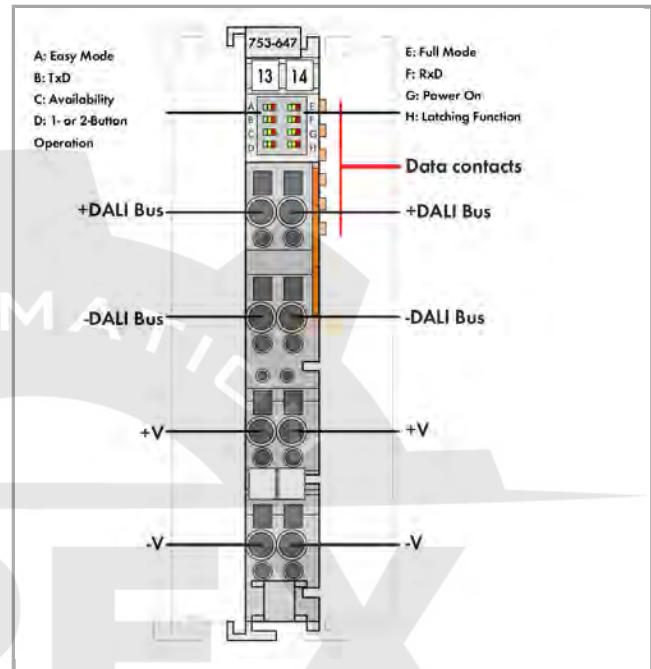
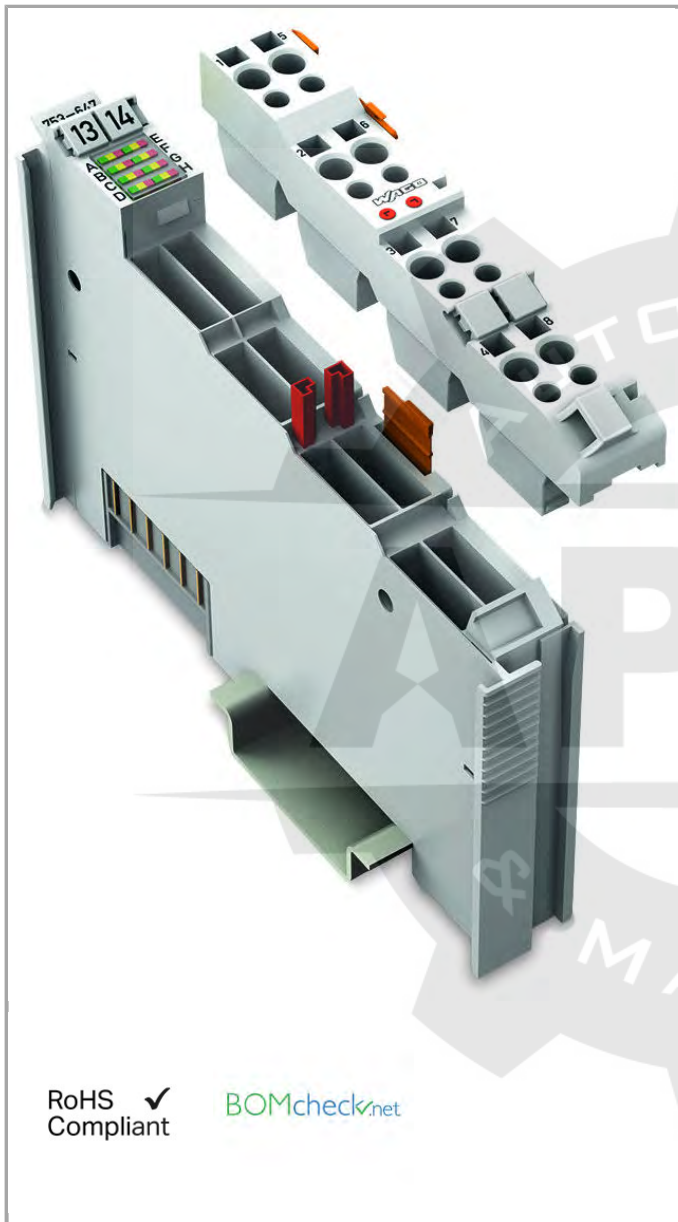
