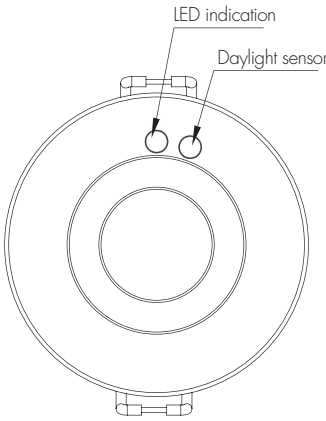
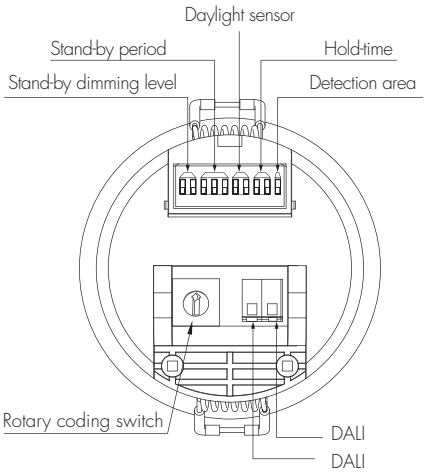
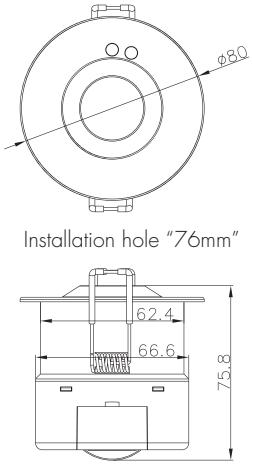
DALI Sensor
Flush Mounting Version

Model: HCD402



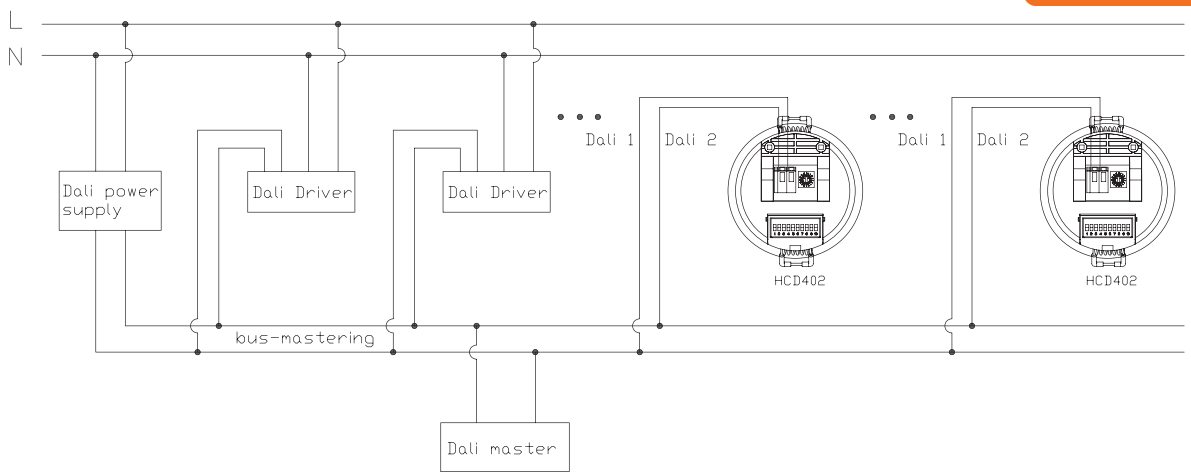




This DALI sensor is designed for incoporated in the DALI system, taking command from the DALI master, accepting and carry out the grouping work with up to 64 lumanaires. It can switch on/off, or dim the assigned group members and feed back the status to the DALI master.

Thanks to the rotary coding switch, it is easy to add this sensor into the existing DALI system, and do the grouping work without the help of DALI master or computer interface.

