

## Lighting & HVAC Control System

DOC#  
**ALUXQ21**

Controllers: AluxM6	Slave relays: AluxS1
AluxM7	AluxS2
	AluxS3
	AluxS4

### Function:

Energy saving through the switching off of lighting and HVAC units in un-occupied rooms or areas.

### Configuration 1:

AluxM6 controller with occupancy sensor input

Up to 16 slave relays wired or plugged in at the points to be switched.

Plug and play low voltage wiring connecting the AluxM6 controller to the slave relays.

### Configuration 2:

AluxM7 controller with occupancy sensor input plus one 230V 12A switching output.

Up to 8 slave relays wired or plugged in at the points to be switched.

Plug and play low voltage wiring connecting the AluxM7 controller to the slave relays.

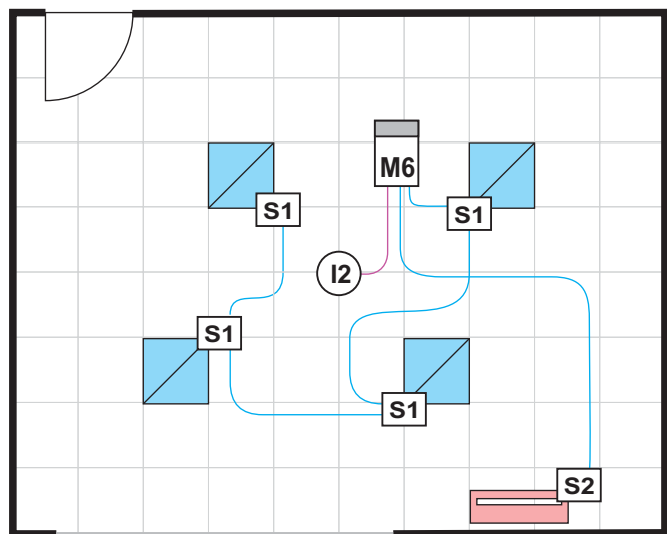
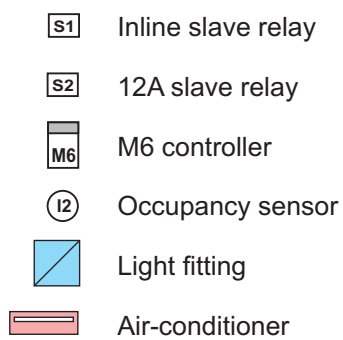
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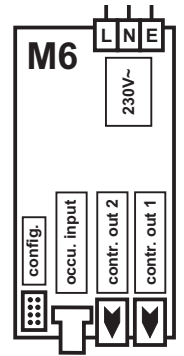
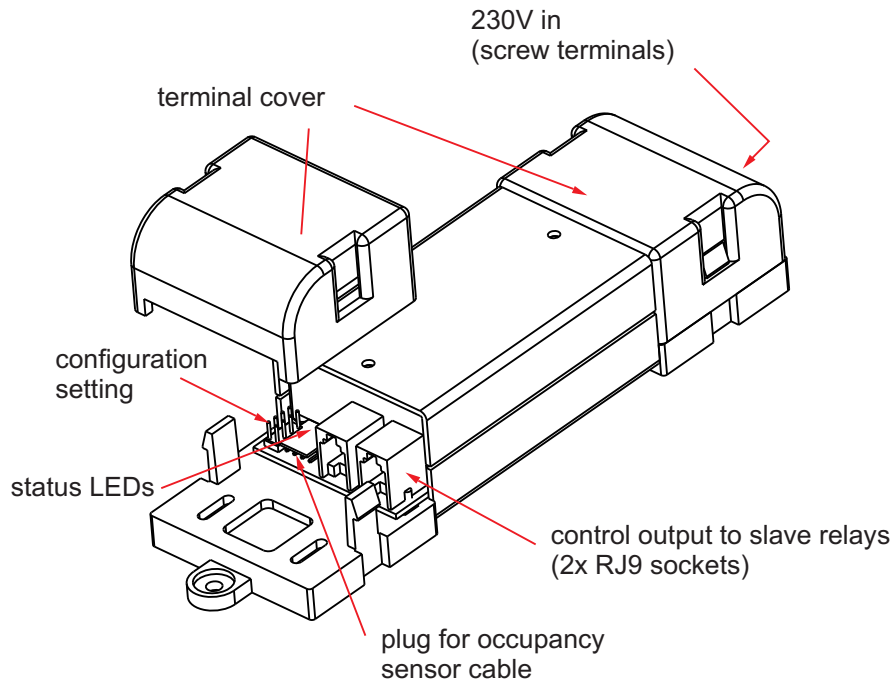
## Typical application

