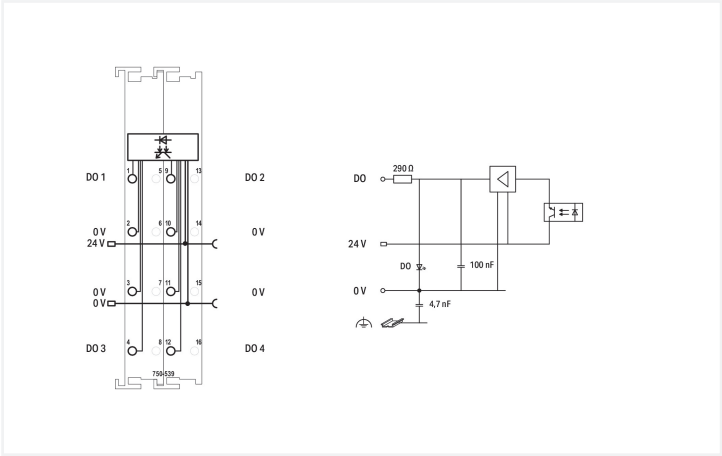
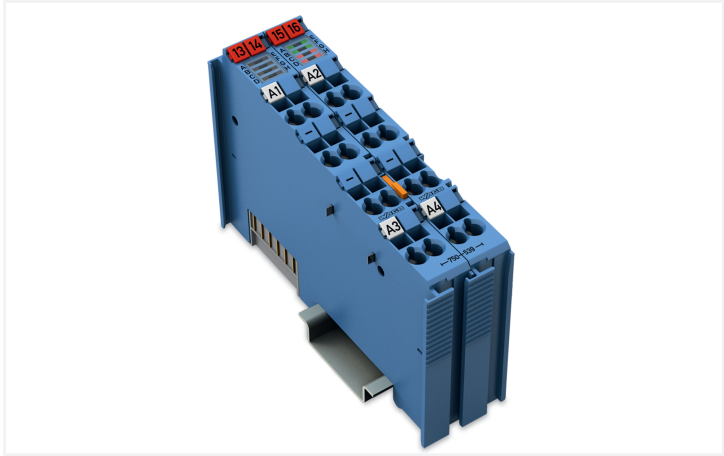
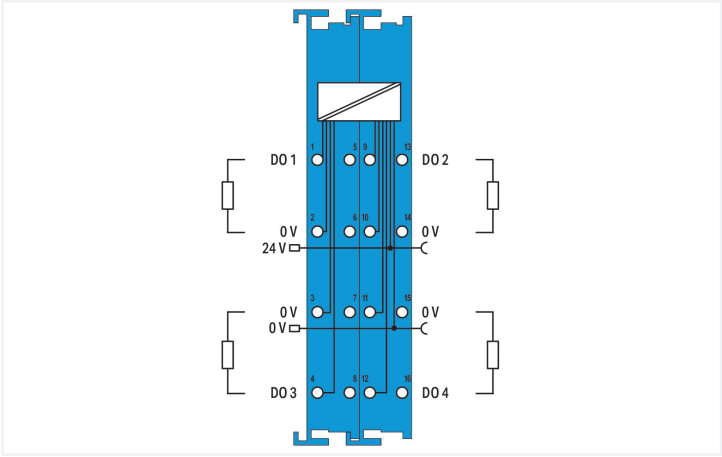
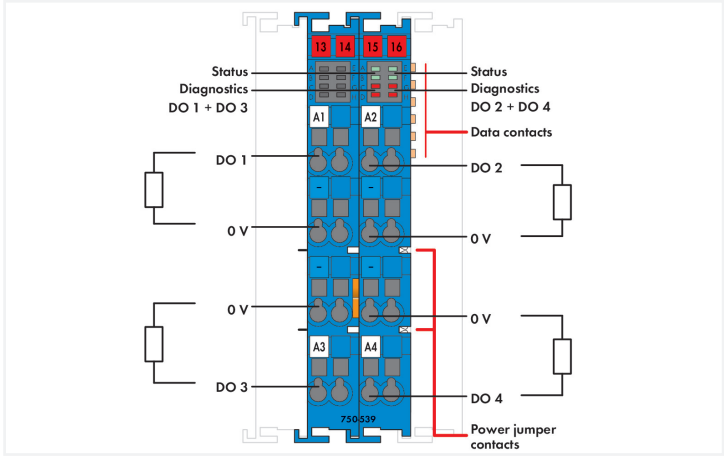




