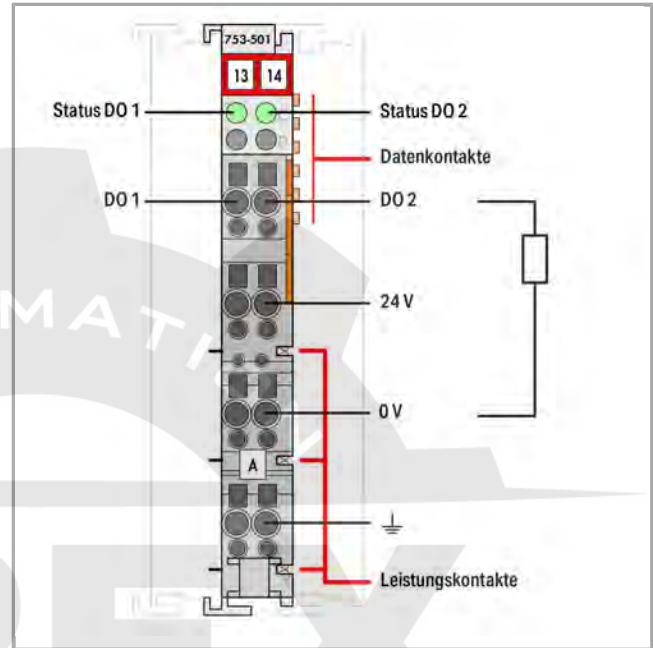
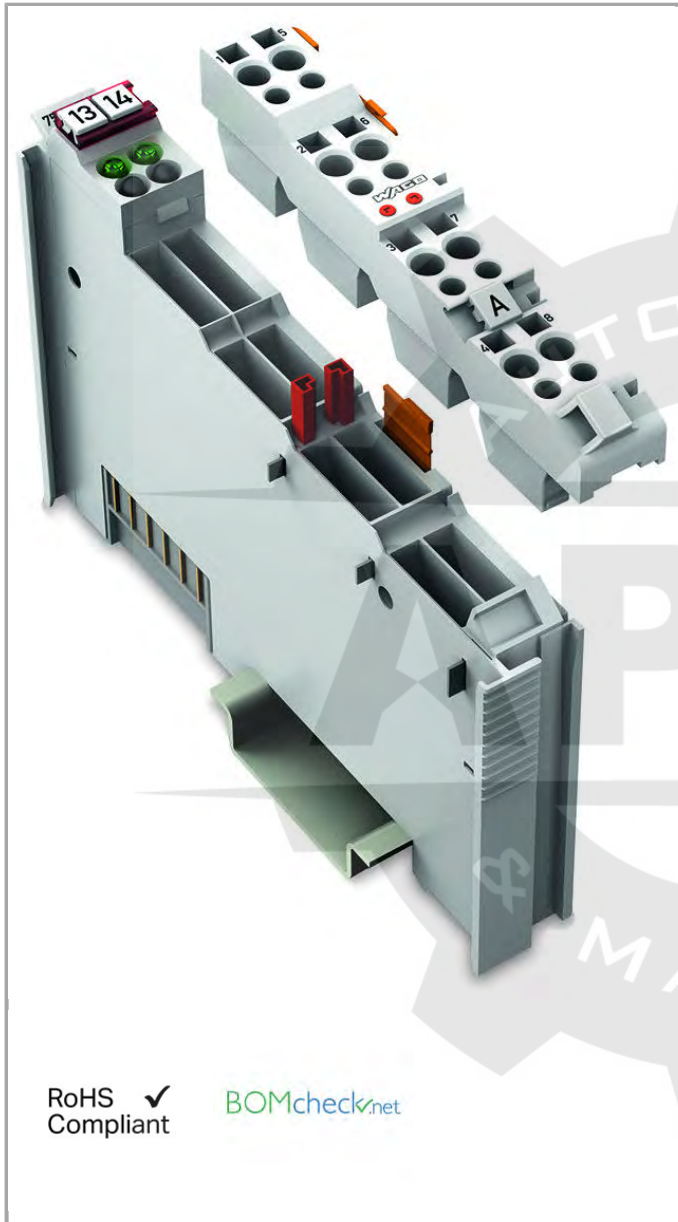