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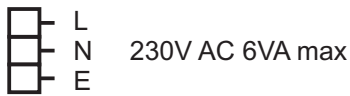


# AluxM6 controller

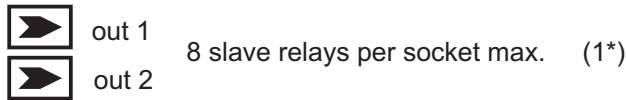
## Design



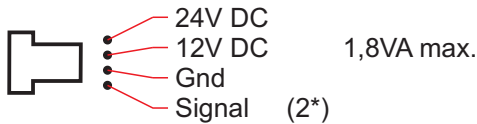
### 230V in



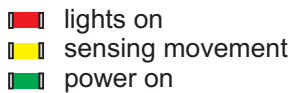
### Control out



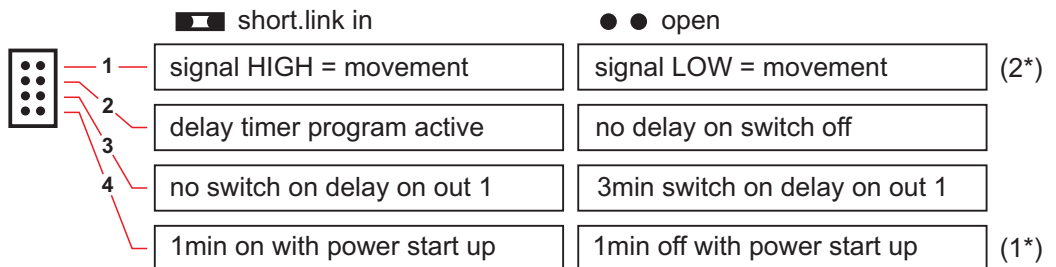
### Occupancy plug



### Status LEDs



### Configuration



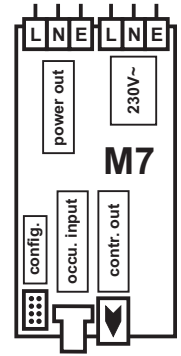
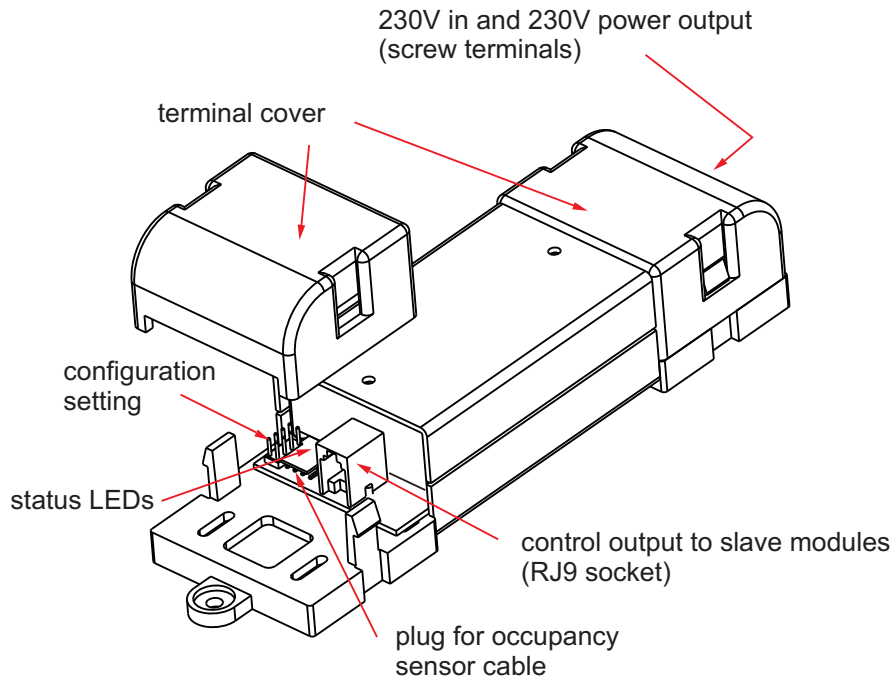
### Note