Color: ■ light blue



This digital output module controls actuators operating in Zone 0+1 hazardous areas.
Intrinsically safe valves can be directly controlled.
The WAGO I/O System 750/753 must be installed either in Zone 2 or in a non-hazardous area.
All outputs are electronically short-circuit-protected.
Indicators:

- Green LED (output status)
- Red LED (wire breakage, short circuit)

Field and system levels are electrically isolated.

Notes	
Note	The digital output module must only be operated via 24 VDC Ex i! General information on explosion protection, including installation regulations, can be found in the WAGO I/O System 750/753 manuals!



Technical data	
Item description	4-Channel Digital Output; 24 VDC; Valve
Number of digital outputs	4
Total number of channels (module)	4
Signal type	Digital
Signal type (voltage)	24 VDC
Actuator connection	4 x (2-wire)
Output current per channel	0.047 A
Output characteristic	high-side switching
Switching frequency (max.)	100 Hz
Load type	Resistive, inductive, lamp load
Internal resistance R _i	290 Ω
Intrinsically safe Ex i	Yes
Input data width (internal) max.	4 bits
Output data width (internal) max.	4 bits
Supply voltage (system)	5 VDC; via data contacts
Current consumption (system supply)	20 mA
Supply voltage (field)	24 VDC; (Ex i power supply: U _o = max. 26.8 V); via power jumper contacts (supply via blade contact; distribution via spring contact)
Current consumption, field supply (module with no external load)	10 mA
Power consumption P _{max.}	4.86 W (at 47 mA output current)
Power loss P _i	2.86 W (at 47 mA output current)
Isolation	UM = 375 V system/supply
Number of incoming power jumper contacts	2
Number of outgoing power jumper contacts	2
Current carrying capacity (power jumper contacts)	1 A
Indicators	LED (A, B, E, F) green: Status DO 1 ... DO 4; LED (C, D, G, H) red: Diagnostics DO 1 ... DO 4

Explosion protection	
Identification	ATEX: II 3 (1) G Ex ec [ia Ga] IIC T4 Gc; II (1) D [Ex ia Da] IIIC; I (M1) [Ex ia Ma] I IECEX/INMETRO: Ex ec [ia Ga] IIC T4 Gc; [Ex ia Da] IIIC; [Ex ia Ma] I
Ex standard	EN IEC 60079-0, -7, -11
Safety-relevant data (circuit)	U _o = 26.8 V; I _o = 115.3 mA; P _o = 772 mW; linear characteristic curve
Reactances Ex ia IIC	L _o = 2.67 µH; C _o = 92 nF
Reactances Ex ia IIB	L _o = 10.69 mH; C _o = 720 nF
Reactances Ex ia IIA	L _o = 21.39 mH; C _o = 2.37 µF
Reactances Ex ia I	L _o = 35.1 mH; C _o = 4.2 µF
Reactances (note)	Reactances without accounting for the concurrence of capacitance (C _o) and inductance (L _o)

Connection Data	
Connection technology: I/O	8 x CAGE CLAMP®
Connectable conductor materials	Copper
Connection type	Inputs/outputs
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	8 ... 9 mm / 0.31 ... 0.35 inches



Physical data		
Width		24 mm / 0.945 inches
Height		100 mm / 3.937 inches
Depth		67.8 mm / 2.669 inches
Depth from upper-edge of DIN-rail		60.6 mm / 2.386 inches