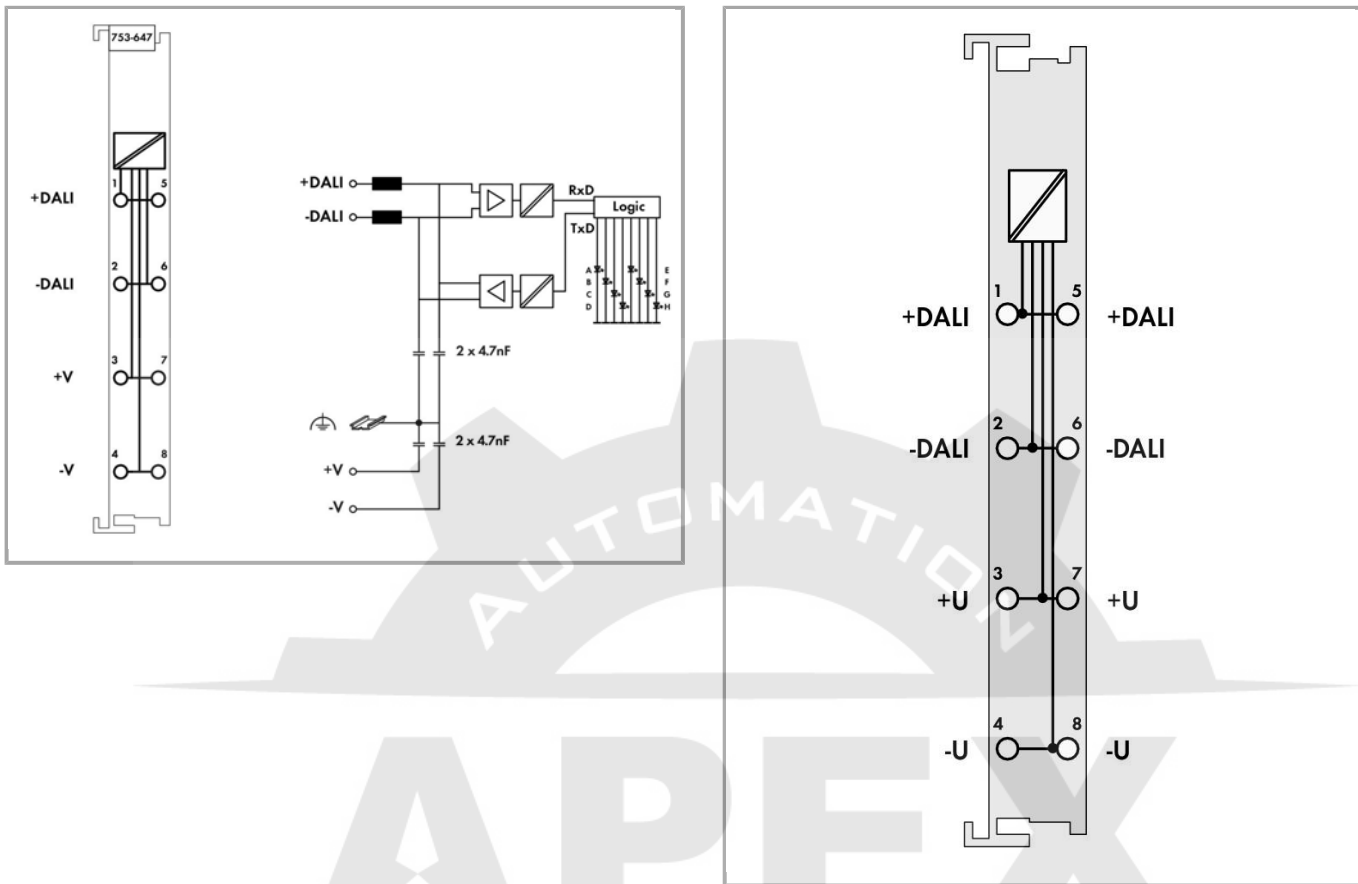