Wiring Diagram



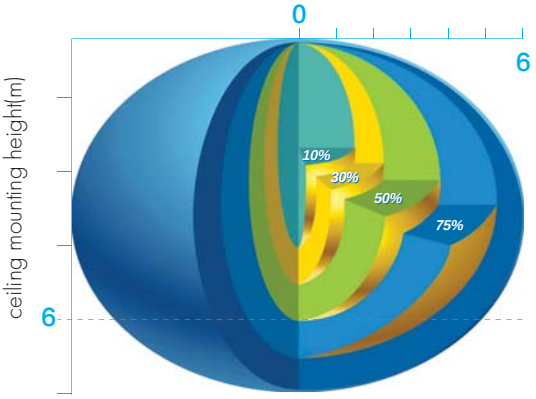
DALI Group Selection

DALI group configuration can be done either on PC, or on the rotary switch:

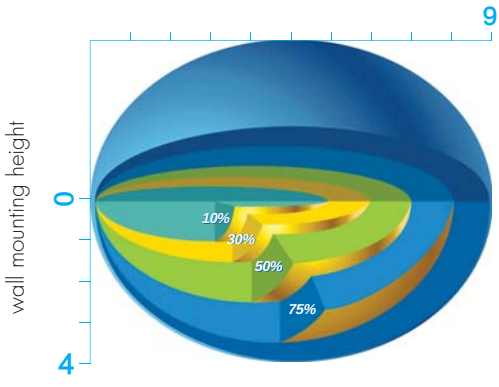
1. There are 16 channels available on the rotary switch. "0" is for DALI broadcast, the rest 15 channels is for end user to define the application unit.
2. PC grouping can overwrite rotary switch grouping, and vise-versa, the last setting stays in validity.
3. The rotary switch channel is corresponding to the groups listed below:

Switch channel	DALI group	Switch channel	DALI group
0	broadcast	8	group 7
1	group 0	9	group 8
2	group 1	A	group 9
3	group 2	B	group 10
4	group 3	C	group 11
5	group 4	D	group 12
6	group 5	E	group 13
7	group 6	F	group 14

Detection Pattern



ceiling mounting pattern (m)



wall mounting pattern (m)

Settings

❶ Detection area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely for each specific application.

	1	
I	●	100 %
II	○	50%

I – 100%
II – 50%

❷ Hold-time

Hold-time means the time period you would like to keep the lamp on 100% after the person has left the detection area.

	2	3	
I	●	●	Test
II	●	○	1min
III	○	●	5min
IV	○	○	20min

I – Test
II – 1min
III – 5min
IV – 20min

❸ Daylight sensor

The daylight threshold can be set on DIP switches, to fit for particular application.

	4	5	
I	●	●	Disable
II	●	○	50Lux
III	○	●	10Lux
IV	○	○	2 Lux

I – Disable
II – 50Lux
III – 10Lux
IV – 2Lux

❹ Stand-by period (corridor function)

This is the time period you would like to keep at the low light output level before it is completely switched off in the long absence of people.

Note: "0s" means on/off control;
"+∞"means bi-level dimming control, fixture never switches off.

	6	7	8	
I	●	●	●	0s
II	●	●	○	10s
III	●	○	○	5min
IV	○	●	●	10min
V	○	●	○	30min
VI	○	○	●	1h
VII	○	○	○	+∞

I – 0s
II – 10s
II – 5min
IV –10min
V – 30min
VI – 1h
VII– +∞

❺ Stand-by dimming level

This is the dimmed low light output level you would like to have after the hold-time in the absence of people.

	9	10	
I	●	●	5%
II	●	○	10%
III	○	●	20%
IV	○	○	50%

I – 5%
II – 10%
III – 20%
IV – 50%

Technical Data

Operating voltage	9.5~22.5VDC (suitable DALI power supply)
Input current	Approx. 10mA
group sellection	16 groups via rotary switch
Detection area	50/100%, can be customized
Hold-time	Test/1min/5min/20min, can be customized
Stand-by period	0s/10s/5min/10min/30min/1h/+∞, can be customized
Stand-by dimming level	5%/10%/20%/50%, can be customized
Daylight threshold	2~50Lux, disable, can be customized
Microwave frequency	5.8GHz+/-75MHz
Microwave power	<0.05mW
Detection range	Max. (ØxH): 12m x 6m
Detection angle	30°~150°
Mounting height	Max.6m
Operating temperature	-35°C ~ +70°C
IP rating	IP20
Certificate	Semko, CB, EMC, CE, R&TTE, SAA