Mechanical data		
Mounting type		DIN-35 rail

Material data		
Color		light blue
Housing material		Polycarbonate; polyamide 6.6
Fire load		1.692 MJ
Weight		88.5 g
Conformity marking		CE

Environmental requirements		
Ambient temperature (operation)		0 ... +55 °C
Ambient temperature (storage)		-25 ... +85 °C
Protection type		IP20
Pollution degree		2 per IEC 61131-2
Operating altitude		0 ... 2000 m / 0 ... 6562 ft
Mounting position		Horizontal left, horizontal right, horizontal top, horizontal bottom, vertical top and vertical bottom
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 61000-6-3, marine applications
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		
PU (SPU)		1 pcs
Packaging type		Box
Country of origin		DE
GTIN		4055143514149
Customs tariff number		85371098990

Product Classification		
UNSPSC		32151705
eCl@ss 10.0		27-24-26-04
eCl@ss 9.0		27-24-26-04
ETIM 9.0		EC001599
ETIM 10.0		EC001599
ECCN		NO US CLASSIFICATION



Environmental Product Compliance	
CAS-No.	1303-86-2 1317-36-8 7439-92-1
REACH Candidate List Substance	Diboron trioxide Lead Lead monoxide
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	e34a3d4a-a1fb-40f8-bb5b-54bf7c28fdaa
SCIP notification number (Belgium)	2ce8ca47-89a4-4c43-9427-dd8fe99d3e7b
SCIP notification number (Bulgaria)	75528983-07fe-4087-af2d-af7edf979c73
SCIP notification number (Czech Republic)	f9fb62b0-c110-4b20-b537-5f7510b2a650
SCIP notification number (Denmark)	64b48830-f285-4cef-aac8-318ab049c8ef
SCIP notification number (Finland)	d21d7caf-d593-4078-a77f-144b060c5b80
SCIP notification number (France)	8b7b3506-826e-4320-9f88-d4aca5af520d
SCIP notification number (Germany)	8ec2c402-dd38-40d4-a575-630c5dcb958a
SCIP notification number (Hungary)	441ec9b2-f306-4c04-afe9-d73926e312af
SCIP notification number (Italy)	74e79e14-0ac4-47f2-8486-55872426dabd
SCIP notification number (Netherlands)	74678b8e-c44c-499b-a41f-66be291f6a26
SCIP notification number (Poland)	7afc2831-b145-414f-83b7-93c174189b9a
SCIP notification number (Romania)	470ef858-fac1-4205-8178-bee373f05ff7
SCIP notification number (Sweden)	3528ae04-7447-476d-a23d-783b22d2f64a

Approvals / Certificates

General approvals		Declarations of conformity and manufacturer's declarations
  		
Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-DOM750
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	-	E175199
Approval	Standard	Certificate Name
EU-Ex-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Ex-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications		Approvals for marine applications
     		
Approval	Standard	Certificate Name
ABS American Bureau of Shipping	-	25-0415412
DNV DNV GL SE	DNV-CG-0339,Aug.2021	TAA0000194
KR Korean Register of Shipping	-	KR HMB05880-AC001
LR Lloyds Register EMEA	-	LR22180952TA
PRS Polski Rejestr Statków	-	TE/1101/880590/23
RINA RINA Germany GmbH	-	ELE343521XG001



Approvals for hazardous areas





Approval	Standard	Certificate Name
ATEX TUEV Nord Cert GmbH	EN 60079	TUEV12ATEX106032X (Ex ec[iaGa] IIC T4 Gc, [Ex iaDa] IIIC, [Ex iaMa] I)
CCC CNEC	CNCA-C23-01	2020312310000211 (Ex ec [iaGa] IIC T4 Gc, [Ex iaDa] II-IC, [Ex iaMa] I)
IECEX TUEV Nord Cert GmbH	IEC 60079	IECEX TUN12.0039X (Ex ec [iaGa] IIC T4 Gc, [Ex iaDa] II-IC, [Ex iaMa] I)
INMETRO TÜV Rheinland do Brasil Ltda.	-	TÜV_14.1911_X
KTL Korea Testing Laboratory	KOSHA Article 34, IEC60079-0	21-KA4BO-0560X
UKEx Element Materials Technology UK	-	EMA21UKEX0069X
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726

