

Power supply for DALI light bus system

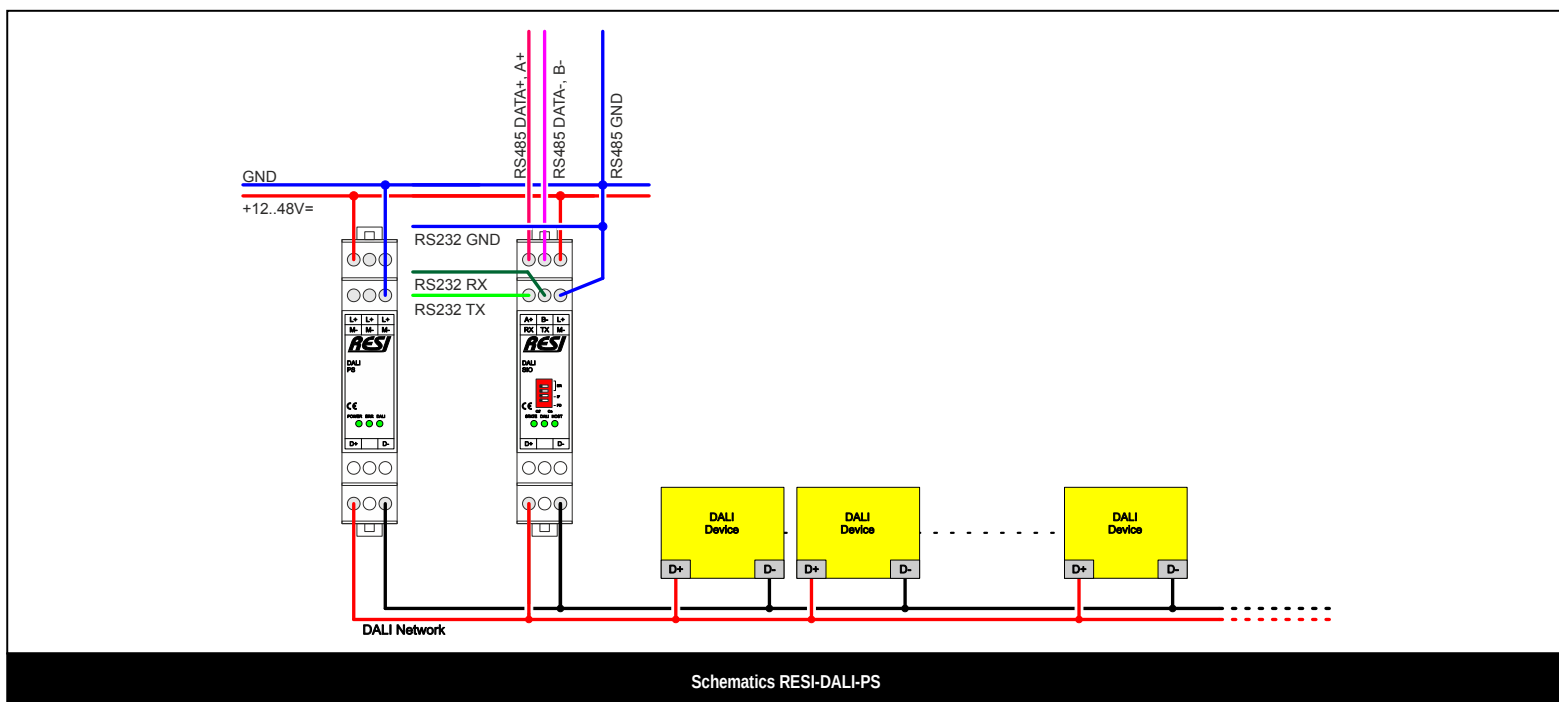
RESI-DALI-PS

Power supply for DALI light bus system, output current 200mA, input voltage 12-48Vdc

Our ultra slim power supply for DALI light bus is designed for use with any host system, which is powered with 24Vdc or between 12 and 48Vdc. The broad power supply from 12 to 48Vdc offers easy integration in many applications in the field of building automation or industrial automation. The power supply delivers 200mA output current for the connected DALI lamps and DALI controllers. The module offers 3 status LEDs and an integrated overload protection with ERROR LED.