RoHS Compliant

BOMcheck.net



Item description

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.

Data

Technical Data

Gerätespezifikation	DALI specification: DIN IEC 62386 only in conjunction with 753-620 or 787-1007 Power Supplies
Topology	Number of slaves (DALI): addressable: 64 control devices + 64 control gears
Transmission channel	1
Bit width	24-byte data
Guaranteed supply current	200 mA
Maximum supply current	250 mA
Power supply	DALI: 18 V (extern)
Commissioning	via WAGO-I/O-CHECK
System supply voltage	DC 5 V; via data contacts
Current consumption, system supply (5 V)	85 mA
System and sensor supply voltage	)
Isolation	1500 V DC DALI bus/Internal data bus

Connection data

Connection technology: In-/Outputs	8 x CAGE CLAMP®
Connection type (1)	Inputs/Outputs
Solid conductor	0.08 ... 2.5 mm² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm² / 28 ... 14 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inch

Geometrical Data

Width	12 mm / 0.472 inch
Height	69 mm / 2.717 inch
Height from upper-edge of DIN-35 rail	61.8 mm / 2.433 inch
Depth	100 mm / 3.937 inch

Mechanical data

Type of mounting	DIN-35 rail
Pluggable connector	yes

Material Data

Housing material	Polycarbonate, polyamide 6.6
Weight	55.506 g
Conformity marking	1

Environmental Requirements

Surrounding air (operating) temperature	0 ... 55 °C
Surrounding air (storage) temperature	-40 ... 85 °C
Protection class	IP20
Degree of pollution (5)	2 per IEC 61131-2
Operating altitude	0 ... 2000 m
Mounting position	horizontal (standing/lying) or vertical
Relative air humidity (no condensation)	95 %
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	acc. to EN 61000-6-2*, *Only in conjunction with 753-620 / 787-1007 DC/DC Converter
EMC emission of interference	acc. to EN 61000-6-3*, *Only in conjunction with 753-620 / 787-1007 DC/DC Converter
Exposure to pollutants	Per IEC 60068-2-42 and IEC 60068-2-43
Permissible H ₂ S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO ₂ contaminant concentration at a relative humidity 75 %	25 ppm

Commercial data

Product Group	15 (Remote I/O)
Country of origin	DE
GTIN	4050821475712
Customs Tariff No.	85389099990

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-MSM750

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19-HG1821926

**DNV GL**

Det Norske Veritas, Germanischer Lloyd

-

TAA0000194

**PRS**

Polski Rejestr Statków

-

TE/2236

/880590/19

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Netherlands B.V. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.1

Compatible products**shield connection**

	Item no.: 790-108 Shield clamping saddle; 11 mm wide; diameter of compatible conductor	790-108
	Item no.: 790-116 Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm	790-116
	Item no.: 790-124 Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm	790-124
	Item no.: 790-140 Shield clamping saddle; diameter of compatible conductor	790-140
	Item no.: 790-208 Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm	790-208
	Item no.: 790-216 Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm	790-216
	Item no.: 790-220 Shield clamping saddle; 30 mm wide; 6 ... 20 mm	790-220

pluggable wiring tier



Item no.: 753-150
753 Series coding elements

753-150

Marking accessories

	Item no.: 2009-145 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type		2009-145
	Item no.: 2009-145/000-002 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/0000-002	2009-145
	Item no.: 2009-145/000-005 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/0000-005	2009-145
	Item no.: 2009-145/000-006 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/0000-006	2009-145
	Item no.: 2009-145/000-007 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/0000-007	2009-145
	Item no.: 2009-145/000-012 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/0000-012	2009-145
	Item no.: 2009-145/000-023 Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/0000-023	2009-145
	Item no.: 2009-145/000-024 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/0000-024	2009-145
	Item no.: 248-501 Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card		248-501
	Item no.: 248-501/000-002 Mini-WSB marking card; as card; not stretchable; plain; snap-on type	/0000-002	248-501
	Item no.: 248-501/000-005 Mini-WSB marking card; as card; not stretchable; plain; snap-on type	/0000-005	248-501
	Item no.: 248-501/000-006 Mini-WSB marking card; as card; not stretchable; plain; snap-on type	/0000-006	248-501
	Item no.: 248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type	/0000-007	248-501
	Item no.: 248-501/000-012 Mini-WSB marking card; as card; not stretchable; plain; snap-on type	/0000-012	248-501

