

MDS-P

Motion Detection Sensor

USER MANUAL

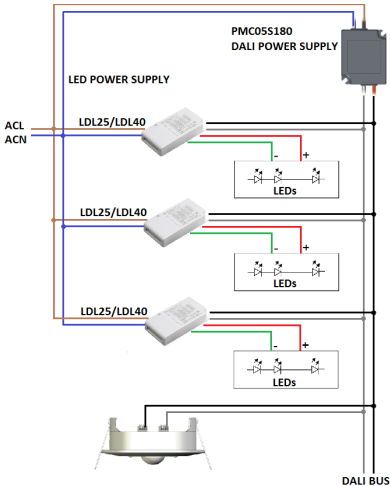


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• Glossary

DALI Bus



DALI requires a pair of wires to form the bus for communication to all devices on a DALI network.

GROUP:

A DALI system contains up to 16 Groups. A group includes one or more lighting devices. Only lighting devices programmed into the specific group are controllable.

BUS:

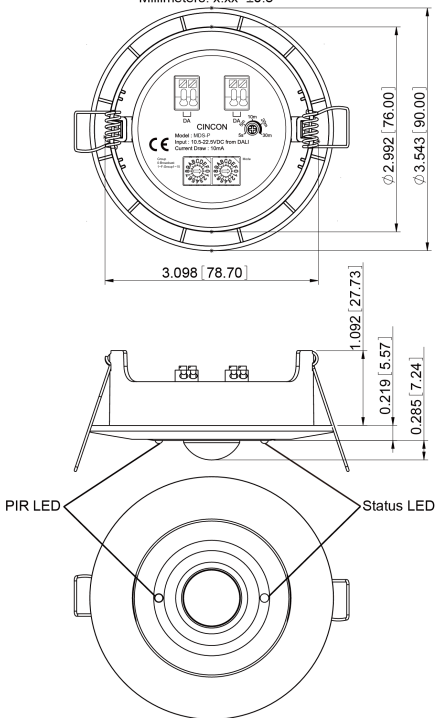
A pair of wires where information is transmitted between the controller and the lighting devices.

• Mechanical Information

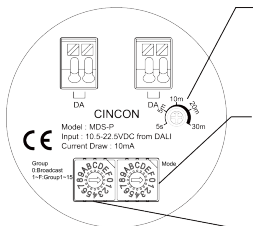
All Dimensions in Inches(mm)

Tolerance Inches:x.xxx=±0.02

Millimeters: x.xx=±0.5



•Control Panel Layout and Functions



* **Time** Delay Time : 5secs~30mins



* **Mode** Illuminance sensor-based

0	ON:100% → MIN: 1% → OFF	B	ON:100% → MIN: 1%
1	ON:100% → MIN: 5% → OFF	9	ON:100% → MIN: 5%
2	ON:100% → MIN:10% → OFF	A	ON:100% → MIN:10%
3	ON:100% → MIN:20% → OFF	B	ON:100% → MIN:20%
4	ON: 70% → MIN: 1% → OFF	C	ON: 70% → MIN: 1%
5	ON: 70% → MIN: 5% → OFF	D	ON: 70% → MIN: 5%
6	ON: 70% → MIN:10% → OFF	E	ON: 70% → MIN:10%
7	ON: 70% → MIN:20% → OFF	F	ON: 70% → MIN:20%

* **Group**

0 : Broadcast ,1~F : Group1~15

Note: 1.Group 1 represents the Group 0 in the DALI standard.
2.A sensor under Broadcast Mode should not be on the same DALI bus with a sensor under Group Mode.

0	1	2	3	4	5	6	7
Broadcast	Group1	Group2	Group3	Group4	Group5	Group6	Group7
8	9	A	B	C	D	E	F
Group8	Group9	Group10	Group11	Group12	Group13	Group14	Group15

Status LED(Blue):

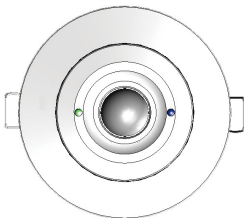
ON: Powered by DALI BUS

OFF: Not being powered

PIR LED(Green):