(1\*) 3min switch on delay available for HVAC switch on protection. (see Configuration settings)

(2\*) Signal in: 24V, 12V or gnd = HIGH / open contact = LOW

# AluxM7

## Design



230V in



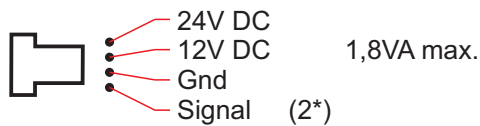
Power output



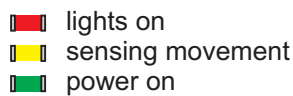
Control out



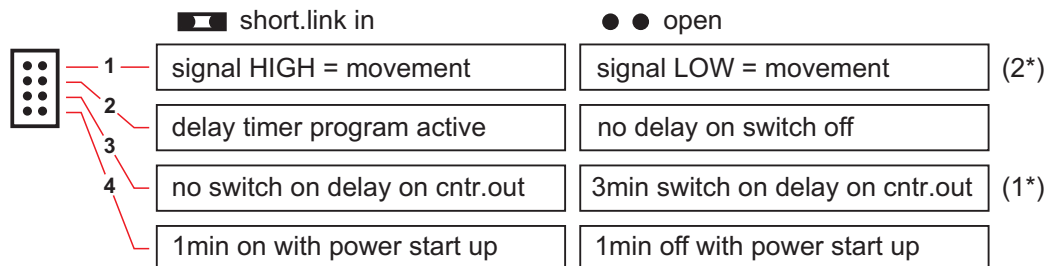
Occupancy input



Status LEDs



Configuration



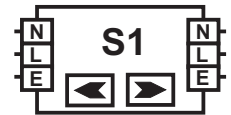
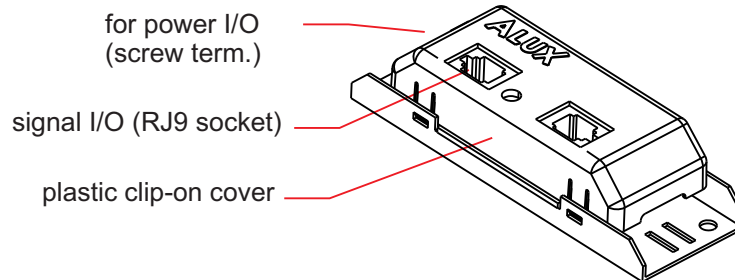
Note

(1\*) 3min switch on delay available for HVAC (compressor) switch on protection.

(2\*) Signal in: 24V, 12V or gnd = HIGH / open contact = LOW

## AluxS1 inline slave relay

### Design:



### Power in / Load



Either side can be load or supply  
(3way screw terminal)

### Control



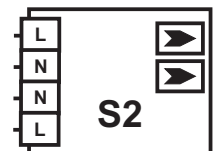
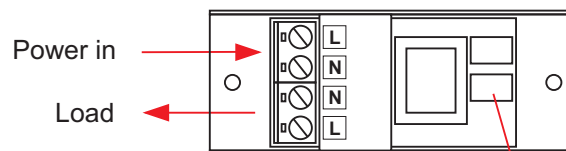
Control signal in or out (RJ9 socket)

### Switching

230V AC 1A free hanging 3A if fixed to a metal surface.

## AluxS2 high current slave relay

### Design



### Power in



Power input  
(2way screw terminal)

signal I/O (RJ9 socket)

### Load



Output to load  
(2way screw terminal)

### Control



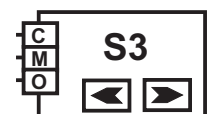
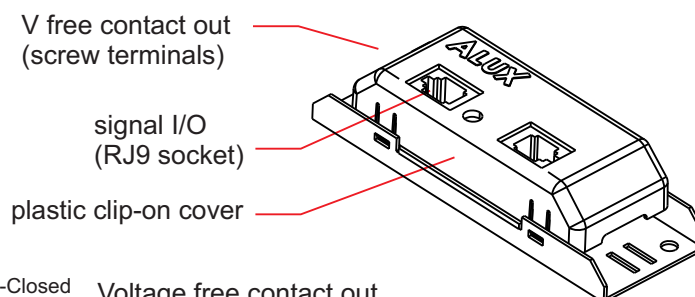
Control signal in or out (RJ9 socket)

### Switching

230V AC 15A max.