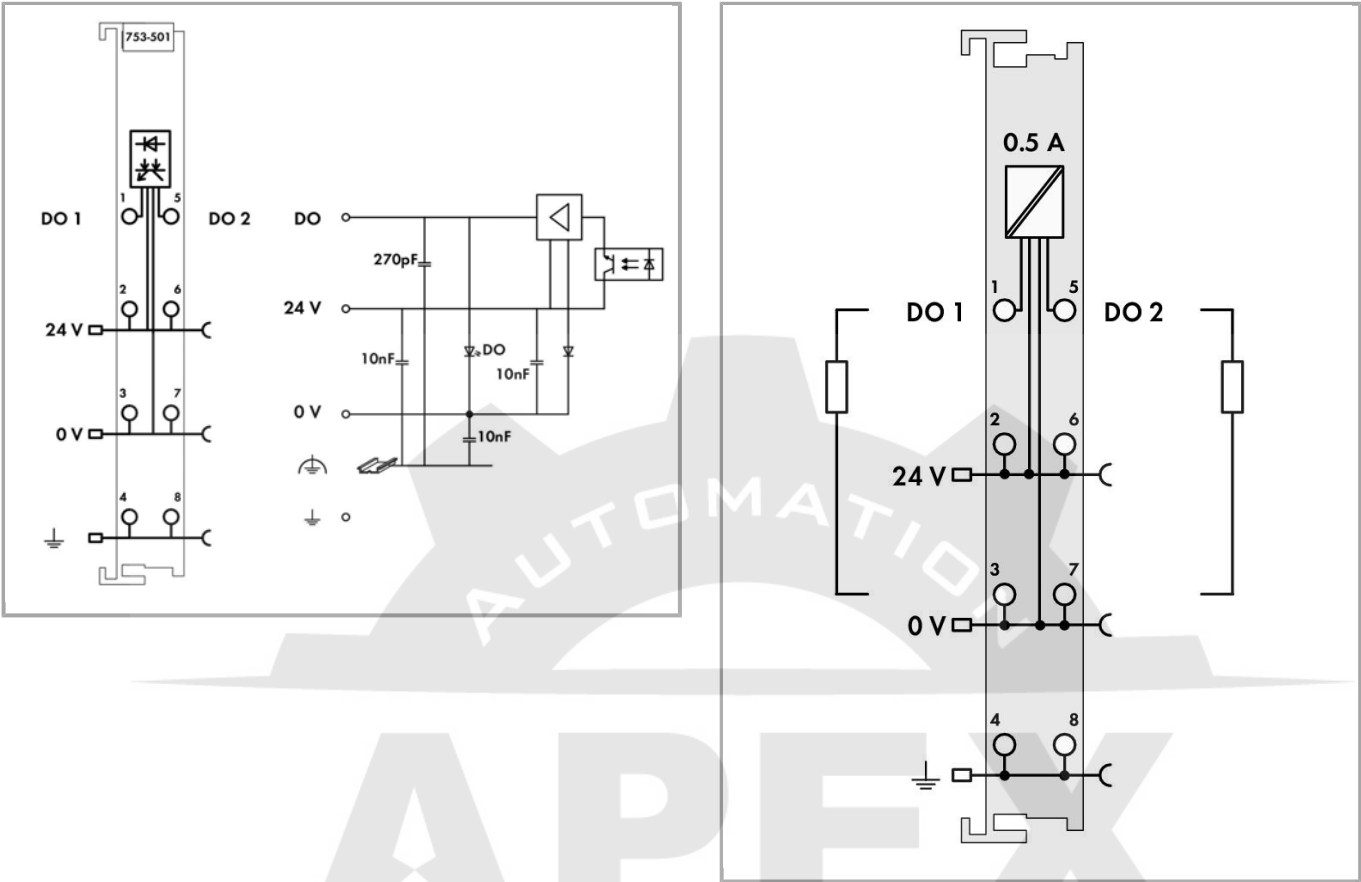


