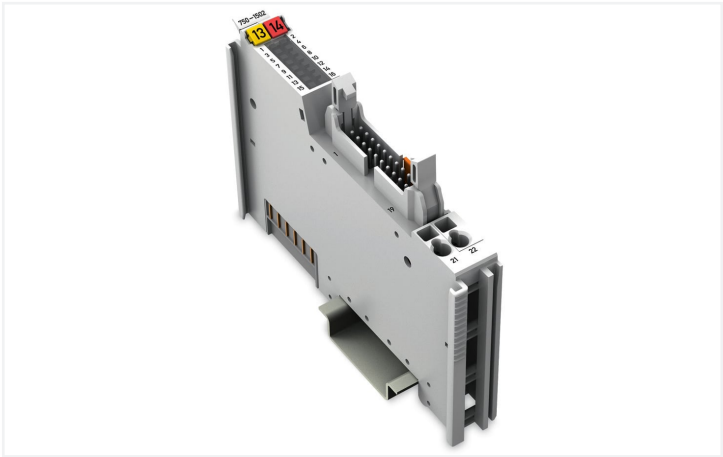
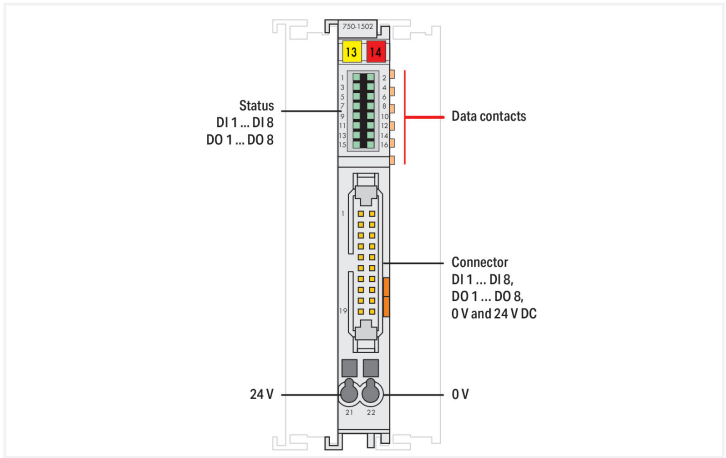
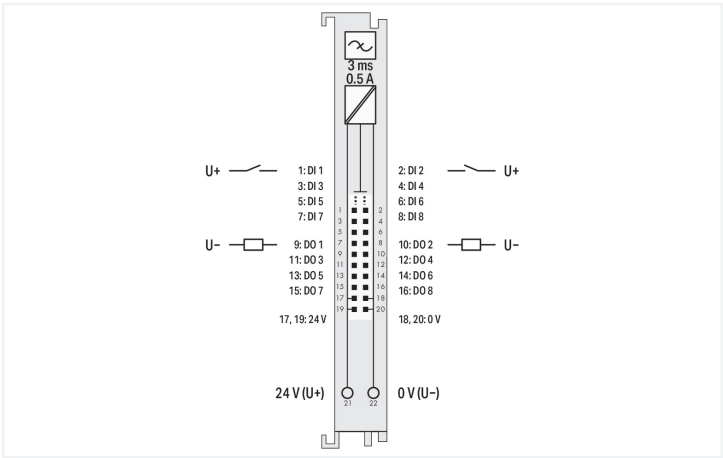
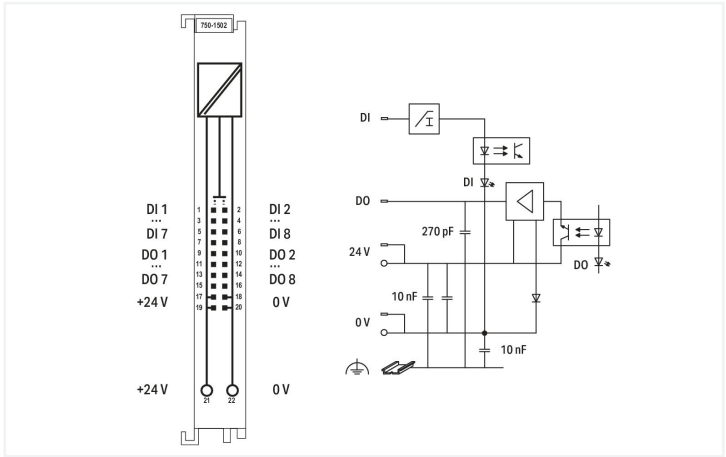




