

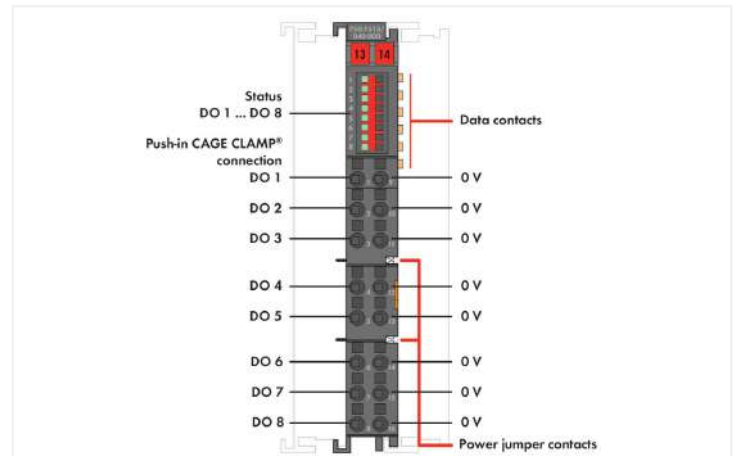
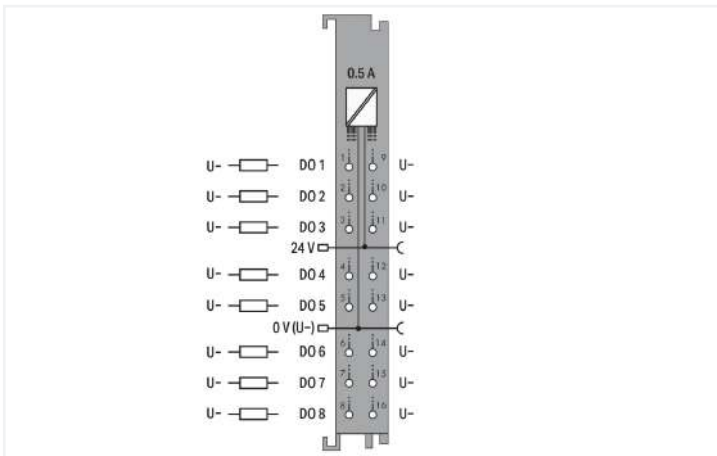
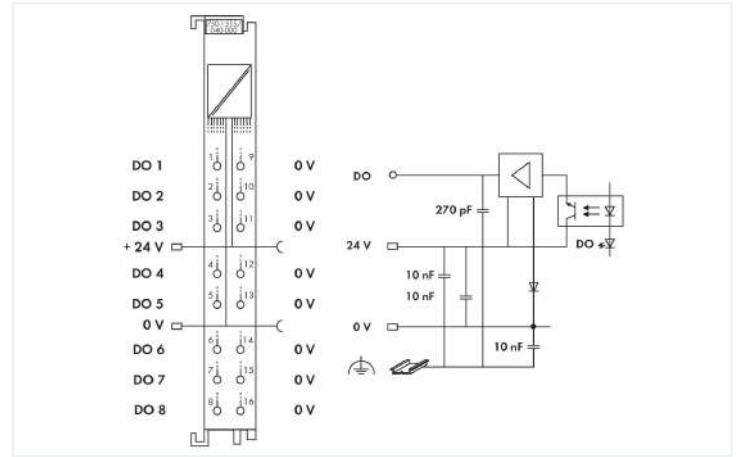
Data Sheet | Item Number: 750-1515/040-000

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

<https://www.wago.com/750-1515/040-000>



Color: ■ dark gray



This digital output module is a 2-wire device featuring eight channels in a width of just 12 mm (0.47 inch).

It transmits binary control signals from the automation device to the connected actuators (e.g., magnetic valves, contactors, transmitters, relays or other electrical loads).

The module features Push-in CAGE CLAMP® connections enabling solid conductors to be connected by simply pushing them in.

A green LED indicates the signal state of each channel.

Field and system levels are electrically isolated.

An operating tool with a 2.5 mm blade (210-719) is required to open the Push-in CAGE CLAMP® connections.

