MDT DALI Control PRO64 Gateway, rail mounted

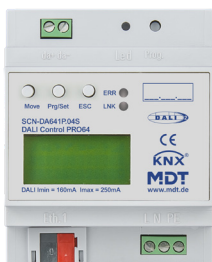| Version		
SCN-DA641P.04S	DALI Control PRO64 Gateway	4TE REG, 64 EVG / 16 DALI Groups

The MDT DALI Control PRO64 Gateway is a multi-master application controller for controlling electronic ballasts with DALI interface via the KNX installation bus. It supports ballasts according to EN 62386-102 ed1 (DALI 1), devices according to EN 62386-102 ed2 (DALI-2), as well as DALI-2 motion sensors and light sensors according to EN 62386-303 and EN 62386-304. The device transforms switching and dimming commands from the connected KNX system into corresponding DALI telegrams, or status and event information from the DALI bus into KNX telegrams. The DALI Control PRO64 Gateway has a DALI output which can control up to 64 ECGs. In addition, up to 8 DALI-2 motion detectors or light sensors can be connected. Multi-master operation according to EN 62386-103 ed2 is permitted.

The required power supply for the connected ECGs and motion sensors is provided directly from the device. Additional DALI power supplies are not required. When using sensors supplied via the DALI bus, it must be ensured that the current consumption of all connected DALI devices does not exceed the guaranteed value. The device is available in a 4SU wide DIN rail housing for direct installation in an electrical distribution board. The bus connection is made via a standard bus connector. Mains and DALI lines are connected via screw terminals on the device. Ethernet is connected via an RJ45 socket.

Per gateway the ECGs can be controlled in 16 groups. In addition to the group control, the DALI Control PRO64 Gateway also allows individual control of up to 64 ECGs. In addition to the control of all standard operating devices, the DALI Control PRO64 Gateway also allows the operation of single battery emergency lights (EN 62386-202). Emergency lighting systems with central battery are also supported.
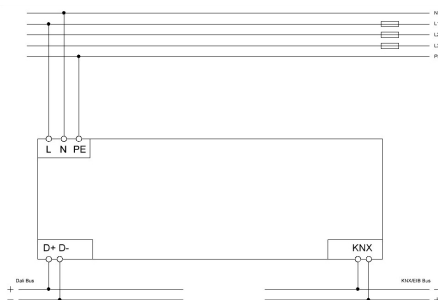
The special interface for configuring the DALI segments is designed as a DCA (Device Control App) for the ETS5 / 6. Please make sure that the corresponding „etsapp" is installed in addition to the product database "knxprod". This is available for download on the MDT website.

SCN-DA641P.04S

- Production in Germany certified according to ISO 9001
- **Individual control of up to 64 ECG / 16 DALI groups**
- KNX Secure device
- **Supports DALI and DALI-2 standard**
- Up to 8 DALI-2 motion detectors or light sensors can be connected additionally
- **Innovative HSV colour control, RGB, RGBW and XY colour according to Dali DT8 standard in 64 individual Channels / 16 DALI groups**
- **Tunable White colour temperature control**
  64 individual Channels / 16 DALI groups
- Supports different DALI DT6 / DT8 ECG
- **Integrated colour control module for time dependent control**
- Manual operation for all 16 groups
- 16 scenes with individual dimming times
- Energy saving function, 16 flexible standby groups for switching off any individual channels / groups of ECGs (via additional KNX switch actuator)
- Simple group attribution directly on the device
- Dali Commissioning via Webbrowser or directly on the device display
- ECG quick exchange
- Detection of faulty lamps and faulty ECGs, quick exchange of ECG
- Free DCA app for commissioning the DALI bus system
- Commissioning with ETS5 or higher
- 3 years warranty

Technical Data	SCN-DA641P.04S
DALI Bus	
Number of outputs	1 DALI output
Output type	Multi-Master Application Controller according to EN 62386-103 ed2
Number of ballasts	max. 64 ECGs according to EN 62386-101 ed1 and ed2
Number of sensors	max. 8 motion detectors and sensors according to EN 62386-303 / -304
DALI Voltage	typically 18 VDC, short-circuit proof max. 250 mA, Basic insulation (no SELV)
Recommended wire cross-section	min. 1,5 mm²
Guaranteed supply current	160 mA
Maximum supply current	250 mA
Shutdown Verzögerung	600 ms after DALI short circuit shutdown occurs
Shutdown delay	5s after short circuit detection
Ethernet	100BaseT (100Mbit/s) supported IEEE 802.3
Electrical Safety	
Protection type (in accordance with EN 60529)	IP20
Protection class (according to IEC 1140)	I
Overvoltage category	III
Pollution class	2
KNX BUS	SELV DC 24
DALI Bus	typical 18 V DC, 250 mA base isolation (no SELV)
EMC requirements	complies with directive 2014 / 30 / EU
Certification	KNX certified, DIIA certified according EN 62386-101 ed2 and EN 62386-103 ed2
Specification KNX interface	TP-256 with long frame support for ETS5 / 6
Available application software	ETS5 / 6
Permitted wire gauge	
Screw terminal (max. 0.5 Nm tightening torque)	0,5 - 4,0 mm² solid core / 0,5 - 2,5 mm² finely stranded
KNX busconnection terminal	0,8 mm Ø, solid core
Power Supply	230 VAC/50 Hz
Max. Power consumption	8 W
Operation temperature range	-5 to + 45° C
Dimensions MDRC (Space Units)	4SU

Exemplary circuit diagram SCN-DA641P.04S

After the device has been inserted, the cable for the DALI bus should be attached to the upper left connector first. In accordance with EN 62386, the DALI control lines can be carried in a 5-wired cable together with the power supply (simple basic insulation is sufficient). However, please make sure that these are labelled clearly. For the entire DALI installation of a segment, a maximum cable length of 300 m must not be exceeded. (Recommended cross-sectional area 1.5 mm²).