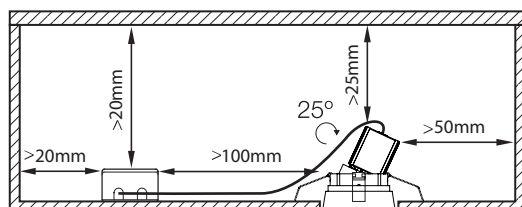
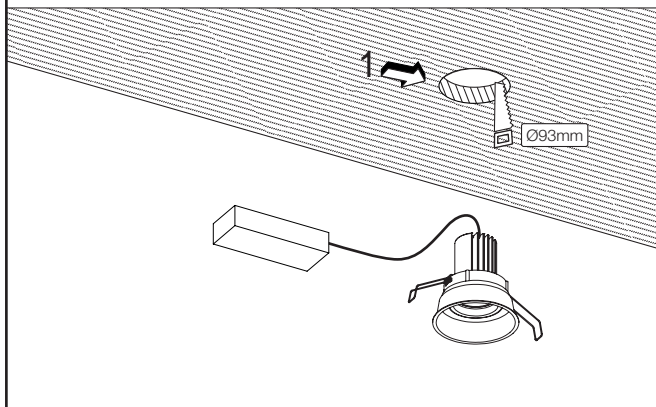
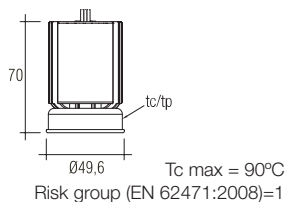


## INSTALLATION INSTRUCTIONS



Minimum distances stated below are recommendations and depend on the actual fixture.



Not suitable for covering with thermally insulating material



## NOTES AND SAFETY INSTRUCTIONS

General safety instructions: information on restrictions related to use of the light fixtures (class, IP, etc.) can be found both on the fixture label and on our website at [www.rovasi.com](http://www.rovasi.com).

The wiring schematics can be found on page 2 of the document.

### Electronic equipment:

**S:** ON / OFF

**A:** 0-10V / 1-10V \*\*

**P:** Phase-cut

**D:** DALI/DSI/switchDIM/corridorFUNCTION

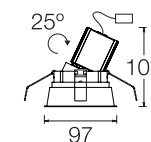
**SE:** ON / OFF + Emergency-Kit [class I]

**AE:** 0-10V / 1-10V + E-Kit [class I] \*\*

**DE:** DALI/DSI/SwitchDIM/corridorFUNCTION+E-Kit [class I]

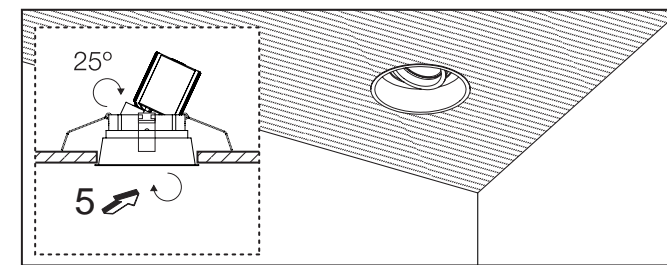
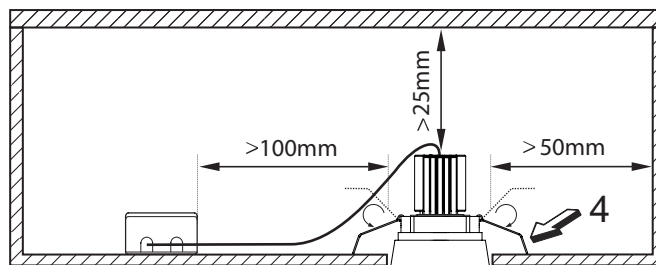
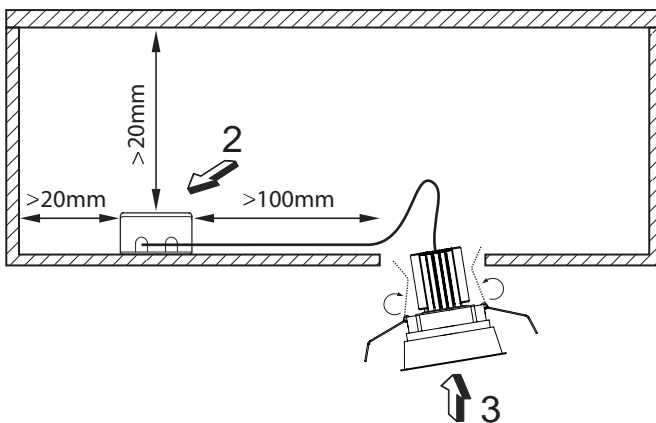
**DDE:** DALI/DSI/SwitchDIM/corridorFUNCTION+E-Kit (DALI) [class I]

\* Add any of the above suffixes after the reference to indicate your electronic equipment choice.



