Product description

- Device to enhance the maximum DALI cable length from 300m up to 600m.

- Enhancement and Transmission of the DALI-signals (bidirectional).

- Galvanic separation between DALI circuits.

- Either radially arranged network layout or cascaded system mounting operated with single master.

- cascading (Series wiring) of up to 3 repeaters

- The maximum amount of DALI-devices in the total network is limited to 64, the devices can be divided on the sub-circuits freely.

- Type with integrated power supply available

- Repeater PS: Test button for simple function check of all DALI bus ballasts.

Technical information

input: L, N

input type	supply, mains- voltage
marking terminals	L, N
input voltage range	120Vac … 240Vac +/- 15%
max. input supply current	40mA (@120Vac), 20mA (@240Vac)
input supply frequency	50Hz / 60Hz
max. power consumption	5,3W
startup time	250ms

input: DA, DA

input type	DALI control input
marking terminals	DA, DA
input voltage range	9,5V … 22,5V
current consumption DALI	2mA

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output: DA+, DA-

output type	DALI / DALI supply
marking terminals	DA+, DA-
input voltage range	12Vdc … 20,5Vdc

guaranteed DALI supply current	200mA
open circuit proof	yes
short circuit proof	yes

insulation data:

impulse voltage category	II
pollution degree	2
rated insulation voltage	250V
insulation DALI-input / DALI output(DA+, DA-) DALI-input / supply (L,N)	reinforced isolation
insulation test voltage DALI-output/mains	3000Vac

environmental conditions:

storing and transportation temperature	-20°C … +75°C
operational ambient temperature	-20°C … +60°C
rel. humidity, none condensing	15% … 90%

general data:

dimensions (l x w x h)	120mm x 41mm x 22mm
mounting	remote ceiling integration in class II devices
rated max. temperature tc	70°C
expected life time @tc	50,000 h
protection class	II in intended use
protection degree housing	IP40
protection degree terminals	IP20

terminals:

connection type	spring terminal connector
wire size solid core	0,5 … 1,5 mm^2 (AWG20 … AWG16)
wire size stranded wired	0,5 … 1,5 mm^2 (AWG20 … AWG16)
wire size using wire end ferrule	0,25 … 1 mm ^{2}
stripping length	8.5 … 9,5 mm / 0,33 … 0,37 inch
locking torque	-
release of wire	push buttom

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standards:

DALI	EN 62386-101
EMC	EN 61547 EN 50015 / IEC CISPR15
safety	EN 61347-2-11 EN 61347-1
markings	CE

DALI Repeater PS
dimensions remote ceiling

Wiring diagram

Figure shows a typical application to extend the wiring length of the DALI installation. Cascading of up to 3 repeaters is possible (multi-master operation over several sections possibly restricted). The wiring must be carried out in the corresponding cable cross-section.

application example: increase wiring length

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