RESI-DALI-PS



Schematics RESI-DALI-PS

HIGHLIGHTS

- Extreme slim housing
- DALI output current: max. 200mA
- Integrated overload protection for DALI
- Integrated status LEDs
- Power supply: 12-48Vdc

POWER SUPPLY

RESI-DALI-PS

DALI power supply
max. 200mA output current for DALI bus system
Primary power supply: 12-48V=

Serial+Ethernet gateways between DALI 1.0/2.0 and MODBUS/ASCII

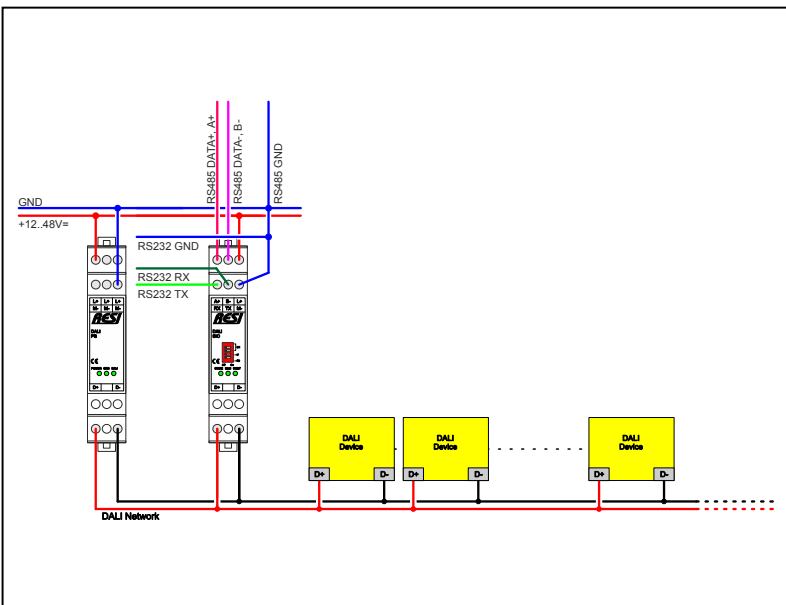
RESI-DALI-SIO, RESI-DALI-ETH

Powerful gateways to communicate with DALI lamps and DALI controllers via MODBUS or ASCII protocol

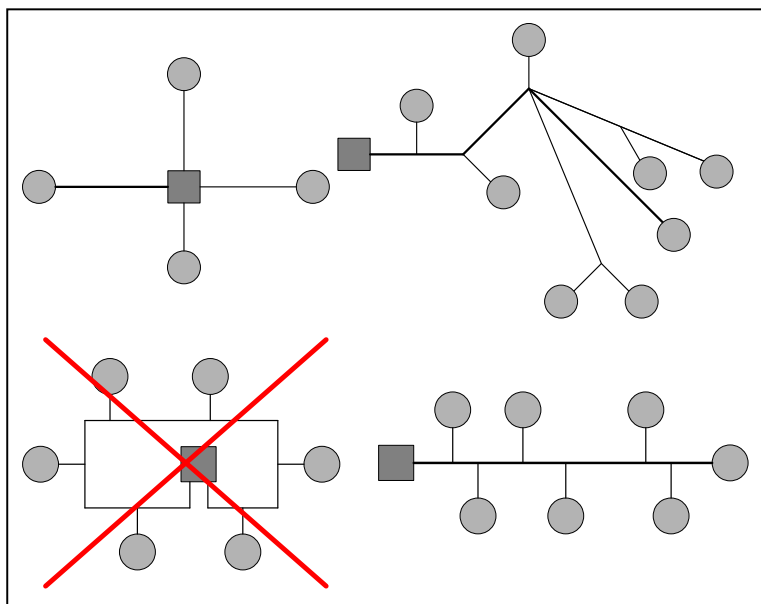
Our DALI gateways in combination with our DALI power supply are designed to communicate with a DALI bus system. You can send and receive all DALI commands according to DALI standard DALI 1.0 and DALI 2.0. Our gateways support also all DALI 24 bit frames for DALI control gears. Especially supported are the DALI device types 6 and 8 for RGBWAF color LED stripes. The gateways communicate with your host via standard MODBUS protocol (RTU or TCP) or via simple ASCII text protocol. The communication is handled via serial interface (RS232 or RS485) or via Ethernet. For easy configuration we offer a free software MODBUSConfigurator. With this software you can setup a complete DALI bus system. You can search for new devices, address the new devices and test your DALI system. The DALI interface is galvanic-ally insulated from the serial or Ethernet interface. The DALI devices can be connected in line, tree or star topology according to DALI standard.