Color: ■ light gray



This digital input/output module features eight inputs and eight outputs in a width of just 12 mm (0.47 inch). It receives binary control signals from digital field devices and transmits them to the connected actuators (e.g., magnetic valves, contactors, transmitters, relays or other electrical loads). The module connects to electronic modules via a 20-pole ribbon cable. The 24 V power is fed to the electronic modules via two CAGE CLAMP® connectors. A green LED indicates the signal state of each channel. Field and system levels are electrically isolated.

Technical data	
Number of digital inputs	8
Number of digital outputs	8
Total number of channels (module)	16
Signal type	Digital
Signal type (voltage)	24 VDC
Sensor supply	DC 24 V
Sensor connection	8 x (1-wire)
Actuator connection	8 x (1-wire)
Input characteristic	high-side switching
Input filter (digital)	3 ms
Input current per channel for signal (0) typ.	0.6 mA
Input current per channel for signal (1) typ.	2.4 mA
Input current per channel for signal (1) min.	2.2 mA
Input current per channel for signal (1) max.	2.5 mA
Output characteristic	high-side switching
Output current per channel	0.5 A



Technical data		
Output current		short-circuit-protected
Switching frequency (max.)		1 kHz
Load type		Resistive, inductive, lamp load
Voltage range for signal (0)		-3 ... +5 VDC
Voltage range for signal (1)		15 ... 30 VDC
Input data width (internal) max.		8 bits
Output data width (internal) max.		8 bits
Supply voltage (system)		5 VDC; via data contacts
Current consumption (5 V system supply)		30 mA
Supply voltage (field)		24 VDC (-25 ... +30 %); via pluggable connector (CAGE CLAMP® connection)
Current consumption, field supply (module with no external load)		16 mA
Isolation		500 V system/field
Indicators		LED (1-8) green: Status DI 1 ... DI 8; LED (9-16) green: Status DO 1 ... DO 8

Connection data		
Connection technology: inputs/outputs		1 x DIN 41651 connector; male connector (20-pole) (inputs/outputs)
Connection technology: field supply		2 x CAGE CLAMP®
Connection type 1		Inputs/outputs
Connection type 2		Field supply
Solid conductor 2		0.08 ... 2.5 mm² / 28 ... 14 AWG
Fine-stranded conductor 2		0.08 ... 2.5 mm² / 28 ... 14 AWG
Strip length 2		8 ... 9 mm / 0.31 ... 0.35 inches

Physical data		
Width		12 mm / 0.472 inches
Height		100 mm / 3.937 inches
Depth		74.1 mm / 2.917 inches
Depth from upper-edge of DIN-rail		66.9 mm / 2.634 inches

Mechanical data		
Mounting type		DIN-35 rail
Pluggable connector		fixed

Material data		
Color		light gray
Housing material		Polycarbonate; polyamide 6.6
Fire load		0.776 MJ
Weight		58 g
Conformity marking		CE

Environmental requirements		
Ambient temperature (operation)		0 ... +55 °C
Ambient temperature (storage)		-40 ... +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 up, horizontal down, 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



Environmental requirements	
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	
Product Group	15 (I/O System)
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 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454898281
Customs tariff number	85371098990

