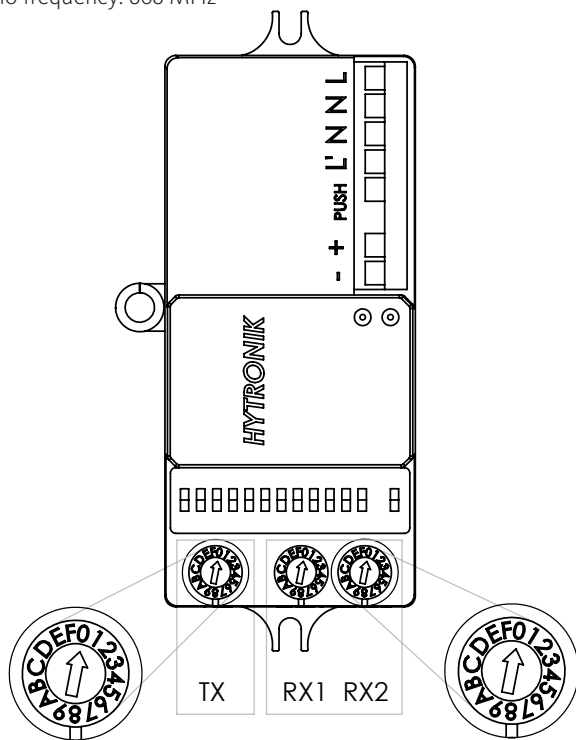


Smart sensor master

Installation manual

Microwave sensor with RF-communication. Rotary switches on the sensor makes it easy to group the luminaires. The sensor has 16 addresses to chose from.

Microwave frequency: 5.8 GHz
Radio frequency: 868 MHz



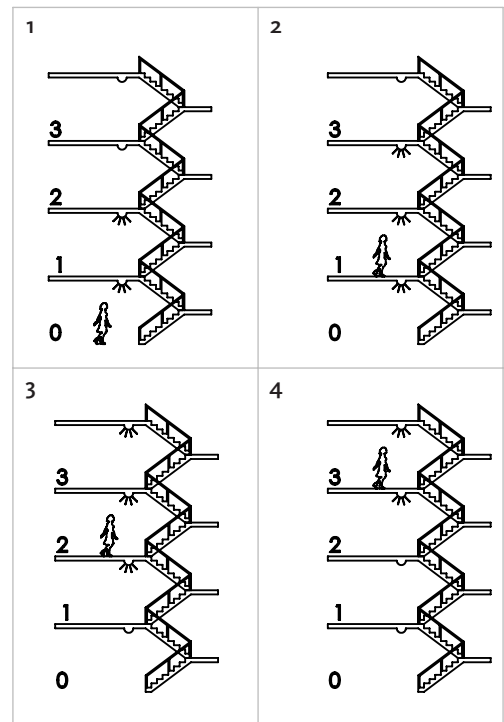
The luminaire acts as both master and slave at the same time. The luminaire has one transmitter address (TX) and two receiver addresses (RX1 och RX2).

At detection the luminaire transmits the TX-address. All the luminaires that have the same receiver address set on RX1 or RX2, will be activated.

FLOOR	TX	RX1	RX2
0	0	1	1
1	1	0	2
2	2	1	3
3	3	2	2

In this example the luminaires have the settings stated in the table.

Example of grouping in a stairwell. Luminaires on adjacent floors will be activated.



Note that the top level and bottom level have only one receiver address.

1: Detection on floor 0. Floor 1 is activated since the luminaire on floor 0 has TX=0 and the luminaire on floor 1 has RX=0

2: The person moves to floor 1. Detection on floor 1. Both floor 0 and 2 are kept activated since both have RX=1.

3: The person moves to floor 2. Detection on floor 2. Both floor 1 and 3 are kept activated since both have RX=2. Floor 0 will be inactivated when the hold time is out.

4: The person moves to floor 3. Detection on floor 3. Floor 2 is kept activated since the luminaire have RX=3. Floor 1 will be inactivated when the hold time is out.

Sensor settings

Detection range and Hold Time can be adjusted to suit the application.

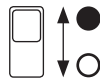
NB. Daylight Threshold, Stand-by period corridor function and Stand-by dimming level are not possible to adjust in this application.

Combinations of DIP switch settings can be found in the tables below.

Detection Range

Sensor sensitivity can be adjusted from 10%-100%.

	1	2	
I	●	●	100%
II*	●	○	75%
III	○	●	50%
IV	○	○	10%



Hold Time

Hold time is the time the luminaire will be activated after the last detection.

	1	2	3	
I	●	●	●	5 sek
II	●	●	○	30 sek
III	●	○	●	1 min
IV*	●	○	○	5 min
V	○	●	●	10 min
VI	○	●	○	20 min
VII	○	○	○	30 min



Daylight threshold

	1	2	
I*	●	●	Disabled
II	●	○	50 lux
III	○	●	10 lux
IV	○	○	2 lux

NB. Not to be changed

Stand-by period corridor function

	1	2	3	
I*	●	●	●	0 sek
II	●	●	○	10 sek
III	●	○	●	1 min
IV	●	○	○	5 min
V	○	●	●	10 min
VI	○	●	○	30 min
VII	○	○	●	1 h
VIII	○	○	○	∞

NB. Not to be changed

Stand-by dimming level

	1	2	
I*	●	●	10 %
II	●	○	20 %
III	○	●	30 %
IV	○	○	50 %

NB. Not to be changed

*Factory settings.

Commissioning

When starting the system up for the first time, the luminaire may dim up and down a couple of times. After 5 minutes the luminaire will be in the right mode for the application.