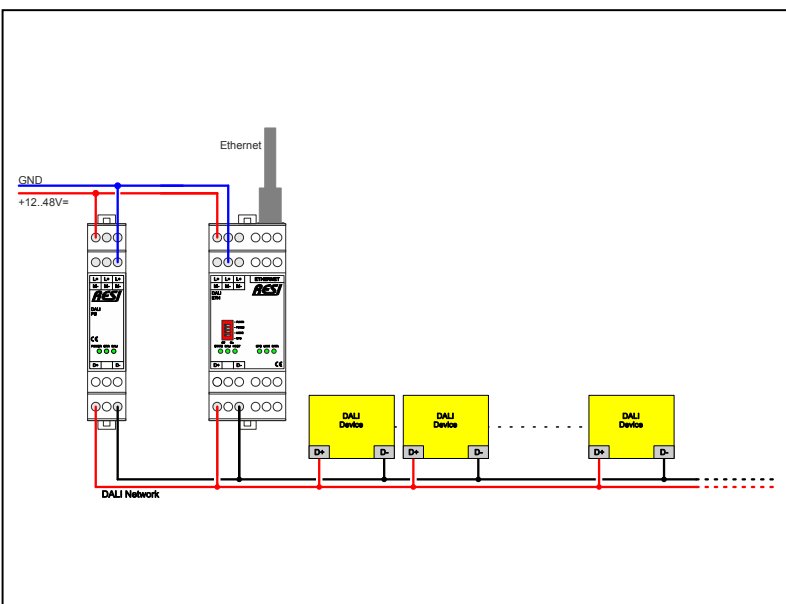
Our RESI-DALI-SIO, RESI-DALI-ETH gateways



Schematics DALI gateway with RS232 or RS485 interface



DALI cabling topologies



Schematics DALI gateway with Ethernet interface

HIGHLIGHTS

- Communication with DALI lamps or DALI control gears
- Supports DALI standard DALI 1.0, DALI 2.0, DT6, DT8
- MODBUS or ASCII protocol
- Easy configuration & test of complete DALI installation
- RESI-DALI-SIO: Serial interface: RS232 or RS485
- RESI-DALI-ETH: Ethernet interface
- Power supply: 12-48Vdc

SERIAL GATEWAYS	ETHERNET GATEWAYS	
RESI-DALI-SIO	RESI-DALI-ETH	DALI gateways between MODBUS/ASCII and DALI 1.0/DALI 2.0/DALI24 12-48V=

Serial+Ethernet gateways between DALI 1.0/2.0 and MODBUS/ASCII

RESI-DALI-SIO, RESI-DALI-ETH



Powerful gateways to communicate with DALI lamps and DALI controllers via MODBUS or ASCII protocol

EN

Our free configuration & test software MODBUSConfigurator

Test bench for DALI 1.0 /DALI 2.0 commands and queries

Serial+Ethernet gateways between DALI 1.0/2.0 and MODBUS/ASCII

RESI-DALI-SIO, RESI-DALI-ETH



EN

Powerful gateways to communicate with DALI lamps and DALI controllers via MODBUS or ASCII protocol