Environmental Product Compliance	
CAS-No.	1303-86-2 1317-36-8 7439-92-1 75980-60-8
REACH Candidate List Substance	Diboron trioxide Lead Lead monoxide Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	7(a) 7(c)-I
SCIP notification number (Austria)	4605acb2-450c-4c07-8ece-f4d95742695e
SCIP notification number (Belgium)	3c7585a5-f75a-45d1-aba6-febebe5120f4
SCIP notification number (Bulgaria)	53992200-e075-49ce-b7af-ca9c455f4bb5
SCIP notification number (Czech Republic)	2ddaacbe-6f3e-49cb-b2ad-3d6423a9b6c3
SCIP notification number (Denmark)	67ee0302-f41d-48a2-85e0-cbf9ae0a3652
SCIP notification number (Finland)	8a6f7606-389c-4073-ba7b-d9353c81c969
SCIP notification number (France)	7f9022af-6e72-431d-9323-812ab6f6dfcc
SCIP notification number (Germany)	0a3ee4c1-1384-4813-a10c-afd7b7d4dbb4
SCIP notification number (Hungary)	e0df0425-396d-4b87-afd4-cb4a3b720faa
SCIP notification number (Italy)	8f12bc26-61db-4be3-a532-2cd88bbd45af
SCIP notification number (Netherlands)	0469064e-df86-4e9e-8a52-554b951ddf48
SCIP notification number (Poland)	00e4f2bc-6e4f-4abd-b588-4b0a5b781f1d
SCIP notification number (Romania)	c5575f31-dd04-40af-96dd-d6d910fbd19c
SCIP notification number (Sweden)	467f02e4-6dff-4450-8c6d-552fab92a82f



Approvals / Certificates

General approvals



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-DI0750
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Shipping	-	22-2219060
BSH Bundesamt fuer Seeschifffahrt und Hydrographie	-	1104
BV Bureau Veritas S.A.	-	30389/C0 BV
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 60079-0	TUEV14ATEX148929X (II 3 G Ex ec IIC T4 Gc)
CCCEX CQST/CNEx	CNCA-C23-01	2020312310000213 (Ex ec IIC T4 Gc)
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	TÜV 12.1297 X
UKEx WAGO GmbH & Co. KG	EN 60079-0	UKCA_WA GO22UKEX003X_ec
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 750-1502





Documentation				
Manual			System Description	
Product Manual 8-channel DI/DO, 24VDC	V 1.1.0	pdf 2239.71 KB	750/753 Series I/O-System – General Product Information	pdf 953.35 KB
System Manual Series 750/753			Overview on WAGO-I/O-SYSTEM 750 approvals	pdf 770.48 KB

Bid Text			Instruction Leaflet	
750-1502	19.02.2019	xml 4.95 KB	CCC Ex (Additional information)	26.04.2023 pdf 159.76 KB
750-1502	26.11.2018	docx 16.02 KB		

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 750-1502	EPLAN Data Portal 750-1502
	WSCAD Universe 750-1502
	ZUKEN Portal 750-1502

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 Cables and connectors			
1.1.1.1 System cable			



Item No.: 706-7753/306-100
System cable; for WAGO-I/O-SYSTEM, 750 Series; 2x 8 digital inputs or outputs; Length: 1 m; Conductor cross-section: 0.14 mm²



Item No.: 706-7753/306-200
System cable; for WAGO-I/O-SYSTEM, 750 Series; 2x 8 digital inputs or outputs; Length: 2 m; Conductor cross-section: 0.14 mm²



Item No.: 706-7753/306-300
System cable; for WAGO-I/O-SYSTEM, 750 Series; 2x 8 digital inputs or outputs; Length: 3 m; Conductor cross-section: 0.14 mm²



Item No.: 706-7753/302-100
System cable; for WAGO-I/O-SYSTEM, 750 Series; 8 digital inputs and 8 digital outputs; Length: 1 m; Conductor cross-section: 0.14 mm²



Item No.: 706-7753/302-200
System cable; for WAGO-I/O-SYSTEM, 750 Series; 8 digital inputs and 8 digital outputs; Length: 2 m; Conductor cross-section: 0.14 mm²