The device is ideal for operation in extreme environments thanks to:

- An extended temperature range
- Greater immunity to impulse voltages and electromagnetic interference
- Higher vibration and shock resistance

Technical data

| | |
|-----------------------------------|---------------------------------|
| Number of digital outputs | 8 |
| Total number of channels (module) | 8 |
| Signal type | Digital |
| Signal type (voltage) | 24 VDC |
| Actuator connection | 8 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 |
| Output data width (internal) max. | 8 bits |
| Supply voltage (system) | 5 VDC; via data contacts |

Technical data

| | |
|--|---|
| Current consumption (5 V system supply) | 20 mA |
| Supply voltage (field) | 24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact); Derating must be observed! |
| Current consumption, field supply (module with no external load) | 15 mA |
| Dielectric strength | 510°VAC / 775°VDC; per EN°60870-2-1 |
| Interference-free with safety function | Yes |
| Rated surge voltage | 1 kV |
| Indicators | LED (1-8) green: Status DO 1 ... DO 8 |
| Number of incoming power jumper contacts | 2 |
| Number of outgoing power jumper contacts | 2 |
| Current carrying capacity (power jumper contacts) | 10 A |
| Derating | Derating (supply voltage): Ambient temperatures under laboratory conditions: (-25 ... +30°%); for -40 ... +55°%C: 24°V (-25 ... +20°%); for +55 ... +70°%C: 24°V (-25 ... +10°%); Lower limit in all temperature ranges: -27.5°% (including 15°% residual ripple) |

Connection data

| | |
|---------------------------------------|------------------------------------|
| Connection technology: inputs/outputs | 16 x Push-in CAGE CLAMP® (outputs) |
| Connection type 1 | Output |
| Solid conductor | 0.25 ... 1.5 mm² / 24 ... 16 AWG |
| Fine-stranded conductor | 0.25 ... 1.5 mm² / 24 ... 16 AWG |
| Strip length | 8 ... 9 mm / 0.31 ... 0.35 inches |

Physical data

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

Mechanical data

| | |
|---------------|-------------|
| Mounting type | DIN-35 rail |
|---------------|-------------|

Material data

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|--------------------|------------------------------|
| Color | dark gray |
| Housing material | Polycarbonate; polyamide 6.6 |
| Fire load | 0.835 MJ |
| Weight | 48 g |
| Conformity marking | CE |

Environmental requirements

| | |
|--|--|
| Ambient temperature (operation) | -40 ... +70 °C |
| Ambient temperature (storage) | -40 ... +85 °C |
| Protection type | IP20 |
| Pollution degree | 2 per IEC 61131-2 |
| Operating altitude | without temperature derating: 0 ... 2000 m; with temperature derating: 2000 ... 5000 m (0.5 K/100 m); 5000 m (max.) |
| Mounting position | horizontal (standing/lying); vertical |
| Relative humidity (without condensation) | 95 % |
| Relative humidity (with condensation) | Short-term condensation per Class 3K7/IEC EN 60721-3-3 and E-DIN 40046-721-3 (except for wind-driven precipitation, water and ice formation) |
| Vibration resistance | per IEC 60068-2-6 (acceleration: 5g), EN 60870-2-2, IEC 60721-3-1, -3, EN 50155; EN 61373 |

Environmental requirements

| | |
|--|--|
| Shock resistance | per IEC 60068-2-27 (15g/11 ms/half-sine/1,000 shocks; 25g/6 ms/1,000 shocks), EN 50155, EN 61373 |
| EMC immunity to interference | per EN 61000-6-1, -2; EN 61131-2; marine applications; EN 50121-3-2; EN 50121-4, -5; EN 60255-26; EN 60870-2-1; EN 61850-3; IEC 61000-6-5; IEEE 1613; VDEW: 1994 |
| EMC emission of interference | per EN 61000-6-3, -4, EN 61131-2, EN 60255-26, marine applications, EN 60870-2-1, EN 61850-3, EN 50121-3-2, EN 50121-4, -5 |
| 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 | 4050821460237 |
| Customs tariff number | 85371098990 |

