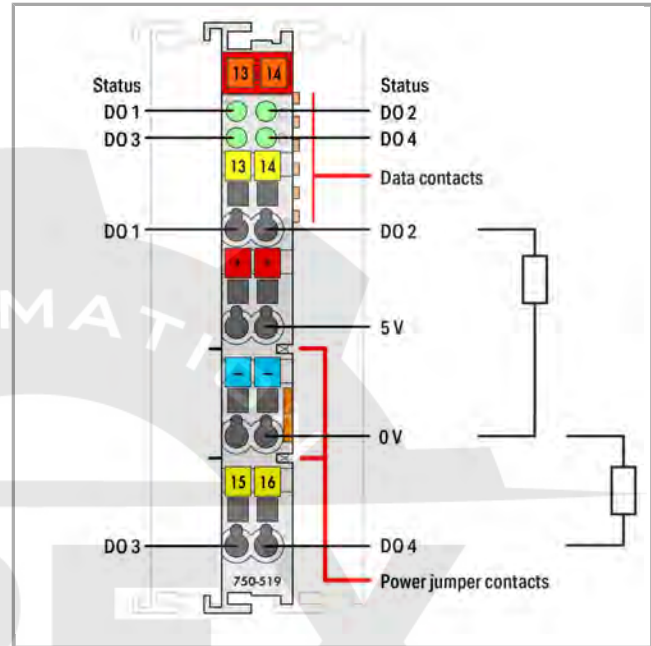
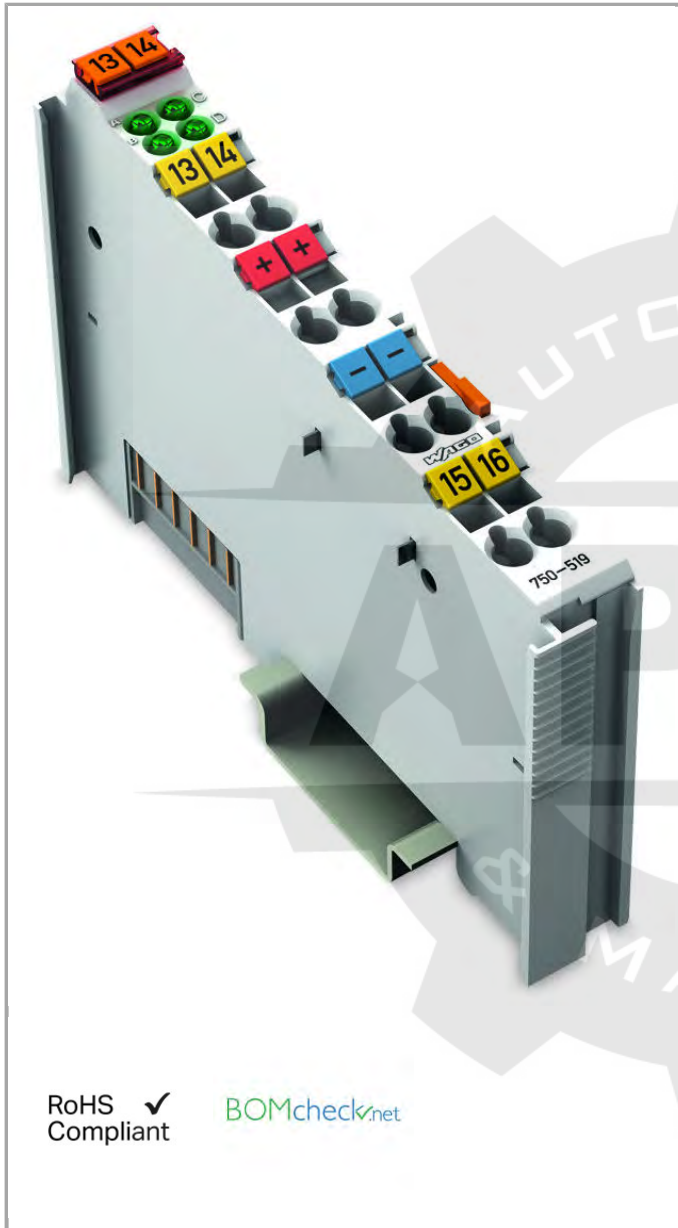
