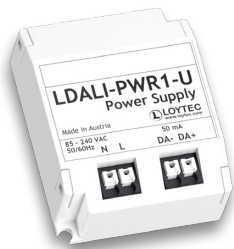


LDALI-PWR1-U

Datasheet #89087901



The LDALI-PWR1-U is a DALI power supply for one channel with a guaranteed supply current of 50 mA (maximum supply current of 62 mA).

It is well suited as supply for small standalone DALI-systems with a limited amount of DALI-components or even for luminaire integration. A typical LOYTEC application is the supply of a DALI subsystem in a BT-mesh ecosystem (e.g. for a room), in which the sensor acts as DALI application controller and gateway to the mesh ecosystem. However, the LDALI-PWR1-U can also be used only to supply the LOYBT-MSx Bluetooth multisensors.

In applications with higher DALI currents up to 4 LDALI-PWR1-U can be used in parallel, resulting in a guaranteed supply current of 200 mA (maximum supply current of 248 mA).

Installation

The DALI channel is treated to be non-SELV (Safety Extra Low Voltage). Therefore the relevant installation regulations for low voltage apply. The cable of a DALI channel is either limited to a maximum length of 300 m using a minimum wire cross-section of 1.5 mm² (AWG15) or must ensure a maximal voltage drop of 2 V.

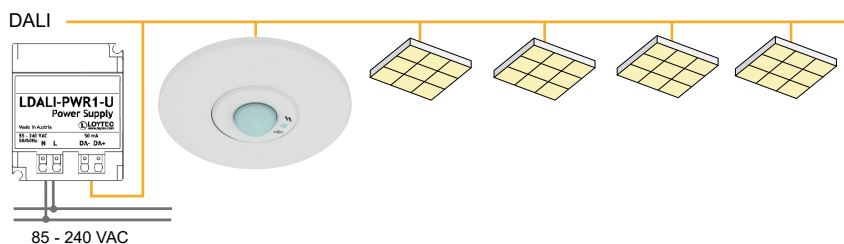
Wide Range Supply Voltage

The power supply accepts a wide range of supply voltage from 85–240 VAC, 50/60 Hz, and also features a starting-current limitation.

DALI Power Output

The DALI power output provides 16 V (11 V – 20.5 V) and 50 mA guaranteed supply current. The power output is isolated from mains by reinforced insulation. The power output is short circuit proof and shuts down if thermally overloaded.

The LDALI-PWR1-U is DALI-2 certified.



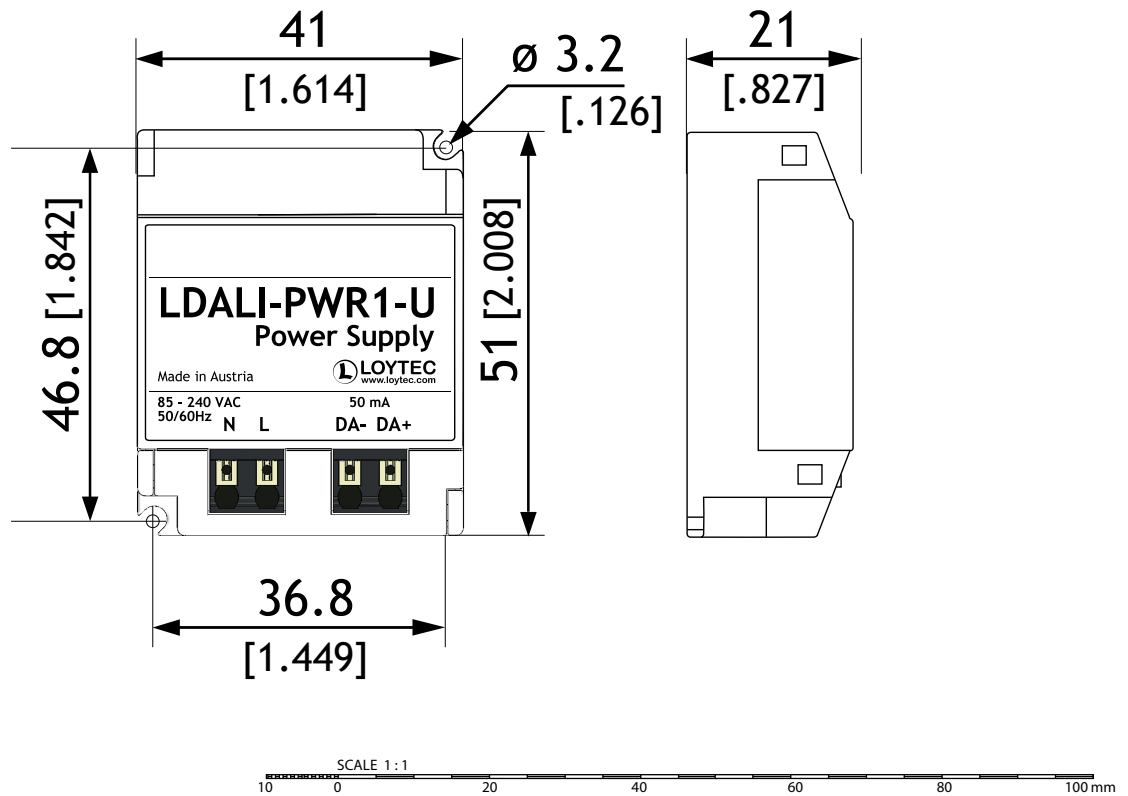
Specifications	
Dimensions (mm)	51 x 41 x 21 (L x W x H), DIM043
Installation	Installation in distribution boxes, mounting in false ceilings or luminaire integration
Power supply	85-240 V AC, 50/60 Hz, current limited startup, max. 1.7 W
Operating conditions	0 °C to 40 °C, 10 – 90 % RH, noncondensing, degree of protection: IP40, IP20 (terminals)
Interfaces	1 x 16 V DC (11 V – 20.5 V), 50 mA guaranteed supply current, 62 mA max. supply current, 30 ms start-up time, short-circuit proof, thermal overheat protection, reinforced insulation (not SELV) to the power line
Certificates	DALI-2

Order number	Product description
LDALI-PWR1-U	DALI power supply unit for 1 DALI channel, 50 mA

Dimensions of the devices in mm and [inch]

DIM043

LDALI-PWR1-U



The products of LOYTEC electronics GmbH are subject to constant development. Therefore, LOYTEC reserves the right to modify technical specifications at any time without prior notice. The most recent datasheet can be downloaded from www.loytec.com.