

# LED drivers - General instructions

High inrush currents can seriously damage electrical components such as circuit breakers, fuses, switches, drivers,...

When connecting luminaires to the grid, the amount of LED drivers connected to one circuit breaker is limited.

See table below:

## Maximum # LED drivers per circuit breaker MCB 16A type B

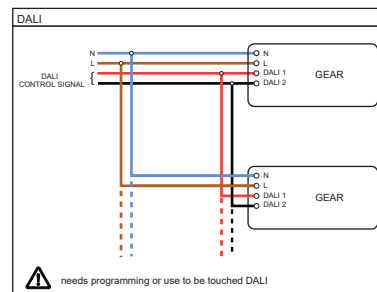
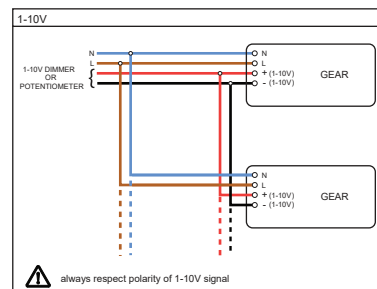
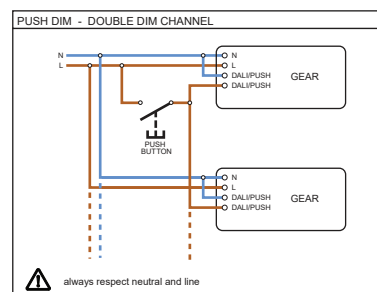
LED linear (Fortimo LEDline)	
non-dimmable	max. 24 drivers
dimmable 1-10V	max. 18 drivers
dimmable PUSH DIM and DALI	max. 24 drivers

LED linear 24V flexible LEDstrip	
0-60W	max. 15 drivers
61-120W	max. 11 drivers
121-150W	max. 3 drivers

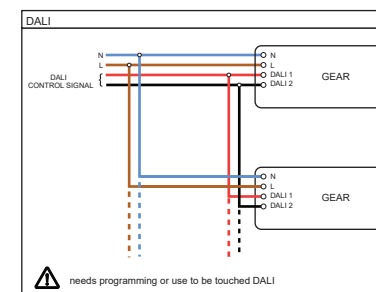
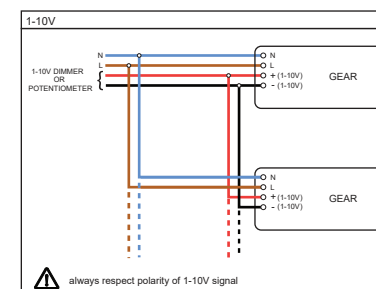
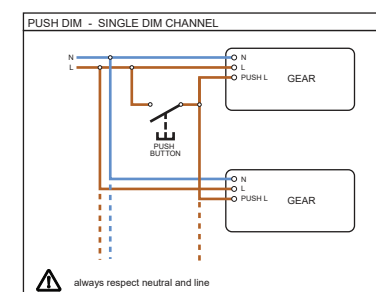
LED spotlight	
non-dimmable	max. 27 drivers
dimmable 1-10V and DALI	max. 15 drivers
dimmable PUSH DIM	max. 8 drivers

Other types of MCB	relative number of ballasts
type B 25A	156%
type B 20A	125%
<b>type B 16A</b>	<b>100%</b>
type B 10A	63%
type C 25A	260%
type C 20A	208%
type C 16A	170%
type C 10A	104%

## Dimming diagrams for LED linear (Fortimo LEDline and 24V flexible LEDstrip)



## Dimming diagrams for LED spotlight



1-10V dimmer installation: all positive (+) and negative (-) ports must be connected to each other  
 DALI: dali wiring may not be longer than 300m total per DALI unit  
 Push Dim: When connecting several appliances to 1 push button, wire the L (live) and N (neutral) in logical sequence and don't mix them up

Always ensure a class 1 appliance is well earthed  
 Ensure the capacity of the switch is appropriate to the number of appliances  
 Don't exceed 50°C as ambient temperature