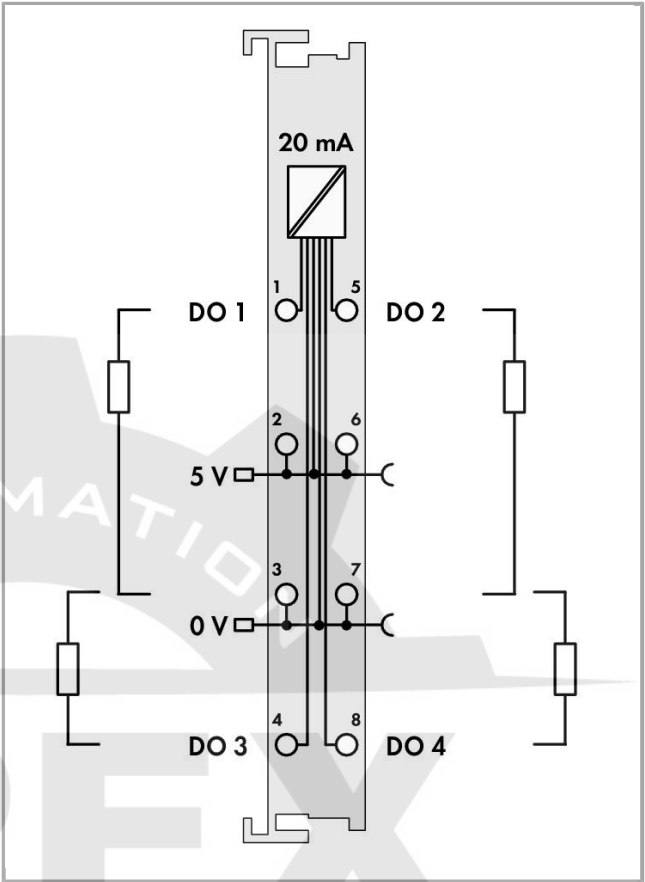
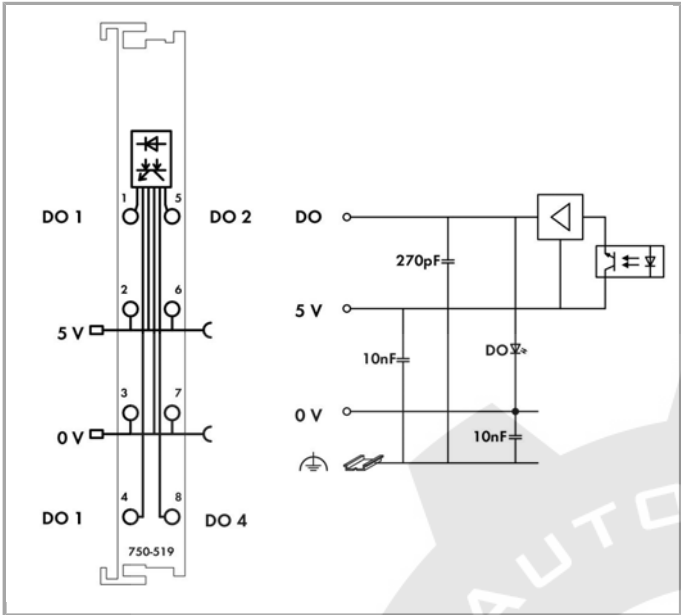


