

# TOUCH DIM RC



## Radio receiver module Fitting instructions

### Description

### Purpose and application

The TOUCH DIM RC radio receiver module enables the wireless control of two luminaire groups, each with up to 15 electronic control gears featuring the TOUCH DIM® function.

The radio receiver can be installed in luminaires or, with the optional cable strain relief kit LMS CI BOX, in suspended ceilings.

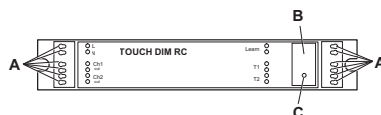
### Function

The radio receiver converts the radio signals from TOUCH DIM WCU wall transmitters or TOUCH DIM RMC hand-held transmitters to TOUCH DIM signals and transmits these to the connected electronic control gears.

### Design

The radio receiver is made up of the following components:

- Connections (A):
  - L, N: power supply
  - Ch 1, Ch 2: floating outputs, e.g. for connecting electronic control gear (channels 1 and 2)
  - Learn: optional pushbutton input for training and untraining wall-mounted/hand-held transmitters
  - T1, T2: optional pushbutton inputs for control via a cable
- „Press to activate learn mode“ button for training/untraining wall-mounted/hand-held transmitters (B)
- LED (C)



### Installation

### Safety instructions

The radio receiver must only be installed and put into operation by a qualified electrician. The applicable safety regulations and accident prevention regulations must be observed.



#### WARNING!

Exposed, live cables.

Danger of electric shock!

- Only work on the radio receiver if it has been de-energised.

#### CAUTION!

Destruction of the radio receiver and other devices due to incorrect installation!

- Adhere to the connection diagram.
- Do not exceed the maximum number of electronic control gears.
- Only use OSRAM electronic control gear or transformers with the TOUCH DIM function.
- Only supply the radio receiver with an AC operating voltage, especially in networks with UPS systems.
- Do not wire pushbutton inputs (learn, T1, T2) with an external voltage, especially not a mains voltage of 230 V.

### Selecting the installation location

Observe the guide values for the radio transmission ranges when selecting an installation location; see „Technical data“. If necessary, perform a range test before installing the unit.

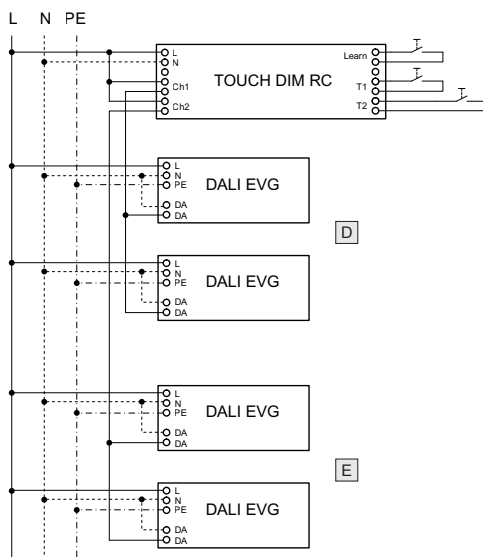
The radio transmission range between the wall-mounted/hand-held transmitter and radio receiver is influenced by the following factors:

- Construction materials
- Type and number of obstacles between the transmitter and receiver
- Sources of interference and signal reflections

### Connecting the radio receiver

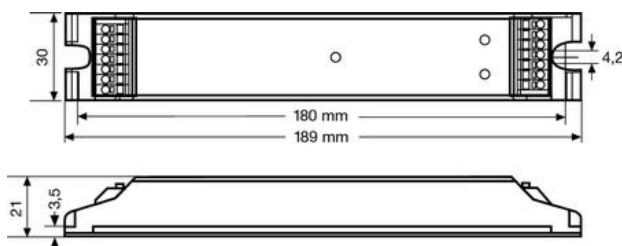
D Luminaire group on channel 1 (Ch 1)

E Luminaire group on channel 2 (Ch 2)



## Technical data

Operating voltage	220-240 V / 50-60 Hz
Current consumption	Approx. 9 mA
Power consumption	Max. 1.5 W
Inputs (learn, T1, T2)	Inputs for floating make contacts
Outputs (Ch 1, Ch 2)	Floating semiconductor relay, max. 45 mA / 240 V
Load capacity of signal output (electronic control gears per output)	Max. 15 QTi DALI ECG or HTi transformers or 15 QT DALI ECG
Max. number of wall-mounted/hand-held transmitters	30
Operating temperature	0 °C ... +50 °C
Frequency band	868.3 MHz
Integrated over-heating protection	Resets independently, not replaceable
Functional range	In the open air: Approx. 300 m Halls: Approx 100 m Passageways and corridors: Approx. 50 m Rooms with wooden or plasterboard walls: Approx. 30 m (max. 7 walls) Rooms with brick or autoclaved aerated concrete walls: Approx. 20 m (max. 3 walls) Rooms with reinforced concrete walls: Approx. 10 m (max. 1 wall)
Protection class	II
Protection type	IP 20
Dimensions (L x W x H)	189 x 30 x 21 mm



## Dimensioned drawing

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Conformity with the relevant EU directives is confirmed by the CE symbol.