

# IB IL DALI/PWR-PAC - Communication module



2897813

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Inline, DALI master, integrated DALI power supply unit, safe electrical isolation, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

## Product description

The terminal is designed for use within an Inline station. It represents a DALI master that can control up to 63 DALI ballasts. The IB IL DALI/PWR-PAC has an integrated DALI power supply unit. It can be extended with up to 3 additional IB IL DALI-PAC DALI masters.

## Your advantages

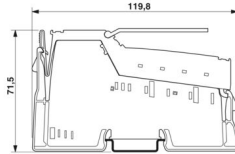
- Safe electrical isolation of the DALI bus
- Indicators for diagnostics, transmission, and reception
- Protection of the DALI bus against accidental connection of the mains voltage (up to 250 V AC)
- Up to 64 DALI devices per master terminal
- Function blocks for PC Worx are available

## Commercial data

Item number	2897813
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR18
Product key	DRHABA
GTIN	4046356133067
Weight per piece (including packing)	295 g
Weight per piece (excluding packing)	286 g
Customs tariff number	85389099
Country of origin	DE

## Technical data

### Dimensions

Dimensional drawing	
Width	48.8 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

### Notes

#### Note on application

Note on application	Only for industrial use
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### Interfaces

#### Inline local bus

Connection method	Inline data jumper
Transmission speed	500 kbps

#### Fieldbus: DALI

Designation	DALI
Connection method	Inline connector
Supply voltage	typ. 14 V DC (Bus voltage)
Output current with short-circuit	max. 250 mA
Current carrying capacity	max. 128 mA (Bus load; observe derating when using DALI extension terminals.)
Transmission speed	1200 bps
Type of protection	Bus protected up to 250 V AC, maximum

### System properties

#### System limits

Number of local bus devices that can be connected	3 (DALI extension terminals)
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#### Module

ID code (dec.)	191
ID code (hex)	BF
Length code (hex)	02
Length code (dec)	02

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Process data channel	32 bit
Input address area	4 Byte
Output address area	4 Byte
Register length	32 bit
Required parameter data	1 Byte
Required configuration data	5 Byte

## Product properties

Product type	I/O component
Product family	Inline
Type	modular
Installation location	Control cabinet
Scope of supply	including Inline connectors and marking fields
No. of channels	1
Special properties	integrated DALI power supply unit safe electrical isolation

## Electrical properties

Maximum power dissipation for nominal condition	10.6 W
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### Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 38 mA

### Potentials: Main circuit supply ( $U_M$ )

Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	max. 441 mA

### Potentials: DALI supply voltage $U_{DALI}$

Power supply	max. 512 mA
Current draw	max. 128 mA

## Connection data

### Connection technology

Connection name	Inline connector
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### Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 16
Stripping length	8 mm

## Environmental and real-life conditions

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## Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C (Observe derating when using DALI extension terminals.)
Degree of protection	IP20
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)

## Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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## Mounting

Mounting type	DIN rail mounting
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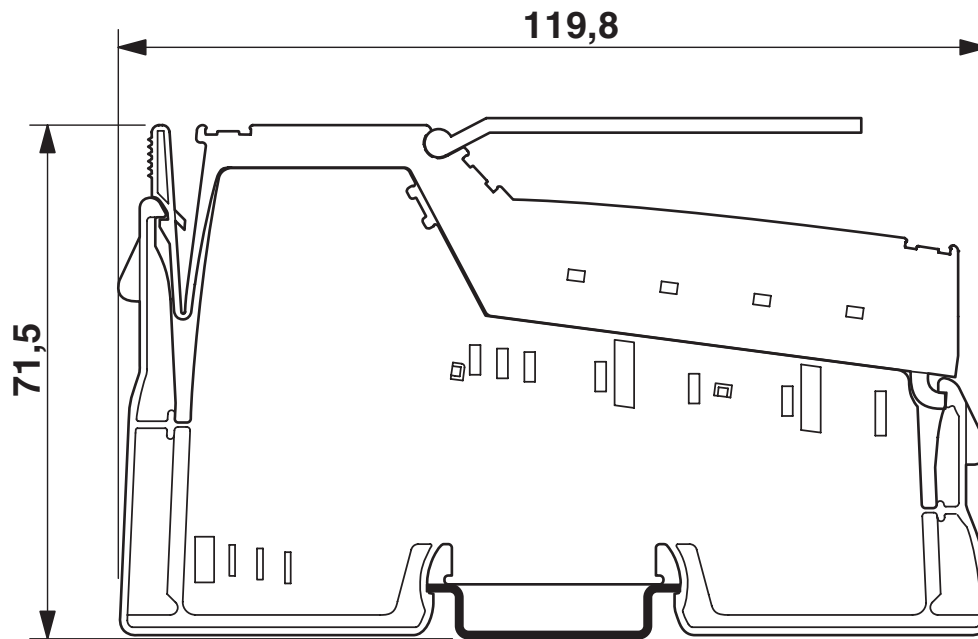
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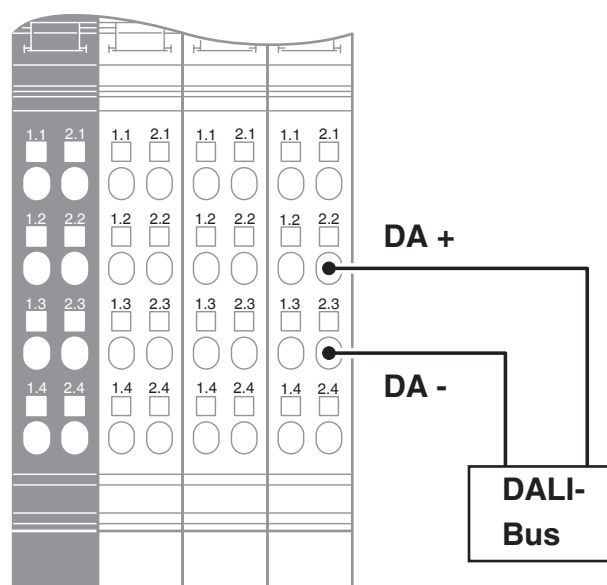
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## Drawings

Dimensional drawing



Connection diagram



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## Classifications

### ECLASS

ECLASS-13.0	27242608
ECLASS-15.0	27242608

### ETIM

ETIM 10.0	EC001604
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### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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