2411-01

LED Driver Input
Mains Supply Input

Standard (ON)
Self-test (1)
Indicator

Test Button

ON

LED Driver Output

LED Supply

Products compatible with emergency lighting functionality.

12NC	Description	EOC	SKU
911401873687	WL140V 14_24_40S/827_830_840 PSU WH	872110330713299	108415703
911401873787	WL140V 14_24_40S/827_830_840 PSU MDU WH	872110330714999	108415704
911401873887	WL140V 14_24_40S/827_830_840 PSR MDU WH	872110330715699	108415705
911401873987	WL140V 40S/827_830_840 PSED WH	872110330716399	108415706
911401874087	WL140V 40S/827_830_840 WIA WH	872110330717099	108415707
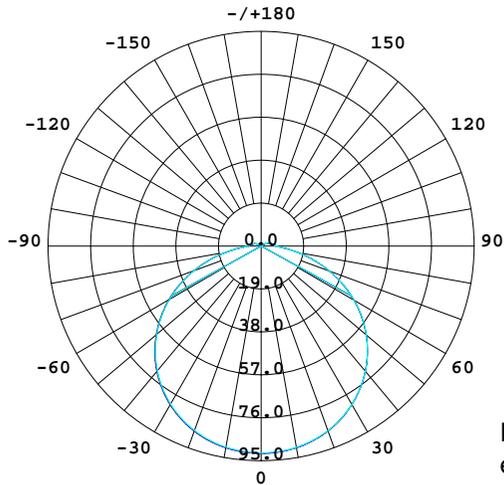
Rated lumen output in emergency mode: min 300lm

Notes: After installing emergency pack, customers shall ensure that in application, the maximum ambient temperature shall be less than 30℃.

Disassemble the lamp board

Rotate the knob to open as shown in the picture。

Remove the light board。

Emergency package schematic diagram

Accessory kit

2PCS-screws

Fixed emergency battery pack

The arrow indicates that the hole indicated by EL KIT is fixed, pay attention to the symbol EL KIT。

EL kit

Wiring Connection Diagram

Blue/Neutral
Brown/Live

LED Driver

LED-
LED+

LED Module

LED+
LED-

Notes:For emergency details, please rfer to the manual provided by the emergency module!

Fixed light board

Place the lamp board onto the lamp body

Rotate and fix the knob

Insert indicator light firmly Position the bracket to the aluminum substrate hole

Insert the indicator light into the fixed bracket

Rotate and fix the knob as shown in the figure