750-519



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.

Notice:

An additional supply module must be added for operation with 5 VDC!

Data

Technical Data

|                                   |                                                                                                                                                        |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of digital outputs         | 4                                                                                                                                                      |
| Total number of channels (module) | 4                                                                                                                                                      |
| Type of signal                    | Voltage                                                                                                                                                |
| Actuator connection               | 2 x (2-conductor); für den Anschluss weiterer Aktoren muss zusätzlich eine geeignete Potentialvervielfältigungsmodul (z.B. 750-614) eingesetzt werden. |
| Output characteristic             | high-side switching                                                                                                                                    |
| Output current per channel        | 0.02 A                                                                                                                                                 |



|                                                                  |                                                                                                  |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Output current                                                   | short-circuit-protected                                                                          |
| Switching frequency max.                                         | 5 kHz                                                                                            |
| Type of load                                                     | resistive, inductive, lamps                                                                      |
| Switching frequency max.                                         | 5000 Hz                                                                                          |
| Max output data width (internal)                                 | 4 Bit                                                                                            |
| System supply voltage                                            | DC 5 V; via data contacts                                                                        |
| Current consumption, system supply (5 V)                         | 10 mA                                                                                            |
| System and sensor supply voltage                                 | )                                                                                                |
| Field supply voltage                                             | DC 5 V; über Leistungskontakte (Einspeisung über Messerkontakt; Weiterleitung über Federkontakt) |
| Current consumption, field supply (module with no external load) | 14 mA                                                                                            |
| Isolation field – system                                         | 500 VAC (1 min)                                                                                  |
| 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 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                       | 8 ... 9 mm / 0.31 ... 0.35 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 |
|------------------|-------------|

### Material Data

|                    |                              |
|--------------------|------------------------------|
| Color              | light gray                   |
| Housing material   | Polycarbonate, polyamide 6.6 |
| Weight             | 45 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                                                               | acc. to IEC 60068-2-6                   |
| Shock resistance                                                                   | 15g per IEC 60068-2-27                  |
| EMC immunity to interference                                                       | acc. to EN 61000-6-2                    |
| EMC emission of interference                                                       | acc. to EN 61000-6-4                    |
| 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               | 4045454848446   |
| Customs Tariff No. | 85389099990     |

## Approvals / Certificates

### Ex-Approvals

| Logo                                                                               | Approval                                                          | Additional Approval Text | Certificate name           |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------|----------------------------|
|                                                                                    | <b>INMETRO</b><br>TÜV Rheinland do Brasil Ltda.                   | IEC 60079                | BR-<br>Ex_TÜV<br>12.1297 X |
|  | <b>UL</b><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 |



## UL-Approvals

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

## Compatible products

## Supply module

|                                                                                    |                                                      |         |
|------------------------------------------------------------------------------------|------------------------------------------------------|---------|
|  | Item no.: 750-612<br>Power Supply; 0 ... 230 V AC/DC | 750-612 |
|  | Item no.: 750-623<br>Power Supply; 24 V/5 ... 15 VDC | 750-623 |

## 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 |

|                                                                                    |                                                                                                                                      |                      |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------|
|    | <b>Item no.: 2009-145/000-023</b><br>Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type         | 2009-145<br>/000-023 |
|    | <b>Item no.: 2009-145/000-024</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type        | 2009-145<br>/000-024 |
|    | <b>Item no.: 248-501</b><br>Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card         | 248-501              |
|    | <b>Item no.: 248-501/000-002</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                             | 248-501<br>/000-002  |
|    | <b>Item no.: 248-501/000-005</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                             | 248-501<br>/000-005  |
|    | <b>Item no.: 248-501/000-006</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                             | 248-501<br>/000-006  |
|    | <b>Item no.: 248-501/000-007</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                             | 248-501<br>/000-007  |
|   | <b>Item no.: 248-501/000-012</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                             | 248-501<br>/000-012  |
|  | <b>Item no.: 248-501/000-017</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                             | 248-501<br>/000-017  |
|  | <b>Item no.: 248-501/000-023</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                             | 248-501<br>/000-023  |
|  | <b>Item no.: 248-501/000-024</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                             | 248-501<br>/000-024  |
|  | <b>Item no.: 750-100</b><br>Marker card; as a DIN A4 sheet; plain                                                                    | 750-100              |
|  | <b>Item no.: 750-103</b><br>Group marker carrier                                                                                     | 750-103              |
|  | <b>Item no.: 750-106</b><br>Group marker carrier                                                                                     | 750-106              |
| <b>Carrier rail</b>                                                                |                                                                                                                                      |                      |
|  | <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>system box</b>                                                                  |                                                                                                                                      |         |
|  | <b>Item no.: 850-804</b><br>IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 4 x M20, 16 x M16, 28 x M12 cable grip          | 850-804 |
|  | <b>Item no.: 850-804/000-001</b><br>IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 2 x M20, 13 x M16, 32 x M12 cable grip  | 850-804 |
|  | <b>Item no.: 850-805</b><br>IP65 enclosure; Stainless steel; WxHxD (600x123x200 mm); 4 x M20, 19 x M16, 67 x M12 cable grip          | 850-805 |
|  | <b>Item no.: 850-814/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate             | 850-814 |
|  | <b>Item no.: 850-815/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate             | 850-815 |
|  | <b>Item no.: 850-816/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate             | 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 |
|  | <b>Item no.: 850-825</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20                           | 850-825 |

