

Product features

- Lighting Controls and Connectivity DALI-2 components
- DALI-2 connects to two BUS
- Output current 70 mA
- Max. output power 1.12 W
- For luminaires with protection class I,II
- 5 years warranty



Product specifications

160010 ID DALI BUS070 FV1

Typ output current, DALI	Max. output current, DALI	Input Voltage	Typ Output Voltage	Efficiency @ full load	Dimension LxWxH (mm)
70 mA	100 mA	220...240 Vac	16 V	60%	80.7x30x15

Electrical specifications

Mains voltage supply

Rated input voltage range	220...240 Vac
Max. input voltage range	198...264 Vac
Rated frequency range	50/60 Hz
Max. input current	0.03 A @ 230 Vac

Protection against voltage peaks

Withstand voltage	I/p-O/p: 3.75 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV

Output data

Output	DALI
Max.level voltage DC DALI	18.4 V
Min.level voltage DC DALI	13.6 V
Typ.level voltage DC DALI	16 V

Protection functions output side

Short circuit protection	Yes
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Dimming operation and interface

Standby power consumption	0.3 W
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Connection terminals

Connection terminal type	45° push in terminal
Wire cross section	Input and output wire: 0.5...1.5 mm ²
Wire stripping length	8...9 mm

Degree of protection

Protection rating	IP20
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Operating data

Noise level	< 20 dB, at full load @ 100 cm distance
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Supplementary instructions

- The luminaire manufacturer is responsible for measuring and verifying the EMI compliance of the complete luminaire, as the level of radio interference will vary depending on the luminaire construction. Especially primary and secondary cable lengths and their routing may have a significant effect on radio interference.

Protection

- Over current protection: Hiccup mode. Protection device will trigger when load current exceeds specified output current and will auto recover after the fault mode is removed.
- Output short circuit behavior has no delay, retry and restart period of shutdown mechanism, but short circuit proof. The ID DALI BUS070 FV1 keeps working even output is short with limited max.output current.

Additional product data

- ID DALI BUS070 FV1 is developed according to EN 62386-101 Ed.2.1 also known as DALI-2. ID DALI BUS070 FV1 is a power supply, rated at 16 V DC and providing 70 mA. With the provided 70 mA current up to 35 DALI loads can be connected. Standard DALI loads are specified to consume max. 2 mA. Some DALI control devices may consume more than 2 mA (e.g. MSensor G3). If such devices are connected to the ID DALI BUS070 FV1 the amount of possible connected devices will be reduced. This has to be considered during the application design.
- This DALI Bus power Supply is not allowed to be connected with other DALI Bus power supplies on the same line.
- Compact form factor combined with detachable mounting flaps allowing high installation flexibility, e.g. in luminaire or behind wall sockets or switches.

