

DOMIQ/Serial-4DX

DOMIQ/Serial-4DX was designed to integrate **DOMIQ/Base** module with devices that use **DMX512** protocol. DMX512 data stream is sent using RS-485 communication standard. Up to 32 devices can be connected simultaneously to one DMX512 driver. This limitation is caused by standard input currents of the RS-485 devices. If you use high input resistance devices the number of the devices can be increased up to 256.

Module is designed to be installed in the installation closet on the 35mm DIN rail. Before installation on DIN rail please push lock on the bottom of the module. Due to the length of the standard ribbon cable, the module should be mounted on the right side of the **Base** module.

Connections and wiring

- **IN** connector - ribbon cable connecting module with **EXT** connector of the **Base** module or with **OUT** connector of the other **DOMIQ** extension module. Before plugging the ribbon cable, turn **Base** module off.
- **D+** and **D-** connectors - DMX-512 wires. A DMX512 controller transmits asynchronous serial data at speed of 250kbit/s. Maximum DMX512 network wire length at this transmission speed is 400m. Network wiring consists of a shielded twisted pair with a 100Ω termination resistor at the end of the cable furthest from the controller to absorb signal reflections.



Signaling

On the lower part of the module set of 4 LEDs is installed: **ACT** (blue), **ERR** (red), **TX** (yellow), **RX** (green). Normal operating is indicated by blinking of the **ACT** and **RX**. **TX** blinks when any DMX512 channel changes its value.

Application

DOMIQ/Serial-4DX was designed to control LED lighting, but it can be successfully used to control any DMX device. In case you use **Serial-4DX** to control LED lighting, you additionally need a LED driver, for example **DAGON SPL-1** and adequate power supply.

Serial-4DX module can handle up to 256 DMX512 slots, so one module can control up to 256 single-color LEDs circuits or up to 85 circuits of the RGB LEDs.

