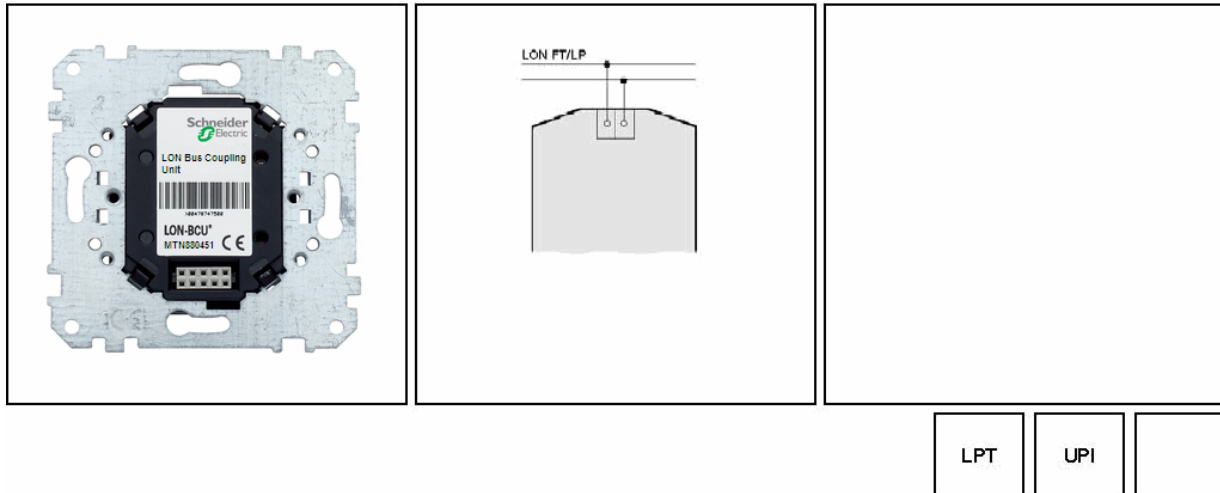


LON Bus Coupling Unit

Article no.: MTN880451

Description



- base module for flush-mounted LON devices and interface between application modules and LON network
- screw fixing in flush-mounted boxes
- software applications according to LonMark profile “Switch (3200)”, “Occupancy Sensor (1060)” and “Scene Panel (3250)” to translate the signals of the connected application modules (pushbuttons, motion detectors, temperature controllers, etc.) into messages for light, sunblind, occupancy and single room temperature control

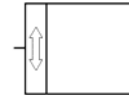
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Function

The LON Bus Coupling Unit UP (LON-BCU[®]) is the base module for flush-mounting application modules with 10pin plug-in interface (PEI).

The LON-BCU builds the mechanical, electrical and data technical connection between a LonWorks TP/FT network and an application module. The telegrams received from the bus are analyzed and passed on as instructions over the PEI to the application module. In opposite direction signals of the application module are changed into telegrams and transmitted on the bus.



Mounting

The LON-BCU is suitable for the assembly in flush-mounted boxes. It is fastened with screws to the installation box. An attachment by means of claws is not possible. The application modules are attached on the LON-BCU.

The network link is made by a two-pole bus connecting terminal, which offers a connection type for up to 4 conductors. Conductors with a cross section from 0,6 to 0,8 mm² can be attached.

By pressing the service pin the LON-BCU is arranged to transmit its Neuron ID. The service LED displays the programming status.

For the operation of the device an application program is necessary.

Remarks

Installation and assembly of electrical devices may take place only by an electrical specialist.

When planning an installation of electrical systems the relevant standards, guidelines and regulations of the respective country are to be considered. Beyond that the device specifications are to be kept. For project engineering, assembly and line-up detailed expertise of the Lon technology is presupposed.

The function of the device is software dependent. Only application programs may be loaded, which are approved for this device.

The system integrator has to carry ensuring that the loaded application program and the configured parameters in it correspond with the outside wiring of the device. This applies in particular if for different use several application programs for a device are available.

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Technical Data

Power supply

Supply voltage: DC 42.8 V (supplied by the network)

Power consumption (max.): 1 LPUL (285 mW), 6.2 mA @ 42 V, 25 mA @ 5 V (depending on the application module)

Network interface

Channel type: TP/FT-10 (78 kbps)

Transceiver type: LON Link Power Transceiver (LPT-11)

Controls

Service pin: Propagates the Neuron ID

Indicators

Service LED (red): lit: network access error
flashes: module unconfigured

Connections

Bus: 2-pole plug-in and branch terminal (Type: WAGO 243)

Physical External Interface (PEI): 10-pole plug-in socket, EIB compatible rated voltages: DC 5 V, DC 20 V (max. 2 mA) rated power: 50 mW

Housing

Dimensions: mounting depth: 22 mm

Protection class: IP20 (EN 60 529/IEC 144)

Mounting: Screw mounting in a flush-mounted wall socket (60mm)

Conformity

EU Directive: 2004/108/EEC