Short address	Ballast state	Lamp error	Lamp power	Limit error	Dimming	Reset state	Short address missing	Power supply	Actual level	Device Type	Serial Number
1	OK	No	On	No	finished	No	No	No	169 -> 66.5%	6 -> LED lamp control gear	GTIN:000000000000,SN:000000
2	OK	No	On	No	finished	No	No	No	1 -> 0.4%	8 -> Colour lampcontrol gear:3CH->RGB	GTIN:000000000000,SN:000000
3	OK	Yes	Off	No	finished	No	No	No	255 -> MASK	3 -> Low-voltage halogen lamp control gear	GTIN:03A542930D59,SN:61D00
4	OK	No	On	No	finished	No	No	No	1 -> 0.4%	8 -> Colour lampcontrol gear:Tc	GTIN:000000000000,SN:000000
5	Error	Yes	On	Yes	in progress	Yes	Yes	Yes	1 -> 0.4%	8 -> Colour lampcontrol gear:4CH->RGBW	GTIN:000000000000,SN:000000
6	OK	No	On	No	finished	No	No	No	86 -> 33.9%	8 -> Colour lampcontrol gear:4CH->RGBW	GTIN:FFFFFFFFFFFF,SN:FFFF

Read lamp settings Write lamp settings Switch MAX Switch MIN Switch OFF

Lamp name: Lamp 2

Short address: 2 Device type: 3:Low-voltage halogen lamp control gear

Physical minimum: 1

Minimum: 1,0x01 -> 0.39% Maximum: 254,0xFE -> 100.00%

Power up: 254,0xFE -> 100.00% Bus fault: 254,0xFE -> 100.00%

Fade time: 0,0x0 -> no fade time Fade rate: 7,0x7 -> 44.7steps/s

Brightness: 0,0x0000

Scene values:

1: 251->98.8%	5: 255->MASK	9: 255->MASK	13: 255->MASK
2: 255->MASK	6: 255->MASK	10: 255->MASK	14: 255->MASK
3: 255->MASK	7: 255->MASK	11: 255->MASK	15: 255->MASK
4: 255->MASK	8: 255->MASK	12: 255->MASK	16: 255->MASK

Read all scenes(8 bit) Write all scenes(8 bit)

Read all scenes(16 bit) Write all scenes(16 bit)

Dali lamp settings

Read lamp settings Write lamp settings Switch MAX Switch MIN Switch OFF

Lamp name: Lamp 1

Short address: 1 Device type: 8:Colour lampcontrol gear

Physical minimum: 1

Minimum: 1,0x01 -> 0.39% Maximum: 254,0xFE -> 100.00%

Power up: 254,0xFE -> 100.00% Bus fault: 127,0x7F -> 50.00%

Fade time: 10,0xA -> 16.0s Fade rate: 6,0x6 -> 63.3steps/s

Brightness: 127,0x007F

Scene values:

1: 255->MASK	5: 255->MASK	9: 255->MASK	13: 255->MASK
2: 255->MASK	6: 255->MASK	10: 255->MASK	14: 255->MASK
3: 255->MASK	7: 255->MASK	11: 255->MASK	15: 255->MASK
4: 255->MASK	8: 255->MASK	12: 255->MASK	16: 255->MASK

Read all scenes(8 bit) Write all scenes(8 bit)

Read all scenes(16 bit) Write all scenes(16 bit)