753-501



RoHS   
Compliant

[BOMcheck.net](https://www.bomcheck.net)



Item description

This digital output module transmits control signals from the automation device to the connected actuators.

All outputs are short-circuit-protected.

Field and system levels are electrically isolated.

Note:

WAGO's 753 Series Pluggable Connectors and Coding Fingers are not included.

Data  
Technical Data

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Number of digital outputs         | 2                                     |
| Total number of channels (module) | 2                                     |
| Type of signal                    | Voltage                               |
| Actuator connection               | 2 x (2-conductor, 3 Leiter, 4 Leiter) |
| Output characteristic             | high-side switching                   |
| Output current per channel        | 0.5 A                                 |



|                                                                  |                                                                                                                   |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Output current                                                   | short-circuit-protected                                                                                           |
| Switching frequency max.                                         | 5 kHz                                                                                                             |
| Type of load                                                     | resistive, inductive, lamps                                                                                       |
| Switching frequency max.                                         | 5000 Hz                                                                                                           |
| Inductive load switch-off energy dissipation W (max.)            | 0.5 J                                                                                                             |
| Max output data width (internal)                                 | 2 Bit                                                                                                             |
| System supply voltage                                            | DC 5 V; via data contacts                                                                                         |
| Current consumption, system supply (5 V)                         | 3.5 mA                                                                                                            |
| System and sensor supply voltage                                 | )                                                                                                                 |
| Field supply voltage                                             | DC 24 V (-25 ... +30 %); über Leistungskontakte (Einspeisung über Messerkontakt; Weiterleitung über Federkontakt) |
| Current consumption, field supply (module with no external load) | 15 mA                                                                                                             |
| Isolation field – system                                         | 500 VAC (1 min)                                                                                                   |
| Indicators                                                       | LED (A, C) green: Status DO 1, DO 2                                                                               |
| Number of incoming power jumper contacts                         | 3                                                                                                                 |
| Number of outgoing power jumper contacts                         | 3                                                                                                                 |
| Current carrying capacity of the power jumper contacts           | 10 A                                                                                                              |

### Connection data

|                                    |                                  |
|------------------------------------|----------------------------------|
| Connection technology: In-/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                       | 9 ... 10 mm / 0.35 ... 0.39 inch |

### Geometrical Data

|                                       |                      |
|---------------------------------------|----------------------|
| Width                                 | 12 mm / 0.472 inch   |
| Height                                | 69.8 mm / 2.748 inch |
| Height from upper-edge of DIN-35 rail | 62.6 mm / 2.465 inch |
| Depth                                 | 100 mm / 3.937 inch  |

### Mechanical data

|                     |             |
|---------------------|-------------|
| Type of mounting    | DIN-35 rail |
| Pluggable connector | yes         |

### Material Data

|                  |                              |
|------------------|------------------------------|
| Color            | light gray                   |
| Housing material | Polycarbonate, polyamide 6.6 |
| Fire load        | 1.175 MJ                     |
| Weight           | 40 g                         |

Conformity marking

1

## Environmental Requirements

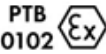
|                                                                                    |                                           |
|------------------------------------------------------------------------------------|-------------------------------------------|
| Surrounding air (operating) temperature                                            | 0 ... 55 °C                               |
| Surrounding air (storage) temperature                                              | -40 ... 85 °C                             |
| Protection class                                                                   | IP20                                      |
| Degree of pollution (5)                                                            | 2 per IEC 61131-2                         |
| Operating altitude                                                                 | 0 ... 2000 m                              |
| Mounting position                                                                  | horizontal (standing/lying) or vertical   |
| Relative air humidity (no condensation)                                            | 95 %                                      |
| Vibration resistance                                                               | 4g per IEC 60068-2-6                      |
| Shock resistance                                                                   | 15g per IEC 60068-2-27                    |
| EMC immunity to interference                                                       | acc. to EN 61000-6-2, marine applications |
| EMC emission of interference                                                       | acc. to EN 61000-6-4, marine applications |
| Exposure to pollutants                                                             | Per IEC 60068-2-42 and IEC 60068-2-43     |
| Permissible H <sub>2</sub> S contaminant concentration at a relative humidity 75 % | 10 ppm                                    |
| Permissible SO <sub>2</sub> contaminant concentration at a relative humidity 75 %  | 25 ppm                                    |

## Commercial data

|                    |                 |
|--------------------|-----------------|
| Product Group      | 15 (Remote I/O) |
| Country of origin  | DE              |
| GTIN               | 4045454802615   |
| Customs Tariff No. | 85371098990     |

## Approvals / Certificates

### Ex-Approvals

| Logo                                                                               | Approval                                                   | Additional Approval Text | Certificate name                  |
|------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------|-----------------------------------|
|  | ATEX<br>TUEV Nord Cert GmbH                                | EN 60079-0               | TÜV 07<br>ATEX<br>554086 X<br>en. |
|  | TUEV Nord<br>TUEV Nord Cert GmbH                           | IEC 60079-0              | IECEX<br>TUN<br>09.0001 X         |
|  | UL<br>Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | ANSI/ISA 12.12.01        | E198726<br>Sec.1                  |