## AluxS3 voltage free output slave relay

### Design:



### V free output



N-Closed  
Common  
N-Open Voltage free contact out  
(3way screw terminal)

### Control

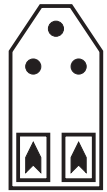


Control in or out (RJ9 socket)

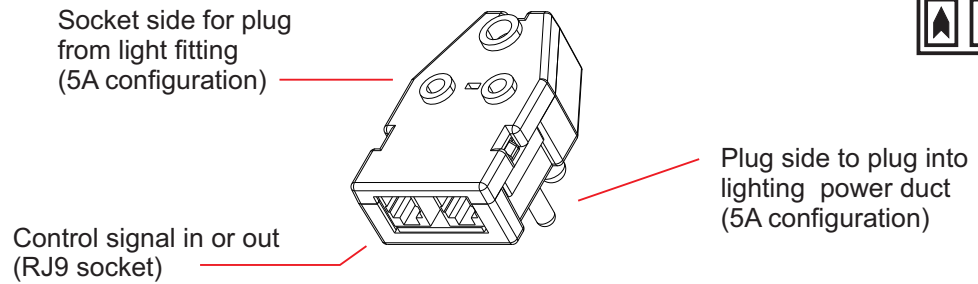
### Contact rating

48V 1Amp max.