DT8 status Colour Scenes Init parameters

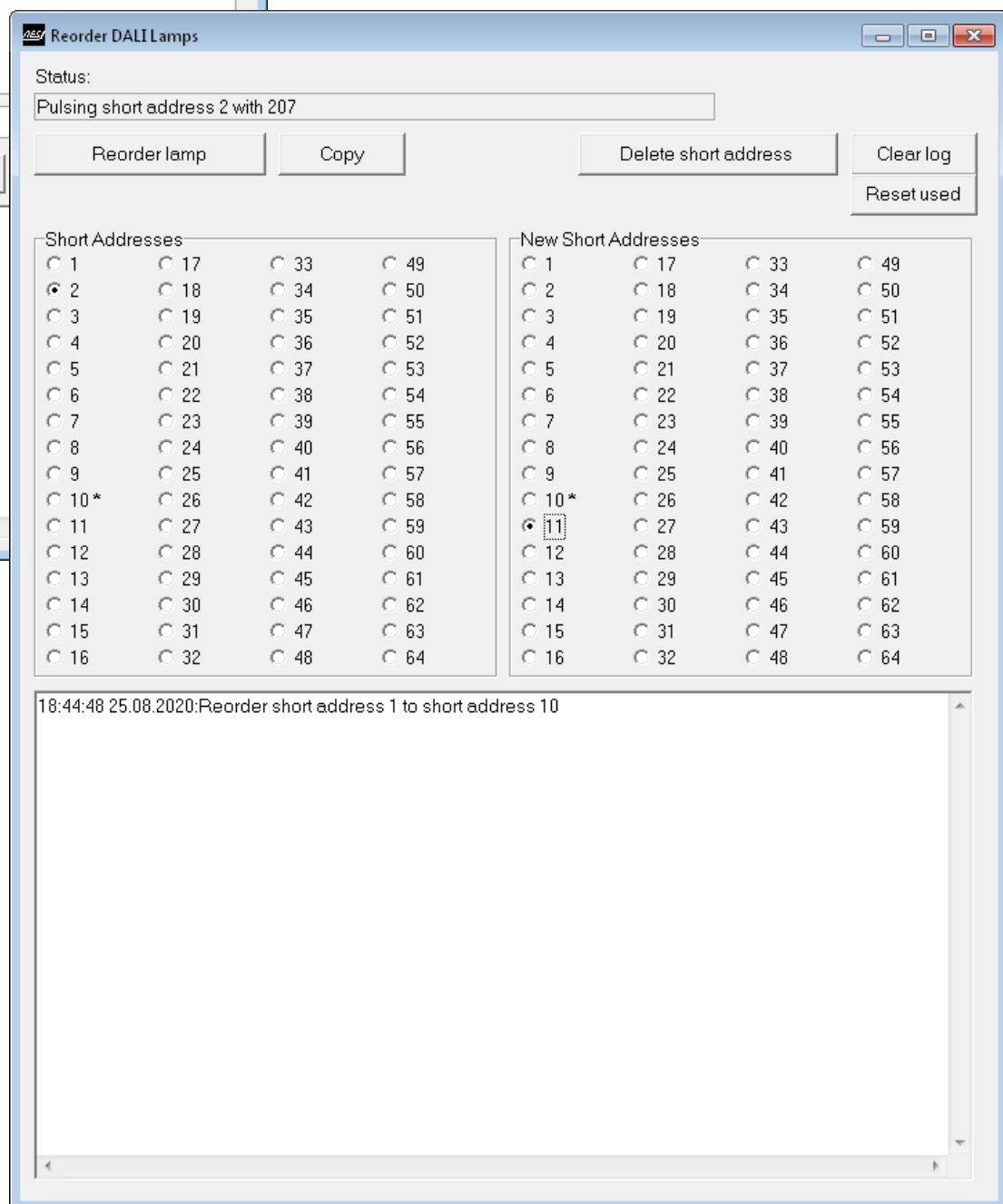
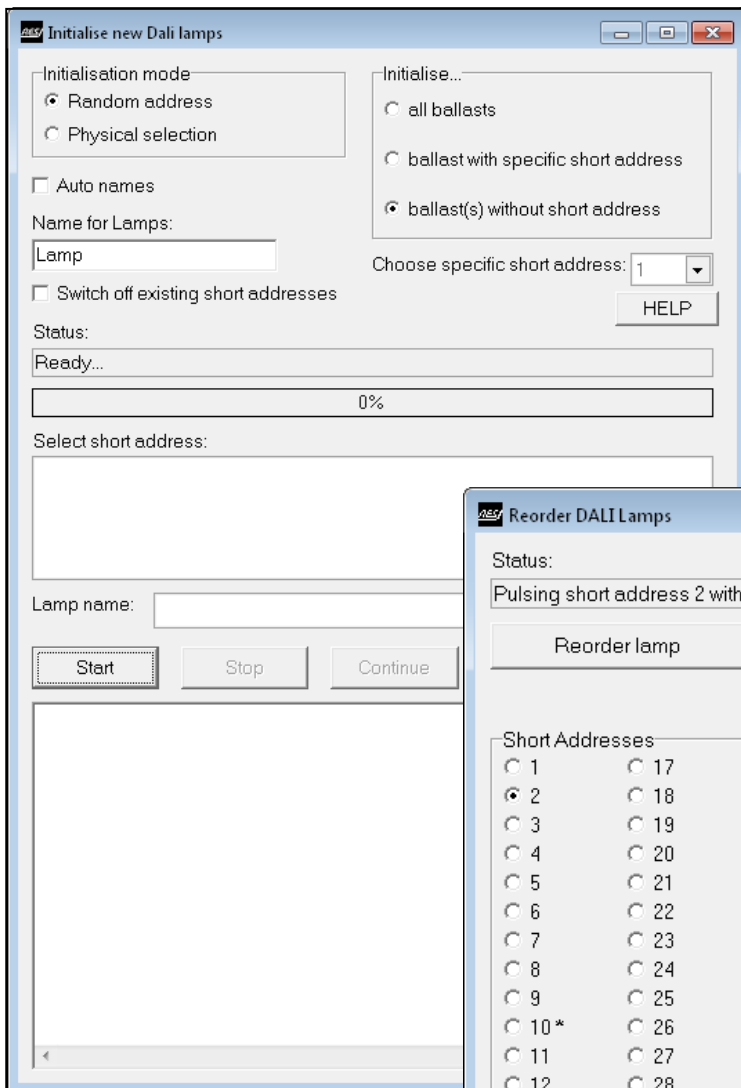
Read colours (8 bit mode)... Read colours (16 bit mode)...