**Item no.: 248-501/000-017**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type

/000-017

248-501

**Item no.: 248-501/000-023**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type

/000-023

248-501

**Item no.: 248-501/000-024**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type

/000-024

248-501

**Item no.: 709-198**

Marking strips

709-198

**Item no.: 750-103**

Group marker carrier

750-103

**Item no.: 750-107**

Group marker carrier

750-107

power supply**Item no.: 753-620**

DALI Multi-Master DC/DC converter

753-620

**Item no.: 787-1007**

Switched-mode power supply; for DALI module (753-647); 1-phase; 18 VDC output voltage; 1.1 A output current

787-1007

Carrier rail**Item no.: 210-112**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm

210-112

**Item no.: 210-113**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715

210-113

**Item no.: 210-114**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715

210-114

**Item no.: 210-115**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm

210-115

**Item no.: 210-118**

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715

210-118

**Item no.: 210-196**

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715

210-196

**Item no.: 210-197**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715

210-197

**Item no.: 210-198**

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715

210-198

**Item no.: 210-504**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715

210-504

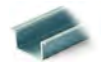
Item no.: 210-505

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN

210-505



60715

**Item no.: 210-506**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715

210-506

**Item no.: 210-508**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715

210-508

system box**Item no.: 850-804**

IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 4 x M20, 16 x M16, 28 x M12 cable grip

850-804

**Item no.: 850-804/000-001**

IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 2 x M20, 13 x M16, 32 x M12 cable grip

850-804

**Item no.: 850-805**

IP65 enclosure; Stainless steel; WxHxD (600x123x200 mm); 4 x M20, 19 x M16, 67 x M12 cable grip

850-805

**Item no.: 850-814/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate

850-814

**Item no.: 850-815/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate

850-815

**Item no.: 850-816/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate

850-816

**Item no.: 850-817/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate

850-817

**Item no.: 850-825**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20

850-825

**Item no.: 850-826**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip

850-826

**Item no.: 850-826/002-000**

IP65 enclosure; Aluminium (RAL 7035); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip

850-826

**Item no.: 850-827**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip

850-827

**Item no.: 850-827/002-000**

IP65 enclosure; Aluminium (RAL 7035); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip

850-827

**Item no.: 850-828**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip

850-828



Item no.: 850-828/002-000

IP65 enclosure; Aluminium (RAL 7035); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip

/002-000

850-828



Item no.: 850-834

IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20

850-834



Item no.: 850-835

IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip

850-835



Item no.: 850-836

IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip

850-836

sensors



Item no.: 2851-8201

WAGO DALI Multi-Sensor Kit

8201

2851-



Item no.: 2851-8202

DALI sensor coupler

8202

2851-



Item no.: 2851-8301

DALI MSensor 02 5DPI 41rc (Ceiling Installation)

8301

2851-



Item no.: 2851-8302

DALI MSensor 02 5DPI 41W (Box installation)

8302

2851-



Item no.: 2851-8303

DALI MSensor 02 5DPI 41rs (Surface Installation)

8303

2851-

Downloads

Documentation

Manual

DALI Multi-Master Module

V 1.2.0

pdf
3.0 MB

Download

WAGO DALI Configurator

For configuring WAGO 753-647 DALI Multi-Master Modules

V 3.0.0

pdf
3.0 MB

Download

Bid Text

753-647

Apr 5, 2012

doc
31.7 kB

Download

Additional Information

Disposal; Electrical and electronic equipment, Packaging

V 1.0.0

pdf
265.8 kB

Download



Compatibility Information

Compatibility List DALI Sensors	V 1.1.13	pdf	Download
This application note shows all DALI Sensors which are compatible with CODESYS V2.3 applications, e!Cockpit applications, the WAGO Lighting Management software and the WAGO DALI Configurator.		1.3 MB	
		Apr 24, 2019	

System Description

Use in Hazardous Environments	V 1.0.0	pdf	Download
Term definition, marking and installation regulations		1.0 MB	
Overview on WAGO-I/O-SYSTEM 750 approvals		pdf	Download
		780.2 kB	
750/753 Series I/O-System – General Product Information		pdf	Download
		1.7 MB	
Design Notes	V 2.0.0	pdf	Download
Basic conditions and recommendations for higher operational safety		1.5 MB	

Application Notes

Application Note CoDeSys 2.3

Compatibility List DALI Sensors	V 1.1.13	pdf	Download
This application note shows all DALI Sensors which are compatible with CODESYS V2.3 applications, e!Cockpit applications, the WAGO Lighting Management software and the WAGO DALI Configurator.		1.3 MB	
		Apr 24, 2019	

Application note: DALI 753-647 Configuration Interface	V1.0.1	pdf	Download
This application note describes the WAGO DALI Configurator, the integration of the DALI visualization for configuring various sensor types and the implementation in a program.		3.4 MB	
		May 4, 2017	

Application Note ThebenKNX_DALI	Aug 25, 2016	zip	Download
Connecting the Theben thePrema P360 KNX Presence Detector to the WAGO I/O-System		745.2 kB	

Application Note e!COCKPIT

Compatibility List DALI Sensors	V 1.1.13	pdf	Download
This application note shows all DALI Sensors which are compatible with CODESYS V2.3 applications, e!Cockpit applications, the WAGO Lighting Management software and the WAGO DALI Configurator.		1.3 MB	
		Apr 24, 2019	

e!COCKPIT application note WagoAppDALI	V 1.0.0	zip	Download
		2.5 MB	
		Jan 23, 2017	



This application note describes the WAGO DALI Configurator, the integration of the DALI visualization for configuring ECG's and the implementation in an e!COCKPIT application.

Libraries

Library

Bibliotheken für die Gebäudeautomation CODESYS 2.3	Apr 25, 2019	zip 74.2 MB	Download
In dieser Zip-Datei sind WAGO I/O PRO Bibliotheken für die Automation von Gebäuden enthalten. Es sind Bausteine für folgende Applikationen verfügbar: - DALI - DALI Sensoren - DALI Colour Control (Farbsteuerung) - DALI Emergency Lighting - EnOcean - SMI - HLK / HVAC Funktionen - Allgemeine Gebädefunktionen wie Jalousie, Dimmer, Stromstoßschalter - Zeitschaltfunktionen (Scheduler) - KNX Funktionsbausteine - BACnet - WINSTA Jalousiebox - DMX - Wetterstation Elsner - M-Bus, MBus - MP-Bus, MPBus - Romutec Handbedienung - Thermokon Thanos Raumbediengerät - Thermokon WRF06 Raumbediengerät - Thermokon WRF08 Raumbediengerät - 3-Phasen-Leistungsmessklemme 750-493 - LON - Grundfos Pumpen mit GENIbus Interface			

e!COCKPIT libraries

e!COCKPIT library description WagoAppDALI	pdf 1.2 MB	Download
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Engineering-Software

Configuration and Commissioning Software

WAGO DALI Configurator Setup Full Version (753-647)	3.0.0.6 Jun 25, 2014	exe 64.4 MB	Download
The full setup, in addition to the DALI Configurator, includes the installation for the .NET Framework 4.0 and Microsoft Visual C++ 2010 Redistributable Package (x86). This installation is recommended if the DALI Configurator is being installed for the first time.			
WAGO DALI Configurator Setup Small Version (753-647)	3.0.0.6 Jun 25, 2014	exe 7.6 MB	Download
The small setup includes only the DALI Configurator. This installation is recommended for updates or when the software packages contained in the full setup are already installed.			

CAD/CAE - Smart Data

CAD data

3D Download 753-647	URL	Download
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Product family

750/753 Series I/O-System

[Learn more about the product family.](#)

[Show all products from the family](#)



Subject to changes.
