Over temperature protection

The LED driver is protected against thermal overload. If the temperature limit is exceeded, the output current is reduced.

Active overload protection

If the maximum output power is exceeded, the LED driver reduces the LED output to a current level within the specifications of the driver. This prevents overload at all times.

Active overcurrent protection

Active overcurrent protection to allow hot swapping of LEDs higher than 6 Watt.

Secondary switching

The L05021 series drivers are designed to switch the LEDs on/off by switching the mains (with the dimmer).

The L05021 series drivers are not designed to switch the LEDs directly on/off in the secondary power line.

Short-circuit protection

In case of a short circuit the LED driver switches to protection mode. After the removal of the short-circuit the LED driver will recover automatically.

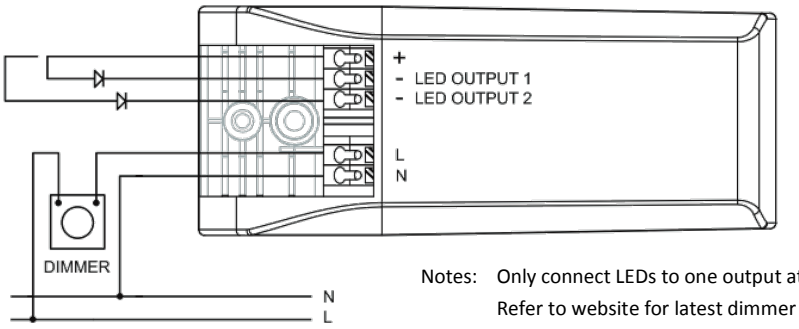
No-load operation

In no-load operation the output voltage will not exceed the specified open circuit output voltage.

LED load

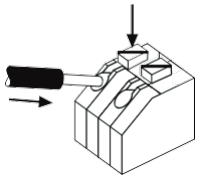
Fulham LumoSeries LED drivers are designed to drive passive LEDs, -COB's and -LED assemblies
Proper function is not guaranteed when (LED)loads with active components are used.

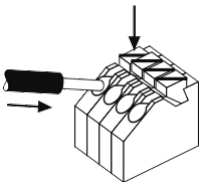
Wiring diagram



Notes: Only connect LEDs to one output at the same time.
Refer to website for latest dimmer compatibility info

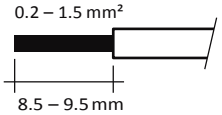
Wiring of device



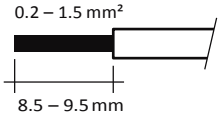


Solid

wire preparation:
0.2 – 1.5 mm²

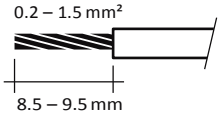


wire preparation:
0.2 – 1.5 mm²

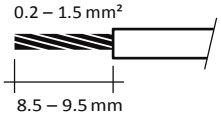


Stranded

wire preparation:
0.2 – 1.5 mm²

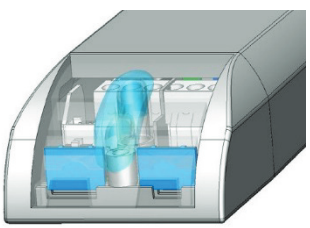


wire preparation:
0.2 – 1.5 mm²



Strain relief

The strain relief inserts can be removed to accommodate wiring of larger diameters.



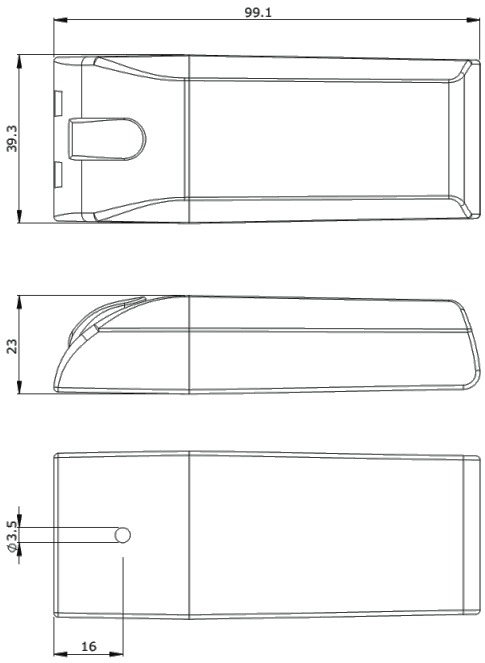
Specific technical data

Type	Efficiency at full load	Output current	Output voltage range	Open circuit output voltage	Max. output power	Nominal line current
L05021	82%	350 or 700mA	3 - 32 Vdc	32Vdc	12W	70mA

Technical data

Rated supply voltage	220-240Vac
Input voltage	220-240Vac
Mains frequency	50/60Hz
Output current tolerance	5%
100 Hz ripple current	100%
Power factor at full load	0.9C
Dimming method	Mains, trailing edge
Startup time	< 0.5 second
Warm up time to 95% of light output	< 1 second
Output isolation	SELV
Surge protection (diff. / comm.)	2 kV / 6kV
IP classification	IP 20
Circuit lifetime	50,000 hrs at Tc max.
Case dimensions	99 x 39 x 23 mm
Case material	Polyamide 6 (PA6)

Dimensions



Inrush current

Mains max. peak inrush at full load	0.192A per driver on phase 60º (average starting angle)* 0.430A per driver on phase 90º (worst case starting angle)* 0.169A per driver on phase 60º (average starting angle)** 0.113A per driver on phase 90º (worst case starting angle)**

** Tested at 240 Vac 1 driver connected, with TTI HA1600A analyzer.
* Tested at 240 Vac 10 drivers parallel connected, with TTI HA1600A analyzer.

Maximum number of drivers on automatic circuit breakers

Automatic circuit breaker type	C10	C13	C16	C20	B10	B13	B16	B20
L05021	127	165	203	253	127	165	203	253
L05021-40250	160	208	256	320	160	208	256	320
L05021-40300	135	176	216	270	135	176	216	270

Thermal specifications

Ambient temperature range (Ta)	-20 to 45 °C
Maximum case temperature (Tc)	< 85 °C
Storage temperature range	-20 to 50 °C