|: 750-531

4-channel digital output; 24 VDC; 0.5 A; 2-conductor connection

https://www.wago.com/750-531

: ⬜ light gray
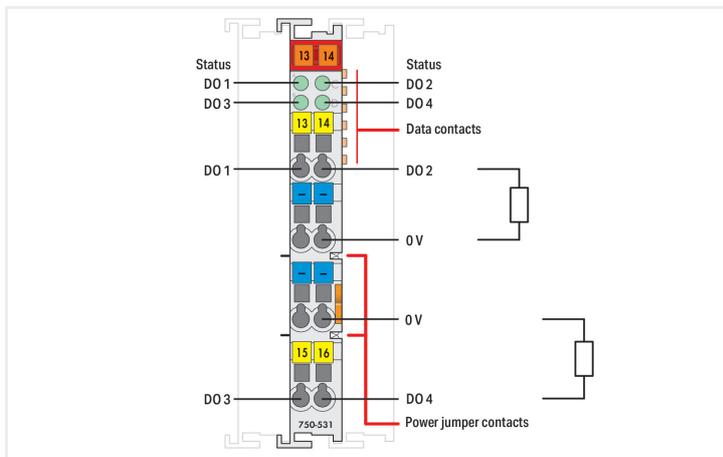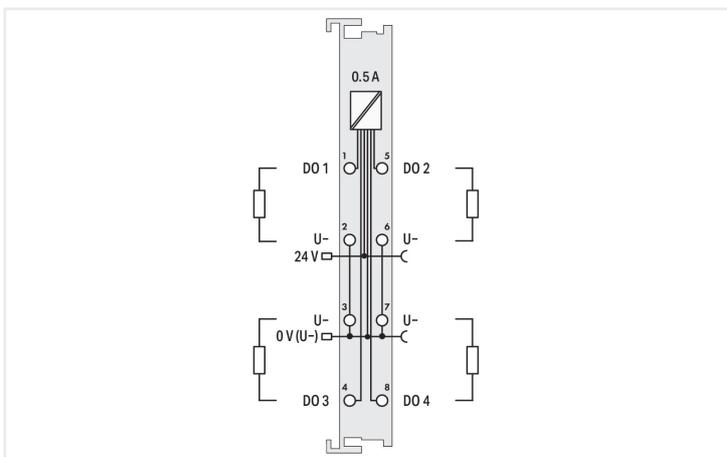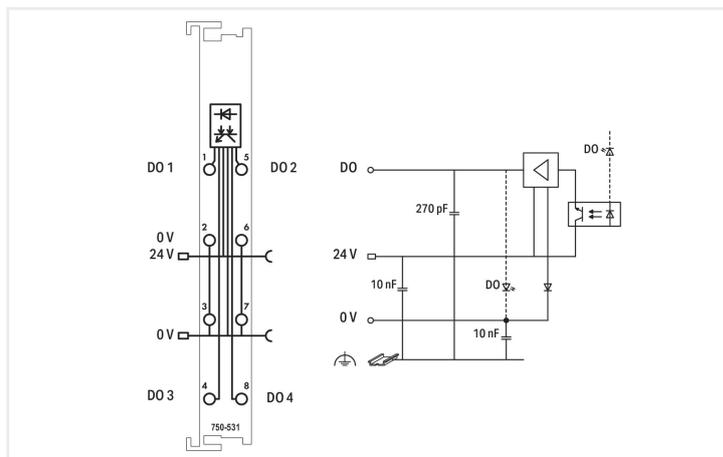
This digital output module transmits control signals from the automation device to the connected actuators.

The module has four output channels and four 0 V outputs, providing a direct connection to four 2-wire actuators.

All outputs are short-circuit-protected.

Field and system levels are electrically isolated.

Technical data

Number of digital outputs	4
Total number of channels (module)	4
Signal type	Voltage
Signal type (voltage)	24 VDC
Actuator connection	4 x (2-wire)
Output characteristic	high-side switching
Output current per channel	0.5 A
Output current	short-circuit-protected
Switching frequency (max.)	1 kHz
Load type	Resistive, inductive, lamp load
Short-circuit current	1.7 A
Reverse voltage protection	Yes
Inductive load switch-off energy dissipation (max.)	0.3 J
Output data width (internal) max.	4 bits
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	10 mA
Supply voltage (field)	24 VDC (-25 … +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact)

Technical data

Current consumption, field supply (module with no external load)	30 mA
Isolation	500 V system/field
Indicators	LED (A-D) green: Status DO 1 … DO 4
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 technology: inputs/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	8 … 9 mm / 0.31 … 0.35 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	fixed

Material data

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	0.988 MJ
Weight	49.4 g
Conformity marking	CE