Environmental Product Compliance

| | |
|---|---|
| CAS-No. | 1303-86-2 1317-36-8 7439-92-1 |
| REACH Candidate List Substance | Diboron trioxide Lead Lead monoxide Perfluorobutane sulfonic acid (PFBS) and its salts |
| RoHS Compliance Status | Compliant,With Exemption |
| RoHS Exemption | 6(c) 7(a) 7(c)-I 7(c)-II |
| SCIP notification number (Austria) | b54d674c-cef7-4c44-b444-2cba70498952 |
| SCIP notification number (Belgium) | df1a369c-9b86-4394-a4b3-85dc01297cee |
| SCIP notification number (Bulgaria) | 60cef615-98f9-4a81-9a41-3d766f6b5b96 |
| SCIP notification number (Czech Republic) | 393db3bd-edb2-403a-a804-9265c81eed94 |
| SCIP notification number (Denmark) | 42472d4e-4450-42f2-b8a4-038d0bda1507 |
| SCIP notification number (Finland) | 3685ef42-c847-4744-bf37-e71143ec6f58 |
| SCIP notification number (France) | b68573c6-fa7a-4fe2-80f0-e4fc7d2bd6d7 |
| SCIP notification number (Germany) | 56bbfed9-abc5-4975-b0d0-9b54122ed51e |
| SCIP notification number (Hungary) | 50f642f7-3c37-409a-936c-eb8362b16405 |
| SCIP notification number (Italy) | dcb3276d-70fc-49ea-bfa2-596fa256cd44 |
| SCIP notification number (Netherlands) | c9b22398-dbb2-4e4a-b9d9-4f1dd9b09e54 |
| SCIP notification number (Poland) | 5e860dea-9c7c-4524-88b8-481689aa1fc2 |
| SCIP notification number (Romania) | d6ff72af-9f1b-4039-9e79-536d572c715e |
| SCIP notification number (Sweden) | 943e7d2a-6278-46c4-9076-58a9b0c05871 |

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-DOM750 |
| UL UL International Netherlands B.V. (ORDINARY LOCATIONS) | UL 508 | E175199 Sec.1 |

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 | - | 22-2208829-PDA |
| LR Lloyds Register | - | LR22276776TA |
| PRS Polski Rejestr Statków | - | TE/1099/880590/23 |

Approvals for hazardous areas



Approval Standard Certificate Name

ATEX
TUEV Nord Cert GmbH

CCC
CNEX

IECEX
TUEV Nord Cert GmbH

UKEx
WAGO GmbH & Co. KG

UL
Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance
750-1515/040-000



Documentation

Manual

Product Manual 8DO 24 V DC 0.5 A, 2-wire connection /XTR V 1.3.0 21.08.2019 pdf 2998.58 KB

System Description

Overview on WAGO-I/O-SYSTEM 750 approvals pdf 770.48 KB

750 XTR Series I/O-System – General Product Information pdf 726.09 KB

| Bid Text | | | |
|------------------|------------|-----------------|-------------------|
| 750-1515/040-000 | 19.02.2019 | xml 6.82 KB | ↓ |
| 750-1515/040-000 | 28.10.2015 | doc 34.50 KB | ↓ |

| Instruction Leaflet | | | |
|---------------------------------|------------|------------------|-------------------|
| CCC Ex (Additional information) | 26.04.2023 | pdf 144.58 KB | ↓ |











| CAD/CAE-Data | |
|--|---|
| CAD data | CAE data |
| 2D/3D Models 750-1515/040-000 ↓ | EPLAN Data Portal 750-1515/040-000 ↓ |
| | WSCAD Universe 750-1515/040-000 ↓ |
| | ZUKEN Portal 750-1515/040-000 ↓ |

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; unslotted; similar to EN 60715; silver-colored |  Item No.: 210-198 Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored |  Item No.: 210-508 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; 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; slotted; similar to EN 60715; silver-colored |
|  Item No.: 210-506 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; 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; unslotted; similar to EN 60715; silver-colored |  Item No.: 210-118 Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored |  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; silver-colored |
|  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; silver-colored |  Item No.: 210-504 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; 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; unslotted; according to EN 60715; silver-colored |  Item No.: 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

| |
|---|
|  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



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

1.1.2.3 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; 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

1.1.4 Supply module

1.1.4.1 Supply module



Item No.: 750-612/040-000

Power Supply; 0 ... 230 V AC/DC; Extreme

Item No.: 750-602/040-000

Power Supply; 24 VDC; Extreme

1.1.5 System enclosure

1.1.5.1 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); WxHxD (164x100x164 mm); 9 x M12, 4 x M20



Item No.: 850-835

IP65 enclosure; Polyester (RAL 7032); WxHxD (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 flange plate



Item No.: 850-815/002-000

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



Item No.: 850-816/002-000

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



Item No.: 850-817/002-000

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

1.1.6 Tool

1.1.6.1 Operating tool



Item No.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft