



The 753-647 DALI Multi-Master Module complies with DALI standard according to IEC 62386. This manufacturer-independent protocol ensures interoperability of DALI devices in lighting applications.

The 1/2 inch (12 mm) wide module is a DALI interface used in combination with WAGO 750 Series Controllers and Modules (e.g., BACnet, KNX, EnOcean, LON, MODBUS).

Each DALI Multi-Master Module supports 64 addresses for electronic control gears (ECGs) and 64 addresses for DALI sensors. Each DALI ECG can be assigned to 16 groups and 16 scenes. The 753-647 Module also offers 16 additional virtual groups on the DALI bus.

Using the WAGO-I/O-SYSTEM, DALI control devices are seamlessly integrated with all supported BA and fieldbus protocols. Several DALI masters can be connected to a single fieldbus node. The maximum number of modules that can be connected to a controller depends on the memory required by the application. Fieldbus nodes are

programmed via WAGO-I/O-PRO software. WAGO provides a comprehensive IEC-61131-3 library of function blocks, simplifying the creation of complex lighting applications.

Alternatively, an "Easy Mode" allows lighting functions to be easily controlled without any complicated PLC programming. The 753-647 Module is future-proof and upgradable to the latest DALI release. A comprehensive and easy-to-use commissioning and maintenance tool is available as stand-alone application or as integrated WAGO-I/O-CHECK software component.

The two following power supply options are available for the 753-647 Series:

1. The 753-620 DALI Multi-Master DC/DC Converter is used to supply one single module.
2. The 787-1007 Power Supply is used to supply several modules.

| Description | Item No. | Pack. Unit |
|---|--|------------|
| DALI Multi-Master Module | 753-647 | 1 |
| Accessories | | |
| DALI Configurator | see Section 1 or download: www.wago.com | |
| WAGO-I/O-CHECK, RS-232 kit | 759-302 | 1 |
| Miniature WSB Quick marking system | | |
| plain | 248-501 | 5 |
| with marking | see Section 11 | |
| 753 Series Connectors | 753-110 | 25 |
| Coding elements | 753-150 | 100 |
| 753 Series pluggable connector and coding accessories are part of the delivery. | | |
| Approvals | | |
| Conformity marking | CE | |
| Marine applications | DNV GL | |
| UL 508 | | |

| Technical Data | |
|--|---|
| DALI specification | DIN IEC 62386 only in conjunction with 753-620 or 787-1007 Power Supplies |
| Number of slaves (DALI) | addressable: 64 control devices + 64 control gears |
| Module power supply at +V and -V | 18 V via 753-620 / 787-1007 Power Supplies |
| Transmission channel | 1 |
| Technical information acc. to DALI specification | |
| Maximum supply current | 250 mA |
| Guaranteed supply current | 200 mA |
| Current consumption from DALI bus with alternative supply via DALI bus | 10 mA |
| Current consumption (internal) | 85 mA |
| Power supply | via system voltage (DC/DC) |
| Isolation | 1500 V DC DALI bus/Internal data bus |
| Internal bit width | 24-byte data |
| Commissioning | via WAGO-I/O-CHECK |
| Configuration | with WAGO DALI Configurator |
| Programming | via WAGO-I/O-PRO |
| Wire connection | CAGE CLAMP® |
| Cross sections | 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 14 |
| Strip lengths | 9 ... 10 mm / 0.37 in |
| Width | 12 mm |
| Weight | 55 g |
| EMC immunity of interference | acc. to EN 61000-6-2*, marine applications |
| EMC emission of interference | acc. to EN 61000-6-3*, marine applications |
| *Only in conjunction with 753-620 / 787-1007 DC/DC Converter | |