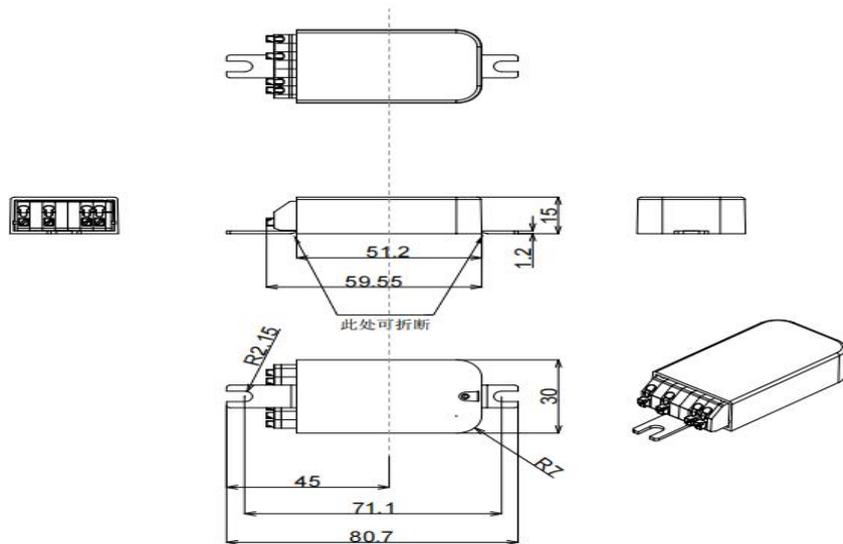
Dimensions

Housing dimensions

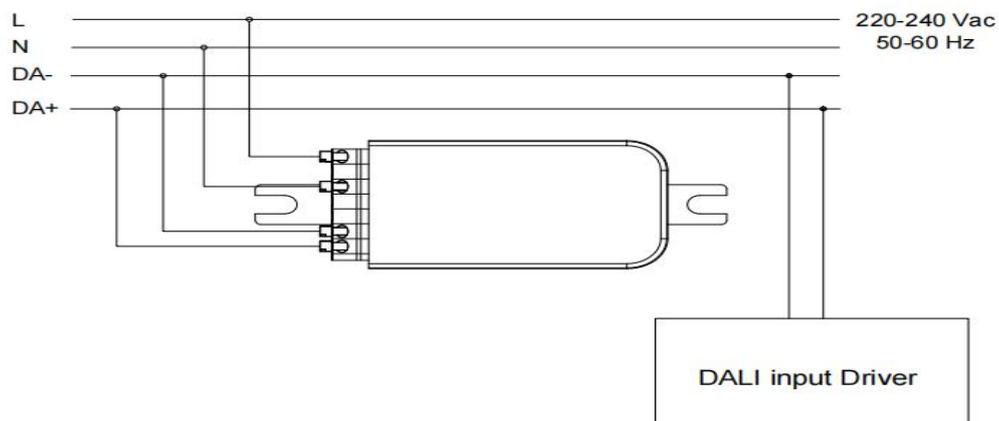
Length (L)	80.7 mm
Width (W)	30 mm
Height (H)	15 mm
Weight	0.021 kg

Packaging details

Packing units	234 pcs
Carton size	300 x 243 x 219 mm
Weight	5.57 kg

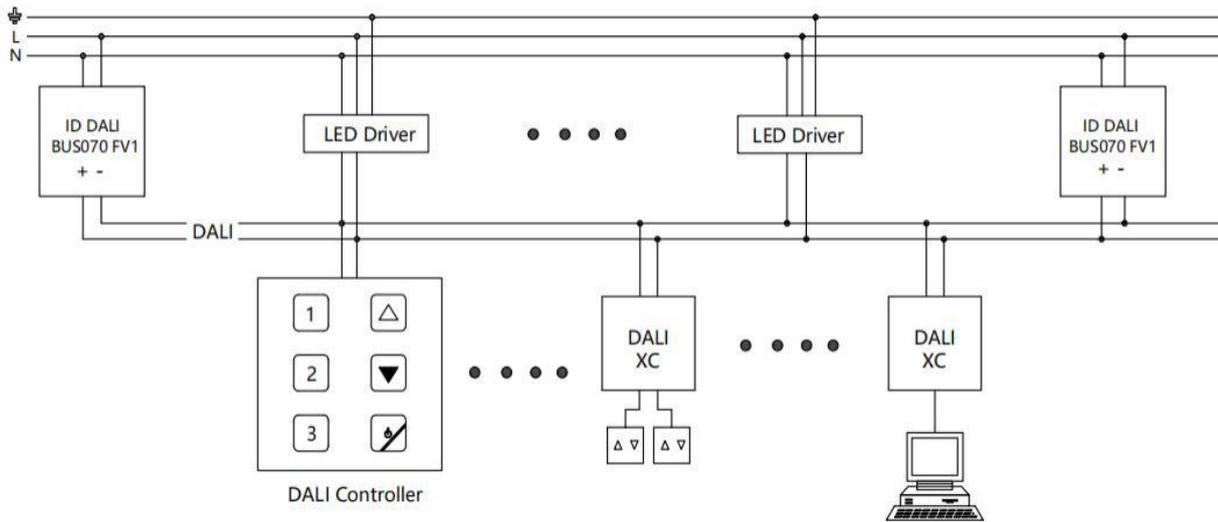


Wiring diagram



- All connections must be as short as possible to ensure good EMI performance.
- Incorrect wiring can damage BUS.
- The wire must be well protected against short circuit.

Installation



Matters need attention

- Up to 2 ID DALI BUS070 FV1 can be connected in parallel to provide up to 140 mA.
- Additional ID DALI BUS070 FV1 must be connected in parallel and the polarity has to be considered. Do not connect more than 2 ID DALI BUS070 FV1 in one installation. This may cause damage to the device and all other devices connected to the control wires.
- DALI signals are not SELV. Therefore the same procedures should be applied as working with mains voltage.
- The DALI signal wires must not drop more than 2 V.