

DALI repeater

Extension of DALI cable length

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-year guarantee

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



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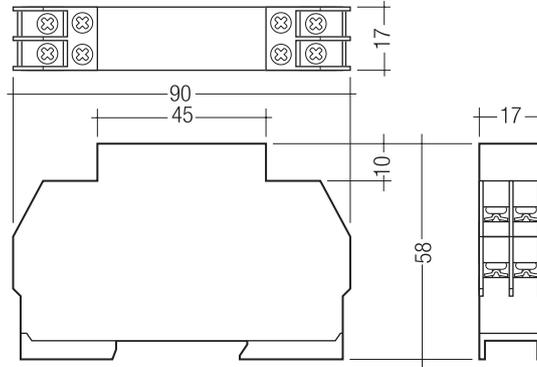


DALI repeater

Extension of DALI cable length

Technical data

Supply via	DALI cable
Current draw for main control circuit (IN)	6 mA from DALI
Current draw for subordinate control circuit (OUT)	4 mA from DALI
Input	DALI
Output	DALI
Operating temperature	0 ... +50 °C
Storage temperature ts	-20 ... +70 °C
Type of protection	IP20



Ordering data

Type	Article number	Packaging, carton
DALI Repeater	86458401	1 pc(s).

Standards

EN 55015: 2000
EN 55011/1998 + A1/1999
EN 61547: 1995 + A1: 2000
EN 61000-6-2/2001
EN 61000-3-2/2000
EN 61000-3-3/1995 + A1/2001
EN 60730

Glow-wire test

according to EN 60598-1 passed.

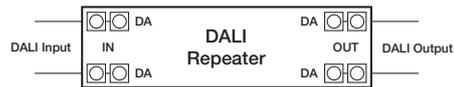
DALI standard

The DALI Repeater is designed to control control gear with DALI standard IEC 60929 (DALI V0) and IEC 62386 (DALI V1).

- With the DALI Repeater the maximum wire length of the DALI control line can be extended from 300 m to 600 m
 - The repeater amplifies the DALI signal
 - Electrical isolation between the main control circuit and the subordinate control circuit
 - In Single-Master applications star networks with multiple repeaters can be set up (e.g. to optimise the use of e-touchBOX)
- configured in a DALI circuit (main and subordinate circuit).
 - There is no restriction on how the DALI units are distributed
 - 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.

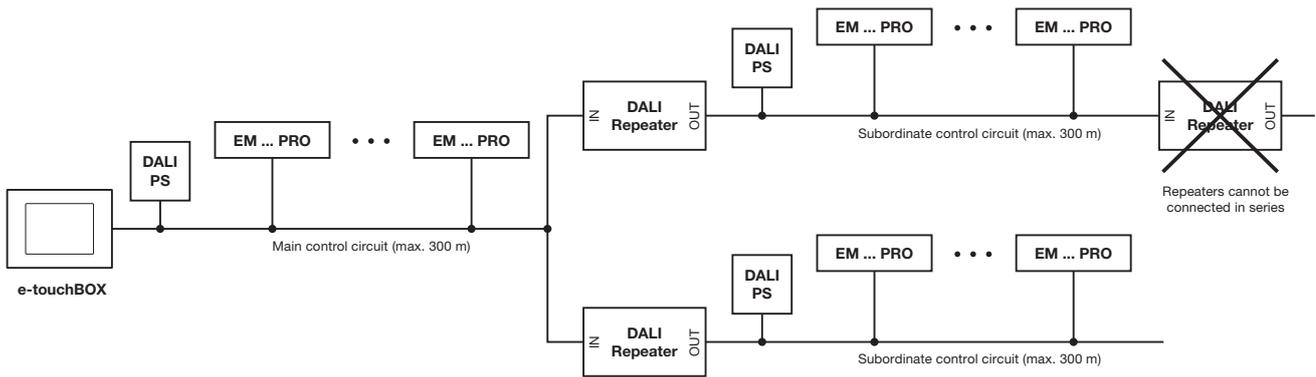
Installation

- 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 units can be

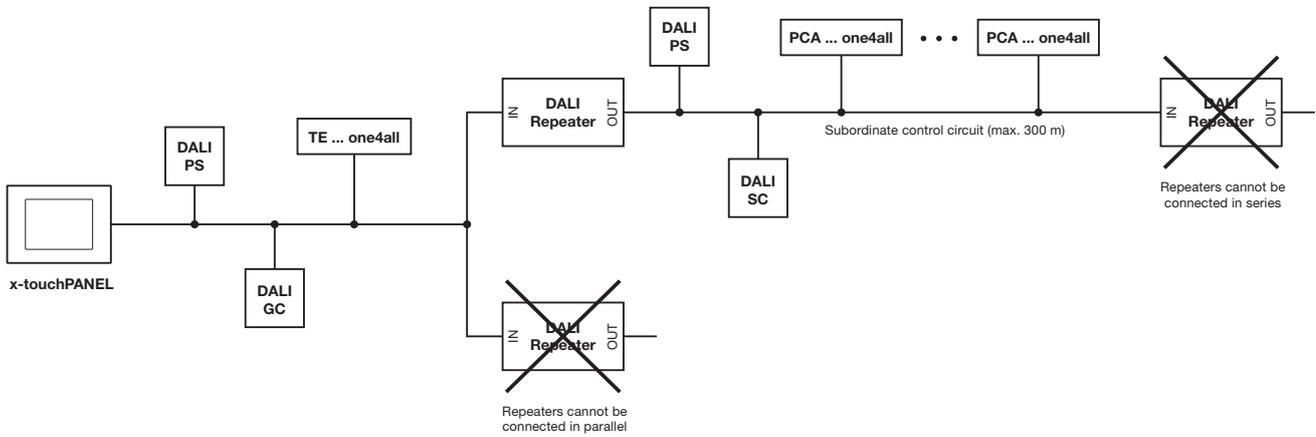


Connection diagram

Single-Master application



Multi-Master application



Attention

No star network possible, due to DALI actors in the subordinate control circuit. This would cause a not allowed cascading. For example the DALI command of the DALI SC in the subordinate control circuit ① passes two repeaters to the subordinate control circuit ②.

