EMDC-64M | Converter iNELS EBM - DALI/DMX

EAN code
EMDC-64M: 8595188150309

Technical parameters	EMDC-64M
Power supply	
Supply voltage/tolerance/	AC 230 V (50 - 60 Hz)/
Rated current:	-15/+10 %/max. 100 mA
DALI power supply:	16 V, 250 mA
Dissipated power:	max. 3 W
Communication	
Input interface:	EBM BUS (RS485 communication)
Output interface:	DALI (max. 64 ballasts)
	DMX (max. 32 receivers, with repeater up to 64)
Indication	
Power supply:	green LED Un
Error surge or short DALI:	illuminated red LED ERR
Indication of unit status:	LED DALI/DMX (see iNELS installation handbook)
Operating conditions	
Relative humidity:	max. 80 %
Operating temperature:	-20 °C to +55 °C
Storage temperature:	-30 °C to +70 °C
Protection degree:	IP20 device, IP40 mounting in the switchboard
Control device purpose:	operating control device
Control device construction:	individual control device
Characteristic of automatic action:	2.5 kV
Overvoltage category:	II.
Pollution degree:	2
Operating position:	vertical
Installation:	into switchboard on DIN rail EN60715
Implementation:	3-MODULE
Dimension and weight	
Dimension:	90 x 52 x 65 mm
Weight:	140 g

- The unit EMDC-64M is designed to control DALI electronic ballasts and DMX receivers from the iNELS system.
- EMDC-64M enables control of up to 64 independent electronic ballasts DALI (Digital Addressable Lighting Interface) for fluorescent lamps, LEDs and other light sources.
- EMDC-64M also enables connection of up to 64 DMX receivers (Digital MultipleX).
- Control from iNELS BUS System via EBM BUS.
- DIP switches on the front panel to select the control interface (DALI/DMX).
- Addressing of DALI ballast units can be done via the central unit and iDM3 software or via MINI USB on the front panel of the EMDC-64M and DALI Configurator software.
- The required functionality is set in user project in iDM3 software.
- The unit EMDC-64M is powered from the mains voltage 230 V AC.
- DALI BUS power supply is 16 V/250 mA via an EMDC-64M unit.
- The system BUS EBM is galvanically separated from the BUSes DALI/DMX. Terminals for connecting the DALI BUS are equipped with short circuit and surge protection.
- It is possible to connect up to 8 EMDC-64M units to one EBM BUS.
- If this concerns the last unit on a system BUS EBM, it is necessary to terminate the wire with a resistor with nominal resistance of 120 Ω. The resistor is inside the unit, termination is made by shorting neighboring terminals TERM and EBM+.
- The BUS DMX must be terminated at its end by a resistor with nominal resistive value 120 Ω. The resistor for DMX BUS termination is on the side of the EMDC- 64M inside the unit, termination is performed by shorting adjacent terminals TERM and A.
- Updating the firmware of the EMDC-64M can be done through the central unit adn software iDM3 or via MINI USB on the front panel and EMDC-64M Flasher software. Updating through MINI USB must be done while system BUS EBM is disconnected.
- When configuring DALI addresses two types are necessary to distinguished:
  - MASTER - this group includes sensors and detectors and one DALI branch can connect up to 4 DALI MASTER units
    - lighting intensity sensor DLS3-1
    - motion detector DMD3-1
  - SLAVE - electronic lighting ballast
- EMDC-64M in 3-MODULE design is designed for mounting in a control panel on a DIN rail EN60715.

Connection