## AluxS4 plug socket slave relay



### Design



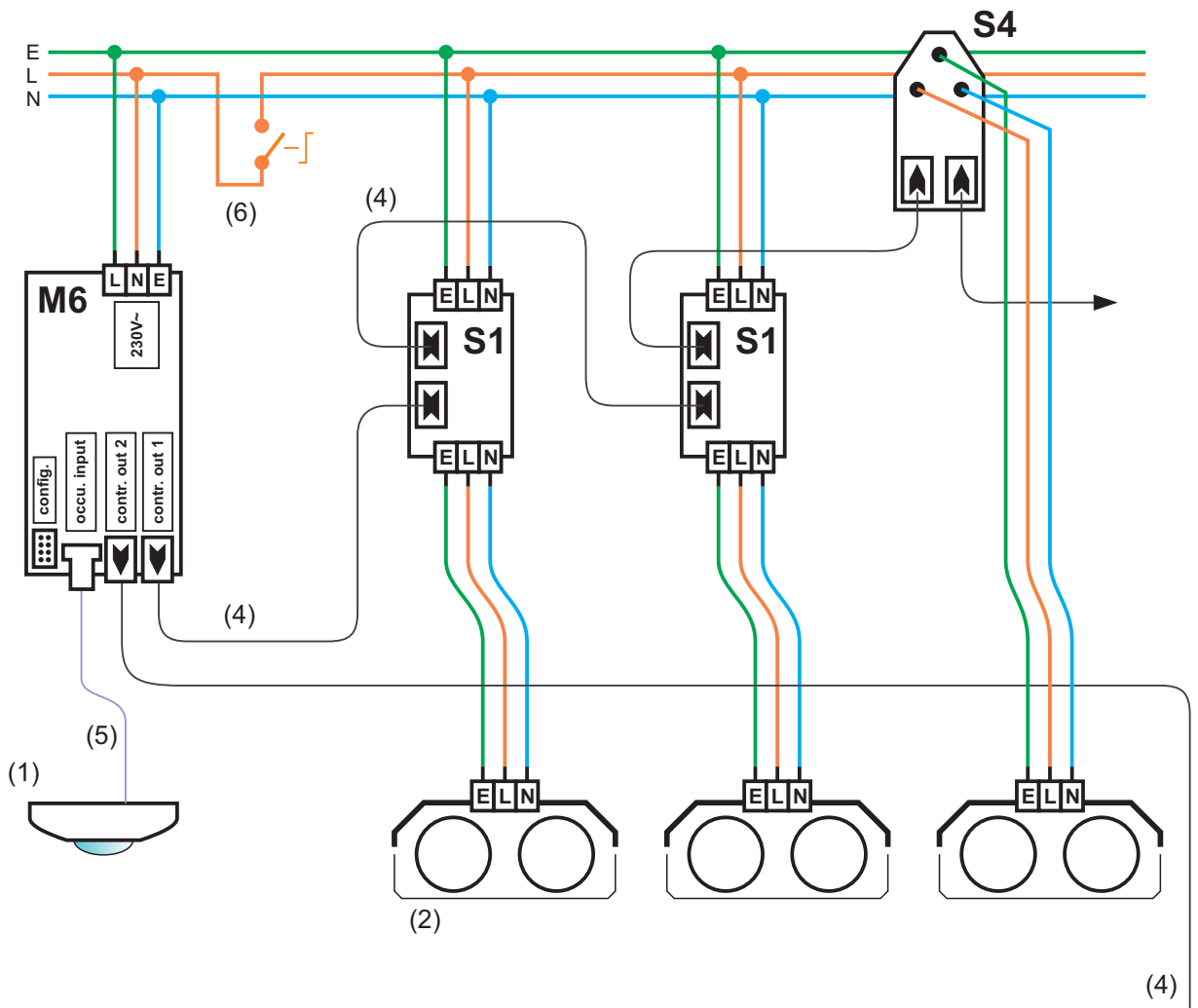
### Switching

230V AC 3A max.

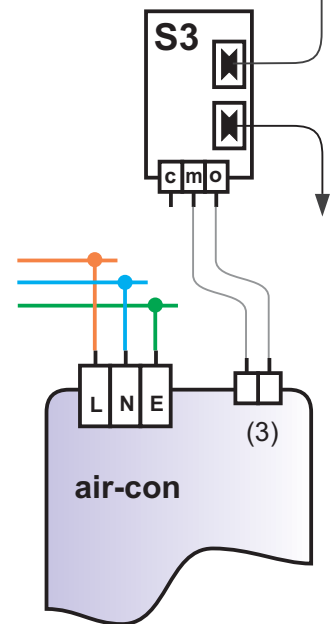
### Product Listing

M6	ALuxM6A10	Controller. Control output to 16 slave relays
M7	ALuxM7A10	Controller. Control output to 8 slave relays + one 12A switching contact
S1	ALuxS1A11	Inline slave relay
S2	ALuxS2A10	High current slave relay
S3	ALuxS3A10	Voltage free output slave relay
S4	ALuxS4A20	Plug-socket slave relay
I2	AluxI2A10	Ceiling mount occupancy sensor 7m diameter sensing area
I3	IS25100TC	Corridor sensor 25 x 2m sensing area
H	ALuxH10	M1/M4 to slave relay & slave relay to slave relay 3m cable
	ALuxH20	M1/M4 to slave relay & slave relay to slave relay 5m cable
	ALuxH30	M1/M4 to slave relay & slave relay to slave relay 8m cable
	ALux3KHA0	M6 / M7 to Suren sensor 2m cable
	ALux3KHB0	M6 / M7 to Hubbel sensor 2m cable
	ALux3KHC0	M6 / M7 to AluxI2 sensor 2m cable

