philips dynalite ())

DDNG-KNX Network Gateway

Installation Manual



features

- Powered From The DyNet Network Mains supply not required
- Optically Isolated between the two communication Ports 2.5KV surge isolation.
- Allows KNX integration to Philips Dynalite lighting control system
- Powerful Internal PLC Custom scripts can be written to provide process control based on conditional logic. Feature allows the gateway to before logical calculation from messages received and then peform the required reaction.
- DIN Rail Mounting 6 Units wide.

Warning – This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

 $\mbox{Read Instructions}-\mbox{We recommend that you read this Instruction Manual prior to commencement of installation.}$

Special Programming – This device will only operate in basic modes unless programmed via a computer. If programming is required, contact your local agent for details. Once the data cable is connected to the devices, the factory default settings will allow any control panel to operate all channels in all controllers.

Mounting Location - Install in a dry, well-ventilated location.

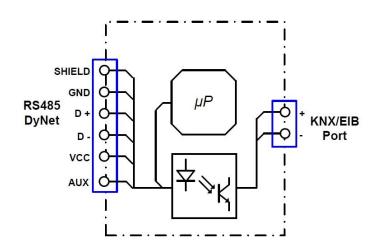
Data Cable – Use screened, stranded RS485 data cable with three twisted pairs. Segregate from mains cables by 300mm. Connect devices in a 'daisy chain'Do not cut or terminate live data cables.

 ${\rm Correct\ cabling\ -}\ lnsure\ that\ correct\ polarity\ of\ the\ KNX\ and\ DyNet\ ports\ are\ maintained\ and\ that\ only\ approved\ cables\ are\ used\ for\ each\ port.$

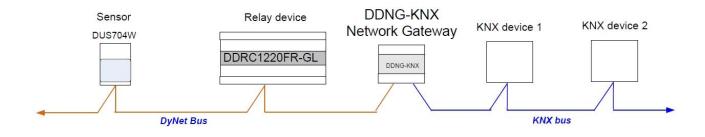
installation steps

- 1. Mount the device on a DIN rail inside an appropriate enclosure.
- 2. Ensure the both Dynet and KNX networks are powered down before beginning termination
- 3. Connect data cables to the device as per diagrams. Note that the device is powered from the DyNet network segment that is connected to Port 1.
- 4. Connect KNX network to second port of gateway. Ensure that correct polarity is maintained.
- 5. Power up both Dynet and KNX networks.
- 6. The gateway is now ready to be commissioned.

electrical diagram

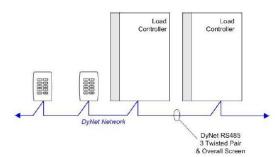


example net work topology

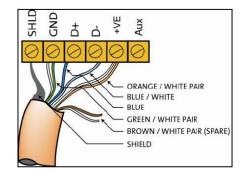


Connecting Data Cable

Connect Data Cable in a 'Daisy Chain'



Serial Cable Permanent Connections



Recommended Cable Colour Coding

Green/White Pair Orange/White Pair Blue/White Pair paralleled for GND paralleled for +12V Blue for DATA+ White for DATA-Spare, use for Shield on unshielded cable Recommended Cable Types Belden: 9503 M&M cable: Garland: MCP3S Multicables:

9503 MCP3S HCK603 B2003CS M&M cable: Multicables: RS Components: Dynalite:

B9503CS AWME120236209220 368-687 DYNET-STP-CABLE

Brown/White Pair

product specifications

RS485 Serial Port 1:

KNX Serial Port 2: Serial Port Isolation: User Controls: Internal Controls: Operating Environment: Power Consumption:

Compliance: Construction: Dimensions: Weight: 1 x AUX programmable dry contact input 1 x KNX consisting of 1 x 2 pole polarized connector Opto Isolated to 2.5KV Surge Service Switch, Diagnostic LED for Dynet and KNX network Programmable Logic Controller, 64 Tasks 0° to 40°C ambient temperature, 0% to 90% RH non condensing Max15mA from the DyNet network at 12-15VDC Max 5mA from KNX/EIB CE, C-Tick, CISPR22 Class B emissions, immunity as per IEC 60335 / 730 Polycarbonate DIN Rail enclosure (6 unit) H 86mm x W 105mm x D 66mm 0.8kg

1 x RS485 un-terminated, consisting of 1 x 6 way terminal block

Hartland:

M&M Cable:

DDNG-KNX Instruction Manual Rev A.doc Specifications subject to change without notice

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