#### Country specific Approvals

| Logo                                                                             | Approval                                    | Additional Approval Text | Certificate name            |
|----------------------------------------------------------------------------------|---------------------------------------------|--------------------------|-----------------------------|
|  | <b>KC</b><br>National Radio Research Agency | Article 58-2, Clause 3   | MSIP-<br>REM-W43-<br>DOM750 |

#### Ship Approvals

| Logo                                                                                | Approval                                                | Additional Approval Text | Certificate name      |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------|-----------------------|
|     | <b>ABS</b><br>American Bureau of Shipping               | -                        | 19-<br>HG1821926      |
|    | <b>BV</b><br>Bureau Veritas S.A.                        | -                        | 13453/DO BV           |
|    | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAA0000194            |
|   | <b>KR</b><br>Korean Register of Shipping                | -                        | HMB05880-<br>AC001    |
|  | <b>LR</b><br>Lloyds Register                            | -                        | 02/20026 (E5)         |
|  | <b>PRS</b><br>Polski Rejestr Statków                    | -                        | TE/2236<br>/880590/19 |
|   | <b>RINA</b><br>RINA Germany GmbH                        | -                        | ELE134212XG           |

#### UL-Approvals

| Logo | Approval                                                            | Additional Approval Text | Certificate name |
|------|---------------------------------------------------------------------|--------------------------|------------------|
|      | <b>UL</b><br>UL International Netherlands B.V. (ORDINARY LOCATIONS) | UL 508                   | E175199<br>Sec.1 |



## Compatible products

## Marking accessories

|                                                                                    |                                                                                                                        |                      |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------|
|    | Item no.: 2009-145<br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type         | 2009-145             |
|    | Item no.: 2009-145/000-002<br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | 2009-145<br>/000-002 |
|    | Item no.: 2009-145/000-005<br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | 2009-145<br>/000-005 |
|  | Item no.: 2009-145/000-006<br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | 2009-145<br>/000-006 |
|  | Item no.: 2009-145/000-007<br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | 2009-145<br>/000-007 |
|  | Item no.: 2009-145/000-012<br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | 2009-145<br>/000-012 |
|  | Item no.: 2009-145/000-023<br>Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type  | 2009-145<br>/000-023 |
|  | Item no.: 2009-145/000-024<br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | 2009-145<br>/000-024 |
|  | Item no.: 248-501<br>Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card  | 248-501              |
|  | Item no.: 248-501/000-002<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | 248-501<br>/000-002  |
|  | Item no.: 248-501/000-005<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | 248-501<br>/000-005  |



**Item no.: 248-501/000-006**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type

/000-006

248-501



**Item no.: 248-501/000-007**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type

/000-007

248-501



**Item no.: 248-501/000-012**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type

/000-012

248-501



**Item no.: 248-501/000-017**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type

/000-017

248-501



**Item no.: 248-501/000-023**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type

/000-023

248-501



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

/000-024

248-501



**Item no.: 709-198**  
Marking strips

709-198



**Item no.: 750-100**  
Marker card; as a DIN A4 sheet; plain

750-100



**Item no.: 750-103**  
Group marker carrier

750-103



**Item no.: 750-106**  
Group marker carrier

750-106

## system box



**Item no.: 850-804**  
IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 4 x M20, 16 x M16, 28 x M12 cable grip

850-804



**Item no.: 850-804/000-001**  
IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 2 x M20, 13 x M16, 32 x M12 cable grip

/000-001

850-804



**Item no.: 850-805**  
IP65 enclosure; Stainless steel; WxHxD (600x123x200 mm); 4 x M20, 19 x M16, 67 x M12 cable grip

850-805



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

/002-000

850-814



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

/002-000

850-815



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

/002-000

850-816

|                                                                                    |                                                                                                                                          |                     |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|    | <b>Item no.: 850-817/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate                 | 850-817<br>/002-000 |
|    | <b>Item no.: 850-825</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20                               | 850-825             |
|    | <b>Item no.: 850-826</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip          | 850-826             |
|    | <b>Item no.: 850-826/002-000</b><br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip  | 850-826<br>/002-000 |
|    | <b>Item no.: 850-827</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip          | 850-827             |
|    | <b>Item no.: 850-827/002-000</b><br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip  | 850-827<br>/002-000 |
|    | <b>Item no.: 850-828</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip         | 850-828             |
|    | <b>Item no.: 850-828/002-000</b><br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip | 850-828<br>/002-000 |
|   | <b>Item no.: 850-834</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20                               | 850-834             |
|  | <b>Item no.: 850-835</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip          | 850-835             |
|  | <b>Item no.: 850-836</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip          | 850-836             |
| <b>Supply module</b>                                                               |                                                                                                                                          |                     |
|  | <b>Item no.: 750-601</b><br>Power Supply; 24 VDC                                                                                         | 750-601             |
|  | <b>Item no.: 750-602</b><br>Power Supply; 24 VDC                                                                                         | 750-602             |
|  | <b>Item no.: 750-610</b><br>Power Supply; 24 VDC; fuse holder; Diagnostics                                                               | 750-610             |
|  | <b>Item no.: 750-612</b><br>Power Supply; 0 ... 230 V AC/DC                                                                              | 750-612             |
|  | <b>Item no.: 753-602</b><br>Power Supply; 24 VDC                                                                                         | 753-602             |
|  | <b>Item no.: 753-612</b><br>Power Supply; 0 ... 230 V AC/DC                                                                              | 753-612             |

