



This potential multiplication module provides 0 V to the outputs in combination with the 750-1504 16-Channel Output Module (also suitable for 8-channel output modules with a single wire connection).

This eliminates the need for additional DIN-rail-mount terminal blocks.

The 24 V supply and 0 V potential are derived from the internal power jumper contacts of an adjacent upstream I/O module. A connection of the potentials to the downstream I/O modules is made automatically via the power jumper contacts when snapping the I/O modules together. The 0 V power is provided to all sixteen field-side Push-in CAGE CLAMP® connections and the 24 V potential passed through without being used by the module.

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

| Technical data                                    |  |
|---|--|
| Signal type                                       | Voltage  |
| Signal type (voltage)                             | 0 VDC  |
| Supply voltage (system)                           | 5 VDC; via data contacts   |
| Supply voltage (field)                            | 24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission (supply voltage field side only) via spring contact) |
| Number of incoming power jumper contacts          | 2  |
| Number of outgoing power jumper contacts          | 2  |
| Current carrying capacity (power jumper contacts) | 10 A   |

### Connection data

|                                     |  |
|-------------------------------------|--|
| Connection technology: field supply | 16 x CAGE CLAMP®                             |
| Connection type 1                   | Field supply                                 |
| Solid conductor                     | 0.08 ... 1.5 mm <sup>2</sup> / 28 ... 16 AWG |
| Fine-stranded conductor             | 0.25 ... 1.5 mm <sup>2</sup> / 22 ... 16 AWG |
| Strip length                        | 8 ... 9 mm / 0.31 ... 0.35 inches            |

### Physical data

|                                   |                        |
|-----------------------------------|------------------------|
| 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

|                    |                              |
|--------------------|------------------------------|
| Housing material   | Polycarbonate; polyamide 6.6 |
| Fire load          | 0.93 MJ                      |
| Weight             | 42 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 (standing/lying); vertical |
| 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 <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 (I/O System) |
| eCl@ss 10.0           | 27-24-26-10     |
| eCl@ss 9.0            | 27-24-26-10     |
| ETIM 8.0              | EC001600        |
| ETIM 7.0              | EC001600        |
| PU (SPU)              | 1 pcs           |
| Packaging type        | Box             |
| Country of origin     | DE              |
| GTIN                  | 4050821085676   |
| Customs tariff number | 85389091890     |

| Environmental Product Compliance |                         |
|----------------------------------|-------------------------|
| RoHS Compliance Status           | Compliant, No Exemption |

### Approvals / Certificates

| General approvals                                  |                        |                     | Declarations of conformity and manufacturer's declarations   |  |  |          |          |                  |  |   |   |  |   |   |
|--|------------------------|---------------------|--|--|--|----------|----------|------------------|--|---|---|--|---|---|
|  |                        |                     | <table border="1"> <thead> <tr> <th>Approval</th> <th>Standard</th> <th>Certificate Name</th> </tr> </thead> <tbody> <tr> <td>EU-Declaration of Conformity<br/>WAGO GmbH &amp; Co. KG</td> <td>-</td> <td>-</td> </tr> <tr> <td>UK-Declaration of Conformity<br/>WAGO GmbH &amp; Co. KG</td> <td>-</td> <td>-</td> </tr> </tbody> </table> |  |  | Approval | Standard | Certificate Name | EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - | UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |
| Approval   | Standard               | Certificate Name    |  |  |  |          |          |                  |  |   |   |  |   |   |
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | -                      | -                   |  |  |  |          |          |                  |  |   |   |  |   |   |
| UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | -                      | -                   |  |  |  |          |          |                  |  |   |   |  |   |   |
| Approval   | Standard               | Certificate Name    |  |  |  |          |          |                  |  |   |   |  |   |   |
| EAC<br>GZO Almaty Standart                         | TP TC 020/2011         | EAC CoC 03083       |  |  |  |          |          |                  |  |   |   |  |   |   |
| KC<br>National Radio Research Agency               | Article 58-2, Clause 3 | MSIP-REM-W43-FSC750 |  |  |  |          |          |                  |  |   |   |  |   |   |