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Environmental Product Compliance

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Documentation

Manual
Product Manual 4-Channel, 24 VDC, VALVE Ex i 2485615371 3 en-US 2025-09-11 11:33 14.11.2025 pdf 2999.10 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 
Ex i Overview pdf 442.07 KB 

Bid Text
750-539 19.02.2019 xml 5.84 KB 
750-539 06.10.2017 doc 31.50 KB 

Instruction Leaflet
CCC Ex (Additional information) 26.04.2023 pdf 143.96 KB 



CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 750-539 	EPLAN Data Portal 750-539 
	WSCAD Universe 750-539 
	ZUKEN Portal 750-539 

1 Compatible Products

1.1 Optional Accessories

1.1.1 DIN-rail

1.1.1.1 Mounting accessories

 Item No.: 210-196 Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslopped; similar to EN 60715; silver-colored	 Item No.: 210-198 Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslopped; according to EN 60715; copper-colored	 Item No.: 210-197 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slopped; similar to EN 60715; silver-colored	 Item No.: 210-114 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslopped; similar to EN 60715; silver-colored
 Item No.: 210-118 Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslopped; according to EN 60715; silver-colored	 Item No.: 210-115 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slopped; according to EN 60715; "Hole width 18 mm; silver-colored	 Item No.: 210-112 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slopped; according to EN 60715; "Hole width 25 mm; silver-colored	 Item No.: 210-113 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslopped; according to EN 60715; silver-colored

1.1.2 Marking

1.1.2.1 Group marker carrier

 Item No.: 750-107 Group marker carrier

1.1.2.2 Marker

 Item No.: 2009-145/000-006 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue	 Item No.: 2009-145/000-007 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray	 Item No.: 2009-145/000-023 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green	 Item No.: 2009-145/000-012 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange
 Item No.: 2009-145/000-005 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red	 Item No.: 2009-145/000-024 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet	 Item No.: 2009-145 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	 Item No.: 2009-145/000-002 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow
 Item No.: 248-501/000-006 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue	 Item No.: 248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray	 Item No.: 248-501/000-023 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green	 Item No.: 248-501/000-017 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green



1.1.2.2 Marker



Item No.: 248-501/000-012
Mini-WSB marking card; as card; not stretch-able; plain; snap-on type; orange



Item No.: 248-501/000-005
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red



Item No.: 248-501/000-024
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet



Item No.: 248-501
Mini-WSB marking card; as card; not stretch-able; plain; snap-on type; white



Item No.: 248-501/000-002
Mini-WSB marking card; as card; not stretch-able; plain; snap-on type; yellow

1.1.2.3 Marker carrier



Item No.: 750-103
Group marker carrier

1.1.3 Shield termination

1.1.3.1 Shield clamping saddles



Item No.: 790-108
Shield clamping saddle; 11 mm wide; diam-eter of compatible conductor; 3 ... 8 mm



Item No.: 790-208
Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm



Item No.: 790-116
Shield clamping saddle; 19 mm wide; diam-eter of compatible conductor; 7 ... 16 mm



Item No.: 790-216
Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm



Item No.: 790-124
Shield clamping saddle; 27 mm wide; diam-eter of compatible conductor; 6 ... 24 mm



Item No.: 790-220
Shield clamping saddle; 30 mm wide; 6 ... 20 mm



Item No.: 790-140
Shield clamping saddle; diameter of compat-ible conductor

1.1.4 Supply module

1.1.4.1 Supply module



Item No.: 750-606
Power Supply; 24 VDC; Diagnostics; Intrinsi-cally safe



Item No.: 750-625/000-001
Power Supply; 24 VDC; Intrinsically safe