

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 amount of LED drivers per circuit breaker MCB 16A type B

Drivers for LED linear (Fortimo LEDline)

non-dimmable	max. 24 drivers
dimmable PUSH DIM and DALI	max. 15 drivers

Drivers for LED linear 24V flexible LEDstrip

0-60W	max. 27 drivers
61-100W	max. 19 drivers
101-150W	max. 8 drivers

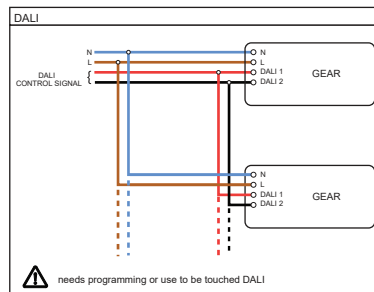
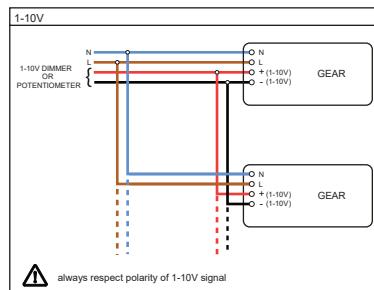
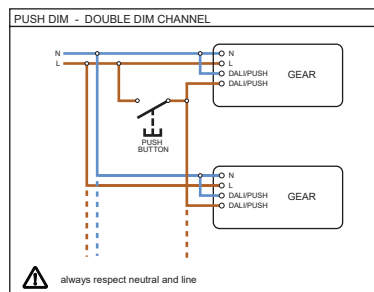
Drivers for LED spotlight (Eyeball, Rektor, MP78 LED and jack luminaires)

All dimming types	max. 27 drivers
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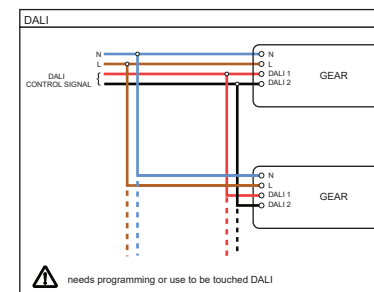
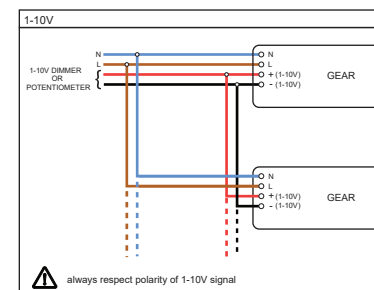
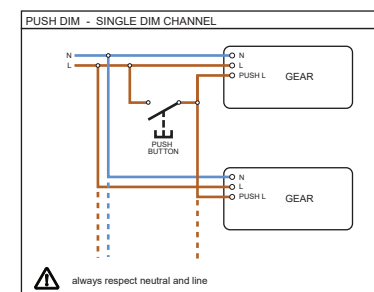
Other types of MCB

Other types of MCB	relative number of drivers
type B 25A	156%
type B 20A	125%
type B 16A	100%
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