DALI components

TRIDONIC

DALI repeater

DALI interface



Product description

- _ For amplifying the DALI signal
- _ For extending the DALI line length from 300 to 600 m
- _ A star-type network with multiple DALI repeater's can be set up
- _ Power supply via DALI line
- _ For installation in switching cabinets
- _ 5 years guarantee (conditions at
- https://www.tridonic.com/manufacturer-guarantee-conditions)

Note

- _ Because of the signal delay it is not possible to connect multiple DALI repeaters in series (no cascading)
- _ There is no increase in the maximum number of DALI units. A maximum of 64 DALI addresses can be configured in a DALI circuit (main and subordinate circuit)
- Because of the electrical isolation between the main circuit and the subordinate circuit an additional DALI power supply unit is needed for each DALI repeater

Website

http://www.tridonic.com/86458401



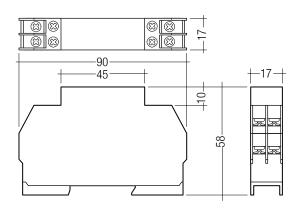
Lighting Controls and Connectivity

DALI components

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Ordering data

Ordering data	A	De altre altre autoren	M/- 1-1-4
Туре	Article number	Packaging, carton	Weight per pc.
DALI Repeater	86458401	1 pc(s).	0.077 kg

Technical data

DALI cable
9.5 – 22.5 V
6 mA from DALI
4 mA from DALI
≤ 2 s
DALI
DALI
0 +50 °C
-20 +70 °C
Polyamide
IP20
II
up to 50,000 h
5 Year(s)

Approval marks



Standards

EN 55015, EN 61547, EN 61347-2-11, EN 61347-1

① Uin acc. IEC 62386-101.

Lighting Controls and Connectivity

DALI components

1. Standards

EN 55015 EN 61547 EN 61347-2-11 EN 61347-1

1.1 DALI note

Device is designed to be used in DALI installation and supports DALI standards. EN 60929 (DALI-0) EN 62386 (DALI-1) EN 62386-101 Ed.2 (DALI-2)

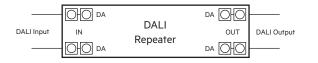
2. Common

- The DALI Repeater extends the maximum DALI control line from 300 to 600 m.
- The repeater amplifies the DALI signal.
- Electrical insulation between the main control circuit and the subordinate control circuit.
- In Single-Master applications star networks with multiple repeaters can be set up.

3. Installation

- Because of the signal delay it is not possible to connect DALI repeaters in series (no cascading) see note relating to the wiring diagram.
- There is no increase in the maximum number of DALI units. A maximum of 64 DALI addresses are possible in one DALI circuit (main and subordinate circuit).
- The distribution of the DALI units is optional.
- Particular notice has to be taken of the not allowed cascading, if more than one DALI control is connected to the DALI circuit.
- An additional DALI PS/PS1 is needed for each subordinate circuit.
- The DALI signal is not SELV. The installation instructions for low voltage therefore apply.
- The length of the DALI control line after the DALI repeater must not exceed 300 m (for a cable cross-section of 1.5 mm²) or the drop in voltage must not exceed 2 V.

3.1 Connection diagram

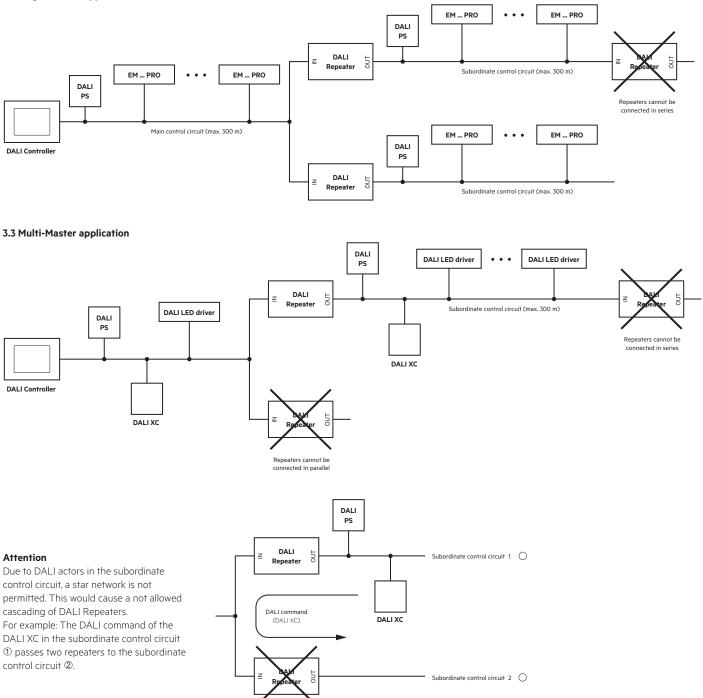


Wire size for solid wire	0.05 – 2.5 mm² (AWG20 – AWG14)	
Wire size for stranded wire	0.05 – 2.5 mm² (AWG20 – AWG14)	
Wire size using wire end ferrule	0.25 – 1.5 mm²	
Stripping length	7 mm / 0.27 inch	
Locking torque	0.5 Nm	
Release of wire	Open screw	

Lighting Controls and Connectivity

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3.2 Single-Master application



4. Miscellaneous

4.1 Disposal



According to the WEEE directive return old equipment at appropriate collection facilities.

4.2 Additional information

Additional technical information at <u>www.tridonic.com</u> \rightarrow Technical Data

Guarantee conditions at <u>www.tridonic.com</u> \rightarrow Services

Lifetime declarations are informative and represent no warranty claim. No warranty if device was opened.