1.1.2 DIN-rail

1.1.2.1 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.: 210-508
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slopped; galvanized; similar to EN 60715; silver-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.: 210-506
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslopped; galvanized; 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.: 210-504
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slopped; galvanized; according to EN 60715; 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



Item No.: 210-505
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslopped; galvanized; according to EN 60715; silver-colored

1.1.3 Interface module

1.1.3.1 Interface adapters



Item No.: 857-981
Interface adapter; 14-pole; High-side switching input



Item No.: 857-986
Interface adapter; 15-pole; High-side switching input

1.1.3.2 Interface module



Item No.: 704-2003
Interface module for system wiring; Plug-gable connector per DIN 41651; Male connector; 10-pole; 8-channel digital input or output; 3-wire connection; in mounting carrier



Item No.: 704-5003
Interface module for system wiring; Plug-gable connector per DIN 41651; Male connector; 10-pole; 8-channel relay output; 1 changeover contact; Triple-deck PCB terminal blocks; in mounting carrier; 2,50 mm²



Item No.: 704-5013
Interface module for system wiring; Plug-gable connector per DIN 41651; Male connector; 10-pole; 8-channel relay output; 1 changeover contact; Triple-deck PCB terminal blocks; with manual operation; in mounting carrier; 2,50 mm²



Item No.: 289-611
Interface module; Pluggable connector per DIN 41651; 10-pole; Triple-deck PCB terminal blocks; in mounting carrier; 2,50 mm²

1.1.4 Marking

1.1.4.1 Group marker carrier



Item No.: 750-107
Group marker carrier



1.1.4.2 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
Item No.: 248-501/000-012 Mini-WSB marking card; as card; not stretchable; 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 stretchable; plain; snap-on type; white
Item No.: 248-501/000-002 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow			

1.1.4.3 Marker carrier

Item No.: 750-103 Group marker carrier
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1.1.5 Shield termination

1.1.5.1 Shield clamping saddles

Item No.: 790-108 Shield clamping saddle; 11 mm wide; diameter 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; diameter 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; diameter 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 compatible conductor	



1.1.6 System enclosure

1.1.6.1 System enclosure



Item No.: 850-825
IP65 enclosure; Aluminium (RAL 7032);
WxHxD (160x100x160 mm); 9 x M12, 4 x
M20



Item No.: 850-826
IP65 enclosure; Aluminium (RAL 7032);
WxHxD (240x100x160 mm); 4 x M20, 4 x
M16, 14 x M12 cable grip



Item No.: 850-827
IP65 enclosure; Aluminium (RAL 7032);
WxHxD (320x100x160 mm); 4 x M20, 8 x
M16, 17 x M12 cable grip



Item No.: 850-828
IP65 enclosure; Aluminium (RAL 7032);
WxHxD (480x100x160 mm); 4 x M20, 10 x
M16, 35 x M12 cable grip



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



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



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



Item No.: 850-834
IP65 enclosure; Polyester (RAL 7032); Wx-
HxD (164x100x164 mm); 9 x M12, 4 x M20



Item No.: 850-835
IP65 enclosure; Polyester (RAL 7032); Wx-
HxD (244x100x164 mm); 4 x M20, 4 x
M16, 14 x M12 cable grip



Item No.: 850-836
IP65 enclosure; Polyester (RAL 7032);
WxHxD (324x100x164 mm); 4 x M20, 8 x
M16, 17 x M12 cable grip



Item No.: 850-814/002-000
IP65 enclosure; Sheet steel (RAL 7035);
WxHxD (200x120x200 mm); without flan-
ge plate



Item No.: 850-815/002-000
IP65 enclosure; Sheet steel (RAL 7035);
WxHxD (300x120x200 mm); without flan-
ge plate



Item No.: 850-816/002-000
IP65 enclosure; Sheet steel (RAL 7035);
WxHxD (400x120x200 mm); without flan-
ge plate



Item No.: 850-817/002-000
IP65 enclosure; Sheet steel (RAL 7035);
WxHxD (600x120x200 mm); without flan-
ge plate