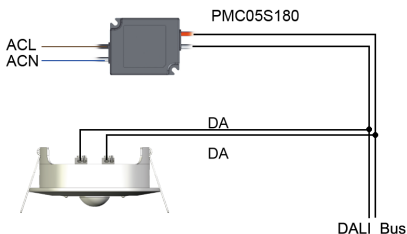
ON: Object Detected

OFF: No Object Detected

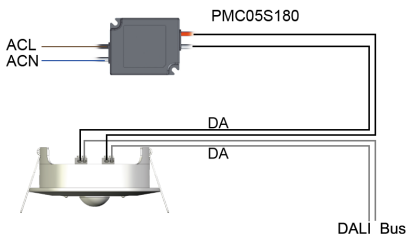


• Powering the MDS-P Controller

A. Powered by any DALI BUS



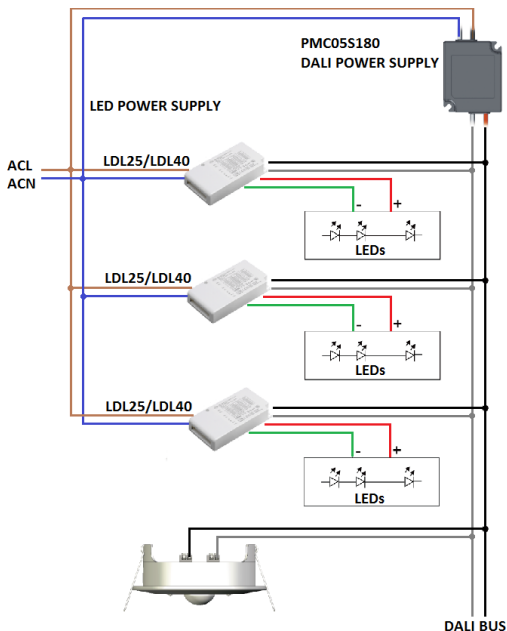
B. Powered by DALI Power and extending DALI BUS



DALI Bus Max. Cable Length and Diameter Table.

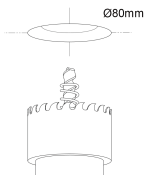
Lead Length	Minimum Lead Diameter
Up to 100 m	0.5mm ² (20AWG)
100~150 m	0.75mm ² (18AWG)
150~300 m	1.5mm ² (16AWG)

● Installation

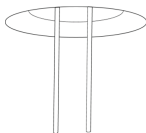


Controller	Max. Current	DRIVER	Max. Current
MDS-P	10mA ea.	LDL25/LDL40	2mA ea.
*PMC05 current output:200mA max.			

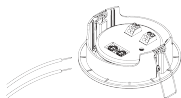
1. Please drill a hole with a diameter of 80mm



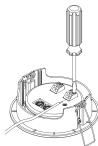
2. Recommended type of cable for DALI: 28~16 AWG / 0,5~1,5 mm²



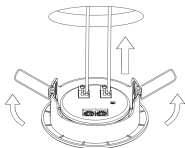
3. Please strip the DALI cable approximately 7mm



4. Use a flathead screwdriver to press on the connector.
Insert the DALI cable to the connector.
(The MDS must not be connected to the mains. It is supplied directly via the DALI signal line.)



5. Please pull the metal spring to install the MDS to the ceiling.

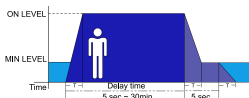
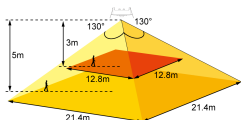


6. Installation finished



• Function details

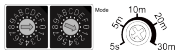
160 m² at 5m ceiling height



T/Fade Time: It's set by user's DALI system configuration)

Example: application 1

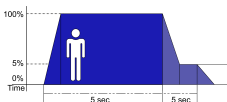
Group
0: Broadcast
1-F: Group1-15



Group is switched to "0": Broadcast

Mode is chosen as to "1": ON:100% → MIN: 5% → OFF

Delay Time : 5sec



Example: application 2

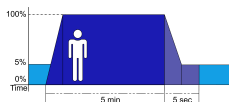
Group
0: Broadcast
1-F: Group1-15



Group is switched to "C": G12

Mode is chosen as to "9": ON:100% → MIN: 5%

Delay Time : 5min



Example: application 3

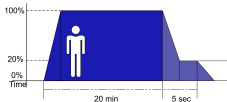
Group
0: Broadcast
1-F: Group1-15



Group is switched to "9": G9

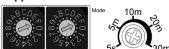
Mode is chosen as to "3": ON:100% → MIN: 20% → OFF

Delay Time : 20min



Example: application 4

Group
0: Broadcast
1-F: Group1-15



Group is switched to "F": G15

Mode is chosen as to "F": ON:70% → MIN: 20%

Delay Time : 30min





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