12.2W / 350mA

164BSM-R671  
164BSM-R672  
164BSM-R673  
164BSM-R674  
164BSM-R675  
164BSM-R676



LED technology and performance data are constantly changing. Current details should therefore be checked with ROVASI in order to ensure that it is still the most up to date reference. Updated data will be supplied on request. [14.09.2017]

### Installation instructions. Mains supply wires

- Wiring type and cross section
- Solid wire a cross section of 0,5 -1,5mm<sup>2</sup> . Strip 8,5-9,5 mm of insulation from the cables to ensure perfect operation of terminals.
- Use one wire for each terminal connector only.
- Use each strain relief channel for one cable only.
- Installation may require advice from a qualified person.
- Single lights apt for inner use (no outer)

### Wiring guidelines

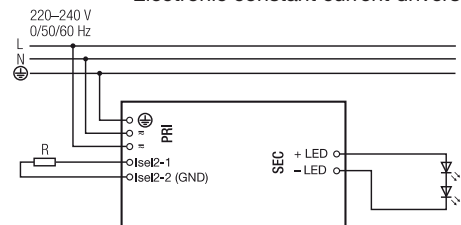
- All connections must be kept as short as possible to ensure good EMI behaviour.
- The cables should be run separately from the mains connections and mains cables to ensure good EMC conditions.
- The LED wiring should be kept as short as possible to ensure good EMC.
- The max. secondary cable length is 2m (4m circuit). Secondary switching is not permitted.
- Incorrect wiring can damage LED modules.
- The LED Driver has no inverse-polarity protection on the secondary side. Wrong polarity can damage led modules with no inverse-polarity protection.

- Earth connection is recommended to improve following behaviour.
- Electromagnetic interferences (EMI)
- Transmission of mains transients to the LED output.

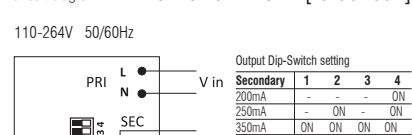


Release of the wiring  
Press down the "push button"  
and remove the cable from front

### Circuit diagram S: ON/OFF Electronic constant current drivers



### Circuit diagram A: \*\* 0-10V / 1-10V<sup>®</sup> [to consult]

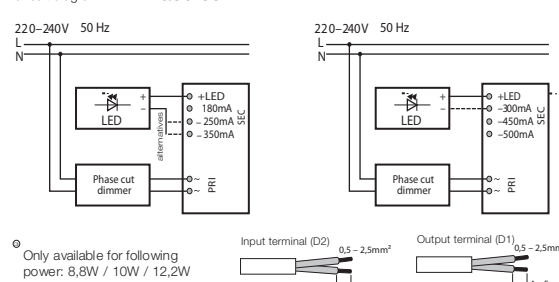


Only available for following power: 6,6W / 8,8W / 12,2W

\*\* Not EAC

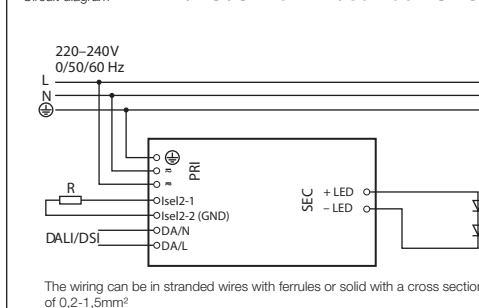
Screwable terminals connection 2,5mm<sup>2</sup>

### Circuit diagram P: Phase cut<sup>®</sup>



Only available for following power: 8,8W / 10W / 12,2W

### Circuit diagram D: DALI/DSI/SwitchDIM/corridorFUNCTION



### Maximum lead length

LED 3m<sup>®</sup>  
Status indication LED 1m  
Batteries 1,3m  
Insulation and electric strength testing of luminaires

Note: The length of LED module must not be exceeded.  
Note that the length of the EM converterLED leads to the LED module will be added to the length of the leads from the control gear to the EM converterLED module when considering the lead length of the control gear.  
Leads should always be kept as short as possible.