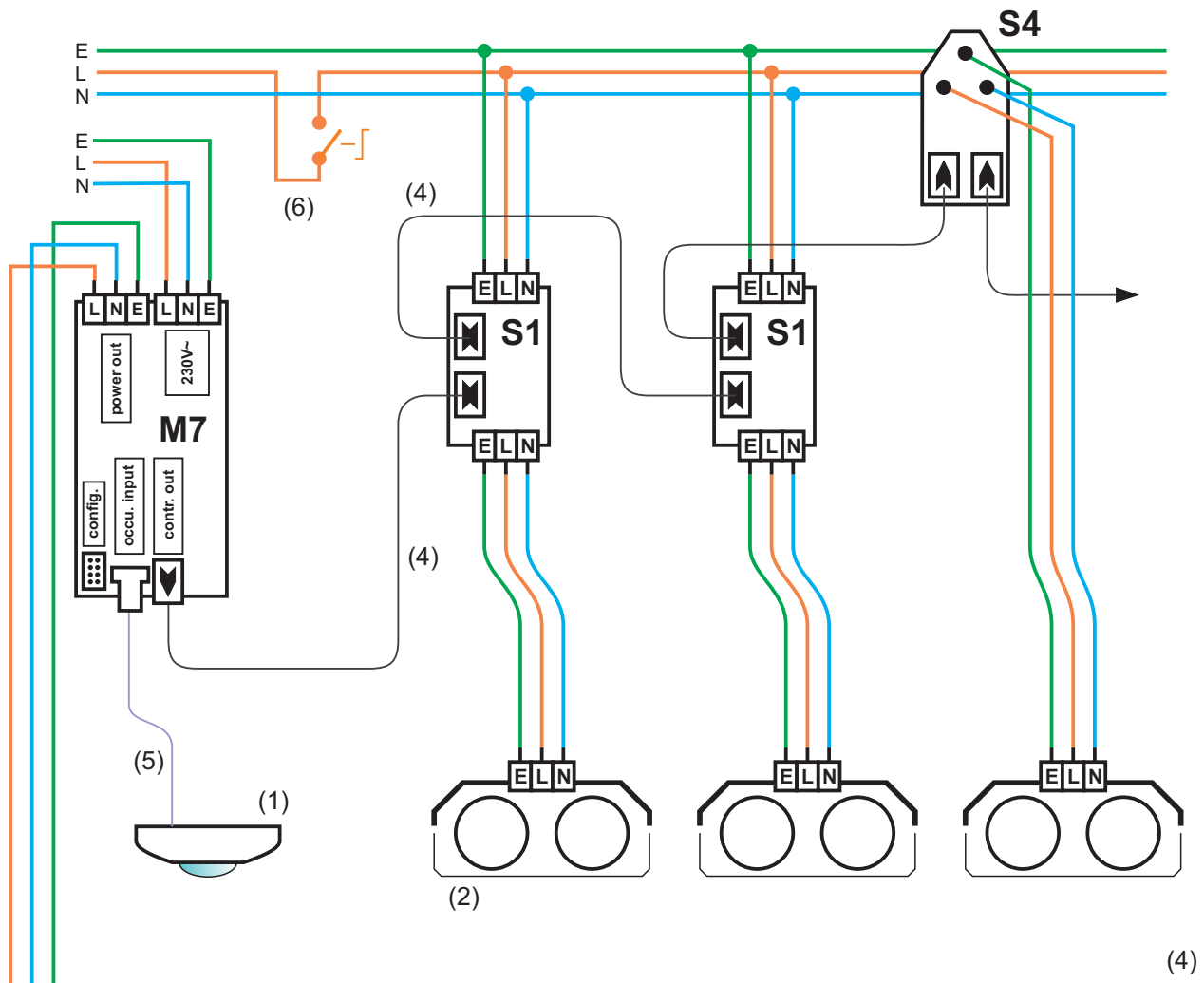
# M6 Master -- wiring example



- M6 Master unit installed above ceiling.
- S1 Inline slave relay installed on or near light fitting.
- S3 HVAC slave relay installed on or near air-conditioner, fan-coil unit or other HVAC unit.
- S4 Plug - socket light slave relay.
- (1) Occupancy sensor.
- (2) Light fitting.
- (3) Occupancy input on HVAC unit. Output from S3 is a change over voltage free contact.
- (4) Signal cable from master to slave units. Telephone cable with RJ9 plugs on both ends. 12V switching signal.
- (5) 3core cable to occupancy sensor. 12V or 24V sensors can be utilized.
- (6) Light switch. (optional)