x coordinate: ???? y coordinate: ???? Tc colour temperature: ???? Primary N dimlevel 0-5: ???? Channel 0 RED: 254,0xFE 185->72.8% Channel 1 GREEN: 254,0xFE 0->0.0% Channel 2 BLUE: 0,0x00 254->100.0% Channel 3 WHITE: 149,0x95 223->87.8% Channel 4 AMBER: ???? Channel 5 FREECOLOUR: ???? RGBWAF control: ???? Colour type: 128,0x0080

Search of lamps, query of lamp states, support of DEVICE TYPE 8

RESI-DALI-SIO, RESI-DALI-ETH

Powerful gateways to communicate with DALI lamps and DALI controllers via MODBUS or ASCII protocol



RESI-DALI-SIO, RESI-DALI-ETH

Powerful gateways to communicate with DALI lamps and DALI controllers via MODBUS or ASCII protocol

Short Address	Status	Desired Groups	Actual Groups
1	ERR		
2	ERR		
3	OK		1,3
4	OK		3-4
5	OK		
6	OK		
7	ERR		
8	ERR		
9	ERR		
10	OK		4-6
11	OK		4-6
12	ERR		
13	ERR		
14	ERR		
15	ERR		
16	ERR		
17	ERR		
18	ERR		
19	ERR		
20	ERR		
21	ERR		
22	ERR		

Actual short address: **N/A**

Desired groups

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Actual groups

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Test groups

1 2 3 4
 5 6 7 8
 9 10 11 12
 13 14 15 16

Short Address	Status	Desired Groups	Actual Groups
1	ERR		
2	ERR		
3	OK	4-6,10	4-6,10
4	OK	4-6,10	4-6,10
5	OK	4-6,10	4-6,10
6	OK	4-6,10	4-6,10
7	ERR		
8	ERR		
9	ERR		
10	OK		4-6
11	OK		4-6
12	ERR		
13	ERR		
14	ERR		
15	ERR		
16	ERR		
17	ERR		
18	ERR		
19	ERR		
20	ERR		
21	ERR		
22	ERR		

Actual short address: **3**

Desired groups

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Actual groups

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Test groups

1 2 3 4
 5 6 7 8
 9 10 11 12
 13 14 15 16

Activate Group Test