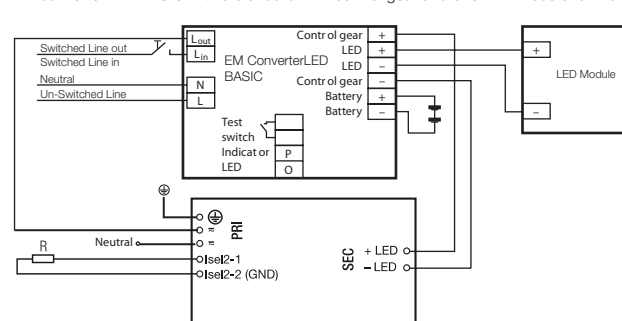
### Wiring guidelines

- The LED terminals, battery, indicator LED and test switch terminals are classified as SELV (output voltage <60V DC).
- Keep the wiring of the input terminals separated from the wiring of the SELV equivalent terminals or consider special wiring (double insulation, 6mm creepage and clearance) when these connections should be kept SELV.
- The output to the LED is DC but has high frequency content, which should be considered for good EMC compliance.
- LED leads should be separated from the mains connections and wiring for good EMC performance.
- Maximum lead length on the LED terminals is 3m. For a good EMC performance keep the LED wiring as short as possible.
- Maximum lead length for the Test switch and indicator LED connection is 1m.
- The test switch and indicator LED wiring should be separated from the LED leads to prevent noise coupling.
- Battery leads are specified with 0,5mm cross section and a length of 1,3m.

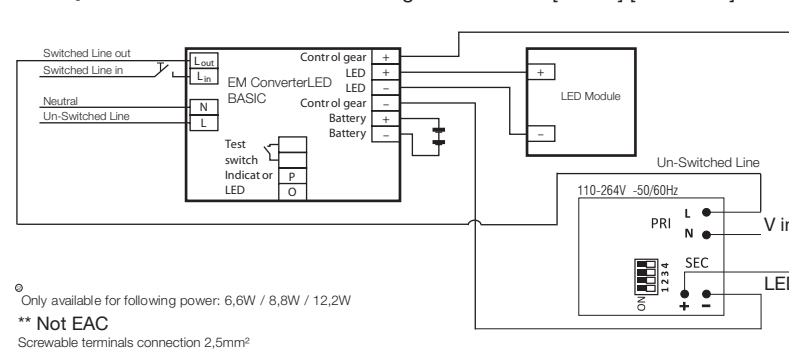
EM: Electromagnetic  
EMC: Electromagnetic Compatibility  
DC: Direct current  
SELV: Safety extra low voltage

### Circuit diagram SE: ON/OFF + E-KIT[class I]

EM converterLED BASIC with a standard LED control gear and one LED module for mains and emergency operation

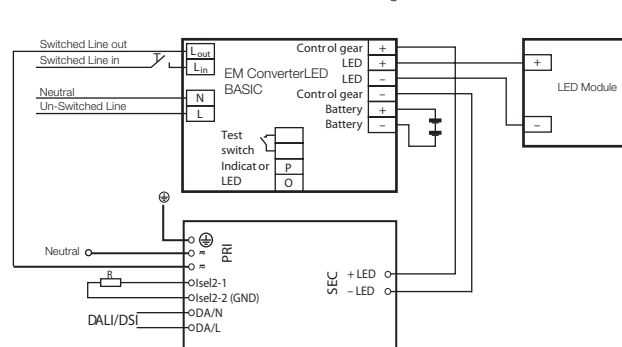


### Circuit diagram AE: \*\* 0-10V / 1-10V<sup>®</sup> Dimming driver + E-KIT[class I] [to consult]



### Circuit diagram DE: DALI Dimming driver + E-KIT[class I]

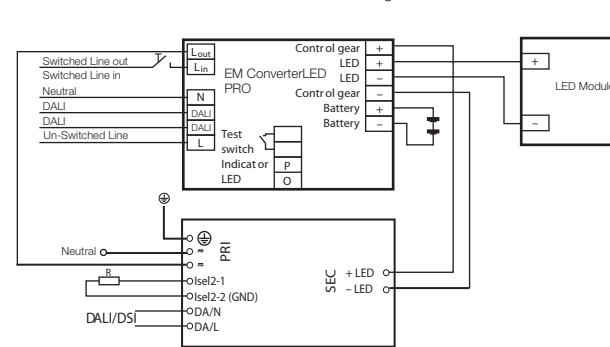
EM converterLED BASIC with a standard LED control gear and one LED module for mains and emergency operation



The wiring can be in stranded wires with ferrules or solid with a cross section of 0,2-1,5mm<sup>2</sup>

### Circuit diagram DDE: DALI Dimming driver + E-KIT(DALI)[class I]

EM converterLED PRO with a standard LED control gear and one LED module for mains and emergency operation



The wiring can be in stranded wires with ferrules or solid with a cross section of 0,2-1,5mm<sup>2</sup>