**Carrier rail**

|                                                                                    |                                                                                                                                       |         |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------|
|    | <b>Item no.: 210-112</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm" | 210-112 |
|    | <b>Item no.: 210-113</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715                   | 210-113 |
|    | <b>Item no.: 210-114</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715                    | 210-114 |
|    | <b>Item no.: 210-115</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm" | 210-115 |
|    | <b>Item no.: 210-118</b><br>Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715                  | 210-118 |
|    | <b>Item no.: 210-196</b><br>Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715                | 210-196 |
|    | <b>Item no.: 210-197</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715                      | 210-197 |
|    | <b>Item no.: 210-198</b><br>Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715                 | 210-198 |
|    | <b>Item no.: 210-504</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715         | 210-504 |
|   | <b>Item no.: 210-505</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715       | 210-505 |
|  | <b>Item no.: 210-506</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715        | 210-506 |
|  | <b>Item no.: 210-508</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715          | 210-508 |
| <b>shield connection</b>                                                           |                                                                                                                                       |         |
|  | <b>Item no.: 790-108</b><br>Shield clamping saddle; 11 mm wide; diameter of compatible conductor                                      | 790-108 |
|  | <b>Item no.: 790-116</b><br>Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm                         | 790-116 |
|  | <b>Item no.: 790-124</b><br>Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm                         | 790-124 |
|  | <b>Item no.: 790-140</b><br>Shield clamping saddle; diameter of compatible conductor                                                  | 790-140 |
|  | <b>Item no.: 790-208</b><br>Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm                                                          | 790-208 |
|  | <b>Item no.: 790-216</b><br>Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm                                                         | 790-216 |
|  | <b>Item no.: 790-220</b><br>Shield clamping saddle; 30 mm wide; 6 ... 20 mm                                                           | 790-220 |

**pluggable wiring tier**



Item no.: 753-110  
Plug

753-110



Item no.: 753-150  
753 Series coding elements

753-150

## Downloads

### Documentation

#### Manual

|                                                                        |         |               |          |
|------------------------------------------------------------------------|---------|---------------|----------|
| 2-channel, 24VDC, 0.5A<br>short-circuit protected, high-side switching | V 1.2.0 | pdf<br>2.5 MB | Download |
|------------------------------------------------------------------------|---------|---------------|----------|

#### Bid Text

|                    |             |                |          |
|--------------------|-------------|----------------|----------|
| 753-501<br>IO, 753 | Oct 6, 2014 | doc<br>29.2 kB | Download |
|--------------------|-------------|----------------|----------|

#### Additional Information

|                                                          |         |                 |          |
|----------------------------------------------------------|---------|-----------------|----------|
| Disposal; Electrical and electronic equipment, Packaging | V 1.0.0 | pdf<br>265.8 kB | Download |
|----------------------------------------------------------|---------|-----------------|----------|

#### System Description

|                                                         |  |               |          |
|---------------------------------------------------------|--|---------------|----------|
| 750/753 Series I/O-System – General Product Information |  | pdf<br>1.7 MB | Download |
|---------------------------------------------------------|--|---------------|----------|

|                                           |  |                 |          |
|-------------------------------------------|--|-----------------|----------|
| Overview on WAGO-I/O-SYSTEM 750 approvals |  | pdf<br>780.2 kB | Download |
|-------------------------------------------|--|-----------------|----------|

## CAD/CAE - Smart Data

#### CAD data

|                     |     |          |
|---------------------|-----|----------|
| 3D Download 753-501 | URL | Download |
|---------------------|-----|----------|

## Product family

**750/753 Series I/O-System**

[Learn more about the product family.](#)

[Show all products from the family](#)



Subject to changes.

---