

Part of the WAGO I/O System 750, the 753-620 DALI Multi-Master DC/DC Converter is just 12 mm (½ inch) wide. It supplies power to the 753-647 DALI Multi-Master Module and delivers maximum 200 mA current to operate a single DALI line. The maximum number of slaves depends on the total power consumption of the single DALI devices. The 753-620 DC/DC Converter is supplied via 24 V power jumper contacts. Cable bridges connect the DC/DC Converter to the DALI Multi-Master Module.

Notes	
Note	The 753 Series Plug is included with delivery.

Technical data	
Signal type	Voltage
Signal type (voltage)	18 VDC
Output current (module)	0.2 A
Output current	short-circuit-protected
Output voltage	18 VDC (at +V and -V)
Supply voltage (system)	5 VDC; via data contacts
Total current (system supply)	200 mA
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact); Supply voltage (DALI): 18 VDC; at +U and -U via CAGE CLAMP® connection
Short-circuit-protected	permanent
Test voltage (input/output)	1.5 kV
Number of incoming power jumper contacts	2
Number of outgoing power jumper contacts	2
Current carrying capacity (power jumper contacts)	10 A

Connection data

Connection type 1	Field supply
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 14 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches

Physical data

Width	12 mm / 0.472 inches
Height	100 mm / 3.937 inches
Depth	69.8 mm / 2.748 inches
Depth from upper-edge of DIN-rail	62.6 mm / 2.465 inches

Mechanical Data

Mounting type	DIN-35 rail
Pluggable connector	pluggable

Material Data

Housing material	Polycarbonate; polyamide 6.6
Fire load	1.015 MJ
Weight	55.1 g

Environmental requirements

Ambient temperature (operation)	0 ... +55 °C
Surrounding air temperature (storage)	-25 ... +85 °C
Protection type	IP20
Pollution degree (5)	2 per IEC 61131-2
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Mounting position	horizontal (standing/lying); vertical
Relative humidity (without condensation)	95 %
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
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 (I/O System)
eCl@ss 10.0	27-24-26-08
eCl@ss 9.0	27-24-26-08
ETIM 8.0	EC001604
ETIM 7.0	EC001604
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4050821475729
Customs tariff number	85044083900

Approvals / Certificates

General approvals



EAC Brjansker Zertifizierungs- stelle	TP TC 020/2011	EAC RU C-DE.AM02. B.00087/19
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-SPP750
UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS)	UL 508	E175199 Sec.1

Approvals for marine applications



ABS American Bureau of Ship- ping	-	22-2219060
BSH Bundesamt fuer See- schiffahrt und Hydrogra- phie	-	1104
KR Korean Register of Ship- ping	-	KR HMB05880-AC001
LR Lloyds Register EMEA	-	LR22180952TA
PRS Polski Rejestr Statków	-	TE/2236/880590/19
RINA RINA Germany GmbH	-	ELE343521XG001

Downloads

Environmental Product Compliance

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Compliance 753-620



Documentation

Manual

System Manual WAGO I/O System 750/753	V 3.1.0 05.12.2022	pdf 8495.90 KB	
System Manual Series 750/753			

System Description

750/753 Series I/O- System – General Pro- duct Information	pdf 953.35 KB	
Overview on WAGO-I/ O-SYSTEM 750 appro- vals	pdf 770.48 KB	

Bid Text


753-620	06.10.2017	doc 25.50 KB	
753-620	19.02.2019	xml 4.11 KB	
ausschreiben.de 753-620			


CAD/CAE-Data


CAD data

2D/3D Models 753-620 

CAE data

EPLAN Data Portal 753-620 

WSCAD Universe 753-620 

ZUKEN Portal 753-620 

1 Compatible Products

1.1 Optional Accessories

1.1.1 DIN-rail

1.1.1.1 Mounting accessories

 <p>:210-196 Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored</p>	 <p>:210-198 Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored</p>	 <p>:210-508 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored</p>	 <p>:210-197 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored</p>
 <p>:210-506 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored</p>	 <p>:210-114 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored</p>	 <p>:210-118 Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored</p>	 <p>: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; silver-colored</p>
 <p>: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; silver-colored</p>	 <p>:210-504 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored</p>	 <p>:210-113 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored</p>	 <p>:210-505 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored</p>









1.1.2 Marking

1.1.2.1 Group marker carrier













:750-106
Group marker carrier


1.1.2.2 Marker

 <p>:750-100 Marker card; as a DIN A4 sheet; plain</p>	 <p>:2009-145/000-006 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue</p>	 <p>:2009-145/000-007 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray</p>	 <p>:2009-145/000-023 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green</p>
 <p>:2009-145/000-012 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange</p>	 <p>:2009-145/000-005 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red</p>	 <p>:2009-145/000-024 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet</p>	 <p>:2009-145 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white</p>

1.1.2.2 Marker

 :2009-145/000-002 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow	 :248-501/000-006 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue	 :248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray	 :248-501/000-023 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green
 :248-501/000-017 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green	 :248-501/000-012 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange	 :248-501/000-005 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red	 :248-501/000-024 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet
 :248-501 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	 :248-501/000-002 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow		

1.1.2.3 Marker carrier

 :750-103 Group marker carrier
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1.1.3 Shield termination

1.1.3.1 Shield clamping saddles

 :790-108 Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm	 :790-208 Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm	 :790-116 Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm	 :790-216 Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm
 :790-124 Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm	 :790-220 Shield clamping saddle; 30 mm wide; 6 ... 20 mm	 :790-140 Shield clamping saddle; diameter of compatible conductor	

1.1.4 Supply module

1.1.4.1 Supply module

 :750-612 Power Supply; 0 ... 230 V AC/DC	 :753-612 Power Supply; 0 ... 230 V AC/DC	 :750-602 Power Supply; 24 VDC	 :753-602 Power Supply; 24 VDC
 :750-601 Power Supply; 24 VDC; fuse holder	 :750-610 Power Supply; 24 VDC; fuse holder; Diagnostics		

1.1.5 System enclosure

1.1.5.1 System enclosure



: 850-825
IP65 enclosure; Aluminium (RAL 7032);
WxHxD (160x100x160 mm); 9 x M12, 4 x
M20



: 850-826
IP65 enclosure; Aluminium (RAL 7032);
WxHxD (240x100x160 mm); 4 x M20, 4 x
M16, 14 x M12 cable grip



: 850-827
IP65 enclosure; Aluminium (RAL 7032);
WxHxD (320x100x160 mm); 4 x M20, 8 x
M16, 17 x M12 cable grip



: 850-828
IP65 enclosure; Aluminium (RAL 7032);
WxHxD (480x100x160 mm); 4 x M20, 10 x
M16, 35 x M12 cable grip



: 850-826/002-000
IP65 enclosure; Aluminium (RAL 7035);
WxHxD (240x100x160 mm); 4 x M20, 4 x
M16, 14 x M12 cable grip



: 850-827/002-000
IP65 enclosure; Aluminium (RAL 7035);
WxHxD (320x100x160 mm); 4 x M20, 8 x
M16, 17 x M12 cable grip



: 850-828/002-000
IP65 enclosure; Aluminium (RAL 7035);
WxHxD (480x100x160 mm); 4 x M20, 10 x
M16, 35 x M12 cable grip



: 850-834
IP65 enclosure; Polyester (RAL 7032); Wx-
HxD (164x100x164 mm); 9 x M12, 4 x M20



: 850-835
IP65 enclosure; Polyester (RAL 7032); Wx-
HxD (244x100x164 mm); 4 x M20, 4 x
M16, 14 x M12 cable grip



: 850-836
IP65 enclosure; Polyester (RAL 7032);
WxHxD (324x100x164 mm); 4 x M20, 8 x
M16, 17 x M12 cable grip



: 850-814/002-000
IP65 enclosure; Sheet steel (RAL 7035);
WxHxD (200x120x200 mm); without flan-
ge plate



: 850-815/002-000
IP65 enclosure; Sheet steel (RAL 7035);
WxHxD (300x120x200 mm); without flan-
ge plate



: 850-816/002-000
IP65 enclosure; Sheet steel (RAL 7035);
WxHxD (400x120x200 mm); without flan-
ge plate



: 850-817/002-000
IP65 enclosure; Sheet steel (RAL 7035);
WxHxD (600x120x200 mm); without flan-
ge plate