**Item no.: 850-826**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip

850-826

**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

/002-000

850-826

**Item no.: 850-827**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip

850-827

**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

/002-000

850-827

**Item no.: 850-828**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip

850-828

**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

/002-000

850-828

**Item no.: 850-834**

IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20

850-834

**Item no.: 850-835**

IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip

850-835

**Item no.: 850-836**

IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip

850-836

**potential distribution****Item no.: 750-614**

Potential Distribution

750-614

**shield connection****Item no.: 790-108**

Shield clamping saddle; 11 mm wide; diameter of compatible conductor

790-108

**Item no.: 790-116**

Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm

790-116

**Item no.: 790-124**

Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm

790-124

**Item no.: 790-140**

Shield clamping saddle; diameter of compatible conductor

790-140

**Item no.: 790-208**

Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm

790-208

**Item no.: 790-216**

Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm

790-216

**Item no.: 790-220**

Shield clamping saddle; 30 mm wide; 6 ... 20 mm

790-220



## Downloads

## Documentation

## Manual

|                                                                       |         |                 |          |
|-----------------------------------------------------------------------|---------|-----------------|----------|
| 4-channel, 5VDC, 20mA<br>short-circuit protected, high-side switching | V 1.0.4 | pdf<br>484.9 kB | Download |
|-----------------------------------------------------------------------|---------|-----------------|----------|

## Bid Text

|                       |             |                |          |
|-----------------------|-------------|----------------|----------|
| 750-519<br>IO-Klemmen | Apr 4, 2012 | doc<br>27.1 kB | Download |
|-----------------------|-------------|----------------|----------|

## Additional Information

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

## System Description

|                                                                                    |         |               |          |
|------------------------------------------------------------------------------------|---------|---------------|----------|
| Design Notes<br>Basic conditions and recommendations for higher operational safety | V 2.0.0 | pdf<br>1.5 MB | Download |
|------------------------------------------------------------------------------------|---------|---------------|----------|

|                                                                                        |         |               |          |
|----------------------------------------------------------------------------------------|---------|---------------|----------|
| Use in Hazardous Environments<br>Term definition, marking and installation regulations | V 1.0.0 | pdf<br>1.0 MB | Download |
|----------------------------------------------------------------------------------------|---------|---------------|----------|

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

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

## CAD/CAE - Smart Data

## CAD data

|                     |  |     |          |
|---------------------|--|-----|----------|
| 3D Download 750-519 |  | URL | Download |
|---------------------|--|-----|----------|

## Device Files

## Device Driver

|                                                               |                         |               |          |
|---------------------------------------------------------------|-------------------------|---------------|----------|
| WAGO USB Service Cable Driver / 750 and 857 Series<br>759-923 | 6.5.3.0<br>Sep 10, 2014 | zip<br>4.8 MB | Download |
|---------------------------------------------------------------|-------------------------|---------------|----------|

## Product family

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

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

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Subject to changes.

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