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
EMC immunity to interference	per EN 61000-6-2, marine applications
EMC emission of interference	per EN 61000-6-4, marine applications
Exposure to pollutants	per IEC 60068-2-42 and IEC 60068-2-43
Permissible H_2S 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)
eCl@ss 10.0	27-24-26-04
eCl@ss 9.0	27-24-26-04
ETIM 8.0	EC001599
ETIM 7.0	EC001599
PU (SPU)	1 Stück
Packaging type	Box
Country of origin VKOrg Germany	DE
GTIN	4045454513733
Customs tariff number VKOrg Germany	85371098990

Approvals and certificates

Ex-Approvals

ATEX TUEV Nord Cert GmbH	EN 60079-0	
CCCEx CQST/CNEx	CNCA-C23-01	2020312310000215 (Ex nA IIC T4 Gc)
EAC Brjansker Zertifizierungs-stelle	TP TC 012/2011	EAC RU C-DE.AM02.B.00163/19 (2Ex nA IIC T4 Gc X)
IECEx TUEV Nord Cert GmbH	IEC 60079-0	IECEx_TUN_14.0035_X (Ex ec IIC T4 Gc)
INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079-0	BR-Ex_TÜV 12.1297 X
UL Underwriters Laboratories Inc. (HAZARDOUS LOCA-TIONS)	UL 121201	E198726 Sec.1

Country specific 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-DOM750

Ship Approvals

ABS American Bureau of Ship-ping	-	22-2219060
BSH Bundesamt fuer See-schifffahrt und Hydrogra-phie	-	1104
BV Bureau Veritas S.A.	-	13453/E0 BV
DNV DNV Germany GmbH	DNV-CG-0339,Aug.2021	TAA0000194
KR Korean Register of Ship-ping	-	KR HMB05880-AC001
LR Lloyds Register EMEA	-	LR22180952TA
PRS Polski Rejestr Statków	-	TE/2236/880590/19

Ship Approvals

RINA RINA Germany GmbH	-	ELE343521XG001

WAGO

UL-Approvals

UL	UL 508	E175199 Sec.1
Underwriters Laboratories Inc. (ORDINARY LOCATIONS)		

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 750-531		↓

Documentation

Manual

4-channel, 24VDC, 0.5A	V 1.3.0	pdf 2347.11 KB	↓
System Manual WAGO I/O System 750 / 753	V 3.1.0 11.05.2022	pdf 8495.90 KB	↓
System Manual Series 750/753			↓

System Description

750/753 Series I/O-System – General Product Information		pdf 953.35 KB	↓
Overview on WAGO-I/O-SYSTEM 750 approvals		pdf 770.48 KB	↓
Use in Hazardous Environments	V 1.0.0	pdf 1007.06 KB	↓

Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 259.56 KB	↓

Bid Text

750-531	11.07.2017	doc 28.50 KB	↓
750-531	19.02.2019	xml 4.23 KB	↓

Application Notes

Application note, other

		pdf 2174.17 KB	↓

WAGO

CAD/CAE-Data

CAD data

2D/3D Models 750-531 ↓

CAE data

EPLAN Data Portal
750-531 ↓

WSCAD Universe
750-531 ↓

ZUKEN Portal 750-531 ↓

Device Files

Device Driver

WAGO USB Service Kabel Treiber / Serie 750 und 857	6.5.3.0 10.09.2014	zip 4721.96 KB	↓

1 Compatible products

1.1 Optional accessories

1.1.1 DIN-rail

1.1.1.1 Mounting accessories

: 210-196
Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

: 210-198
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

: 210-508
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored

: 210-197
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored

: 210-506
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored

: 210-114
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; similar to EN 60715; silver-colored

: 210-118
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

: 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

: 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

: 210-504
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored

: 210-113
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

: 210-505
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

1.1.2 Marking

1.1.2.1 Group marker carrier

: 750-106
Group marker carrier

1.1.2.2 Marker

: 750-100
Marker card; as a DIN A4 sheet; plain

: 2009-145/000-006
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

: 2009-145/000-007
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

: 2009-145/000-023
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

: 2009-145/000-012
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

: 2009-145/000-005
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

: 2009-145/000-024
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

: 2009-145
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

: 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

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

1.1.5 System enclosure

1.1.5.1 System enclosure

: 850-825	: 850-826	: 850-827	: 850-828
IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20	IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip	IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip	IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip

: 850-826/002-000	: 850-827/002-000	: 850-828/002-000	: 850-834
IP65 enclosure; Aluminium (RAL 7035); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip	IP65 enclosure; Aluminium (RAL 7035); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip	IP65 enclosure; Aluminium (RAL 7035); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip	IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20

: 850-835	: 850-836	: 850-814/002-000	: 850-815/002-000
IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip	IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip	IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate	IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate

: 850-816/002-000	: 850-817/002-000
IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate	IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate

Änderungen vorbehalten. Bitte beachten Sie auch die weitere Produktdokumentation!

Adressen finden Sie unter: www.wago.com