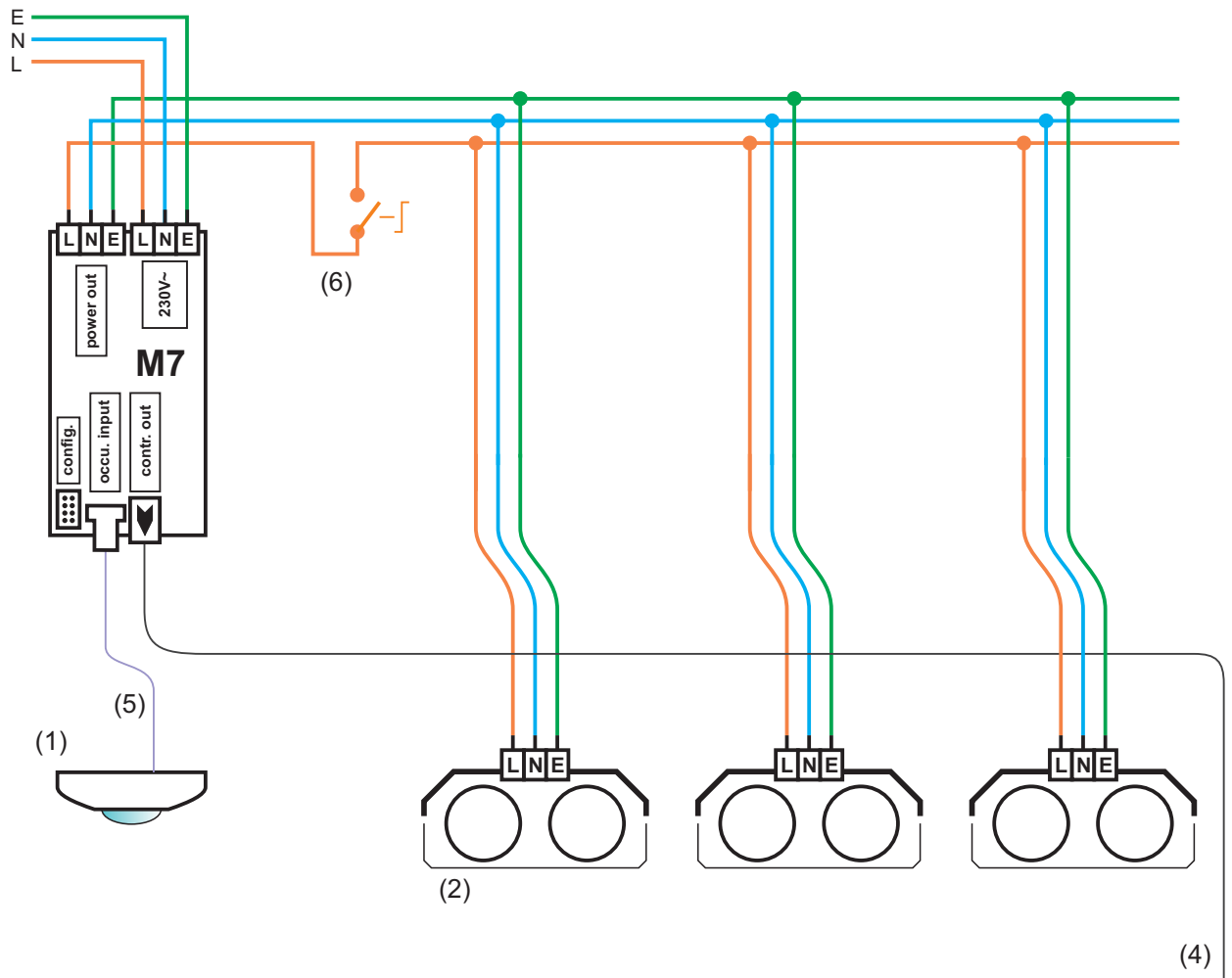
# M7 Master -- wiring example 1



- M7 Master unit installed above ceiling or near air-con.
- S1 Inline slave relay installed on or near light fitting.
- S4 Plug - socket light slave relay.
- (1) Occupancy sensor.
- (2) Light fitting.
- (3) Power to air-con switched by the master unit.
- (4) Signal cable from master to slave units. Telephone cable with RJ9 plugs on both ends. 12V switching signal.
- (5) 3core cable to occupancy sensor. 12V or 24V sensors can be utilized.
- (6) Light switch. (optional)



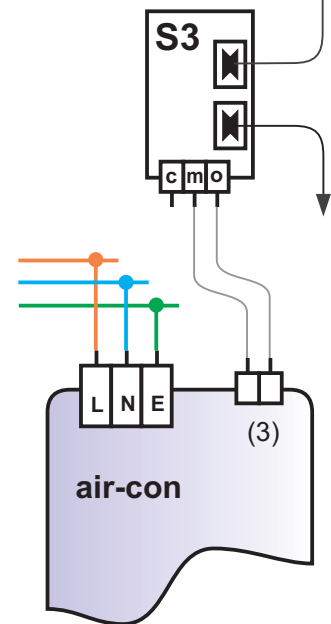
# M7 Master -- wiring example 2



M7 Master unit installed above ceiling.

S3 HVAC slave relay installed on or near air-conditioner, fan-coil unit or other HVAC unit.

- (1) Occupancy sensor.
- (2) Light fitting.
- (3) Occupancy input on HVAC unit. Output from S3 is a change over voltage free contact.
- (4) Signal cable from master to slave units. Telephone cable with RJ9 plugs on both ends. 12V switching signal.
- (5) 3core cable to occupancy sensor. 12V or 24V sensors can be utilized.
- (6) Light switch. (optional)



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