### Approvals for marine applications

| Approval  | Standard               | Certificate Name  |
|---|------------------------|-------------------|
|   |                        |                   |
| ABS<br>American Bureau of Shipping                    | -                      | 22-2219060        |
| BSH<br>Bundesamt fuer Seeschifffahrt und Hydrographie | -                      | 1104              |
| BV<br>Bureau Veritas S.A.                             | -                      | 30389/C0 BV       |
| DNV<br>DNV GL SE                                      | DNV-CG-0339, Aug. 2021 | TAA0000194        |
| KR<br>Korean Register of Shipping                     | -                      | KR HMB05880-AC001 |
| LR<br>Lloyds Register EMEA                            | -                      | LR22180952TA      |
| PRS<br>Polski Rejestr Statków                         | -                      | TE/1101/880590/23 |
| RINA<br>RINA Germany GmbH                             | -                      | ELE343521XG001    |

### Approvals for hazardous areas

| Approval   | Standard                     | Certificate Name                           |
|--|------------------------------|--|
|  |                              |  |
| ATEX<br>TUEV Nord Cert GmbH                                | EN 60079-0                   | TUEV14ATEX148929X (II 3 G Ex ec IIC T4 Gc) |
| CCCEX<br>CQST/CNEX   | CNCA-C23-01                  | 2020312310000213 (Ex ec IIC T4 Gc)         |
| IECEx<br>TUEV Nord Cert GmbH                               | IEC 60079-0                  | IECEx TUN 14.0035 X (Ex ec IIC T4 Gc)      |
| INMETRO<br>TUV Rheinland do Brasil Ltda.                   | IEC 60079-0                  | TUV 12.1297 X                              |
| KTL<br>Korea Testing Laboratory                            | KOSHA Article 34, IEC60079-0 | 20-KA4BO-0641X                             |
| UKEx<br>WAGO GmbH & Co. KG                                 | EN 60079-0                   | UKCA_WA GO22UKEX003X_ec                    |
| UL<br>Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | UL 121201                    | E198726 Sec.1                              |

### Downloads

| Environmental Product Compliance          |   |
|---|---|
| Compliance Search                         |   |
| Environmental Product Compliance 750-1606 | ↓ |

| Documentation  |   |  |  |
|--|---|--|--|
| <b>Manual</b>  |   | <b>System Description</b>  |  |
| Product Manual Field side connection module 16-  | V 1.1.0   | pdf<br>1911.04 KB  | <a href="#">↓</a>  |
| System Manual Series 750/753   |   |  | <a href="#">↓</a>  |
|  |   | 750/753 Series I/O-System – General Product Information  | pdf<br>953.35 KB<br><a href="#">↓</a>  |
|  |   | Overview on WAGO-I/O-SYSTEM 750 approvals  | pdf<br>770.48 KB<br><a href="#">↓</a>  |
| <b>Bid Text</b>  |   | <b>Instruction Leaflet</b>   |  |
| 750-1606   | 19.02.2019  | xml<br>4.51 KB   | <a href="#">↓</a>  |
| 750-1606   | 06.10.2017  | doc<br>27.00 KB  | <a href="#">↓</a>  |
|  |   | CCC Ex (Additional information)  | 26.04.2023<br>pdf<br>159.76 KB<br><a href="#">↓</a>  |
| CAD/CAE-Data   |   |  |  |
| <b>CAD data</b>  |   | <b>CAE data</b>  |  |
| 2D/3D Models 750-1606  |   |  | <a href="#">↓</a>  |
|  |   | EPLAN Data Portal 750-1606   | <a href="#">↓</a>  |
|  |   | WSCAD Universe 750-1606  | <a href="#">↓</a>  |
|  |   | ZUKEN Portal 750-1606  | <a href="#">↓</a>  |
| Device Files   |   |  |  |
| <b>Device Driver</b>   |   |  |  |
| WAGO USB Service Kabel Treiber / Serie 750 und 857   | 6.5.3.0<br>10.09.2014   | zip<br>4721.96 KB  | <a href="#">↓</a>  |
| 1 Compatible Products  |   |  |  |
| 1.1 Optional Accessories   |   |  |  |
| 1.1.1 DIN-rail   |   |  |  |
| 1.1.1.1 Mounting accessories   |   |  |  |
|  |   |  |  |
| <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; silver-colored               | <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; copper-colored         | <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; silver-colored | <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; silver-colored                     |
|  |   |  |  |
| <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; silver-colored       | <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; silver-colored            | <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; silver-colored         | <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; silver-colored |
|  |   |  |  |
| <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; silver-colored | <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; silver-colored | <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; silver-colored          | <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; 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**

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

**Item No.: 750-602**

Power Supply; 24 VDC

**Item No.: 750-601**

Power Supply; 24 VDC; fuse holder

**Item No.: 750-610**

Power Supply; 24 VDC; fuse holder; Diagnostics

### 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