philips dynalite ())

Installation Instructions



DDNI485

Passive Gateway

Features

- Powered from DyNet

 Mains supply not required.
- Two optically isolated RS485 ports - 2.5KV isolation.
- **DIN-rail mounting** - 6 Units wide.



Do not connect DyNet to mains.

DyNet networks are SELV/Class 2. They must be isolated and segregated from mains and other wiring and installed per local wiring rules. This is a Class 2 device and must only be connected to Class 2 wiring. Use Class 2 approved power supplies only.

It is recommended that an electrician perform this installation.

Do not expose this device to rain or moisture. Connect the cable shield to the shield termination provided on the device connection port. RS485 cable shield must be earthed by terminating to the nearest grounding conductor. Installation, programming and maintenance must be carried out by qualified personnel.

Connections





Safety Instructions

Read Instructions – Read this document prior to installation. Refer to Specification Sheet for product performance data.

Mounting Location – Install horizontally with writing correct way up, in a dry well-ventilated location.

Power Sources – This device should only be operated from the type of supply specified on the front cover. This device must be earthed.

Data Cable – Use screened stranded RS485 data cable with three twisted pairs. Segregate from mains cables by 300mm minimum. A data cable that is connected to an energized device is live. Do not cut or terminate live data cables. The current carrying capacity of communication cables shall be at least equal to the total current limitation of the connected power supplies.

Cable Length – The maximum recommended length for DyNet cables between two network bridges is 800 meters. For cable runs over 300 meters or baud rates over 9600 bps, a 120 Ω end-of-line resistor must be installed across the D+ and D- terminals of the DyNet connector strip on the last device.

Installation - Must be done in accordance to the local wiring code/rules. The building automation and control system shall comply with HD60364-4-41. Connect devices in a 'daisy chain' configuration.



Installation Steps

- Mount the device on a DIN-rail inside an appropriate enclosure. For surface mounting, use the pull-out DIN clips as mounting tabs.
- 2. Connect data cables to the device as per diagrams.
- 3. When isolating network spur segments, (example 1) connect one segment to Port 1 and the next segment to Port 2. Note that the device is powered from the DyNet segment that is connected to Port 1.
- 4. When implementing Repeaters, (example 2) connect the first DyNet spur segment to Port 1 of the first gateway, then link Port 2 of both gateways together with a DDNP1501 power supply to power the link. Connect the next segment to Port 1 of the second gateway.

Network topology example 1

Electrical diagram



Leading edge Trailing edge 1-10V DALI control Switch control Ultrasonic Motion User control panels and light level detection eading edge DALI control Switch control Trailing edge 1-10V Ultrasonic Motion DDNI485 User control panels and light level detection

RS485 DyNet netwo

Network topology example 2





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