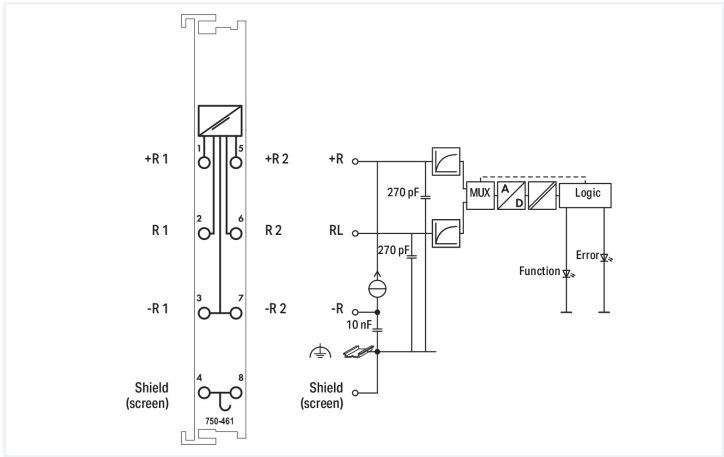
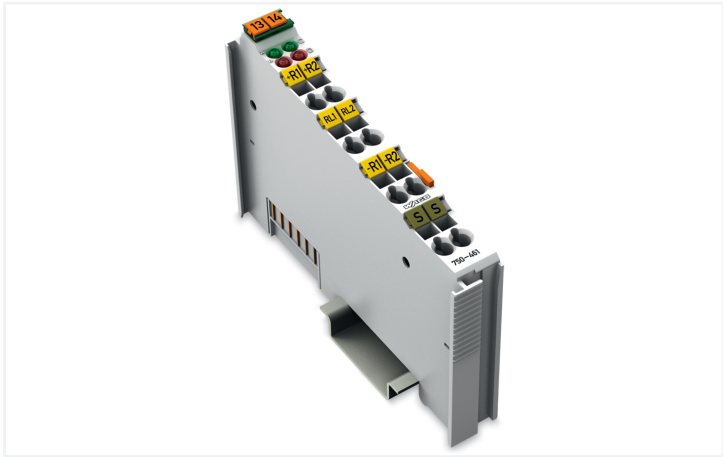
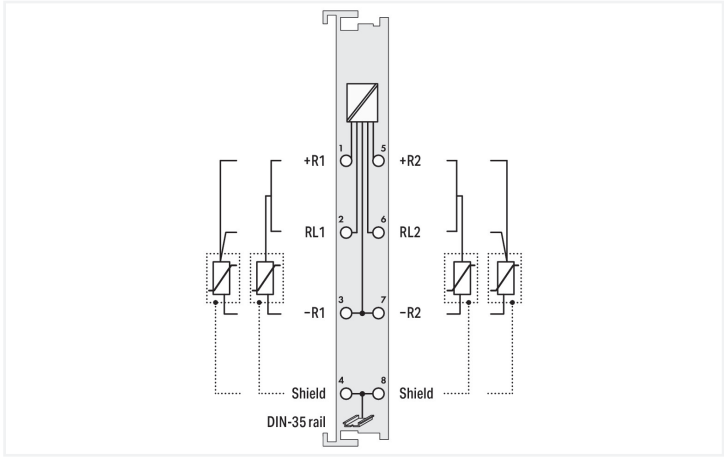
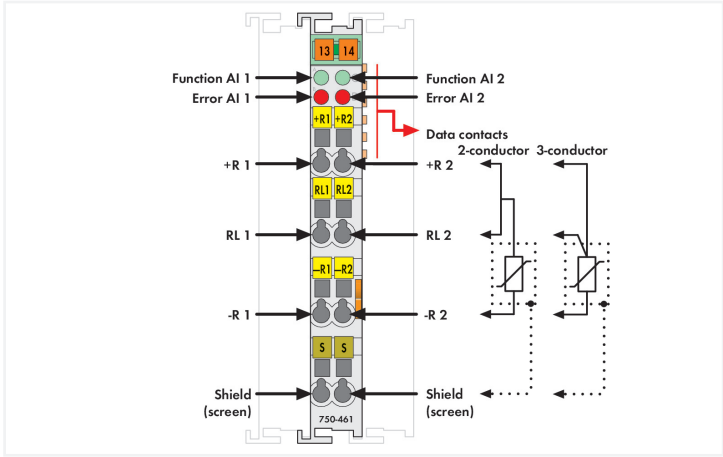




Color: ■ light gray



This analog input module directly connects to Pt resistance sensors. Two- or three-wire sensors can be connected. The module automatically linearizes the entire temperature range. A sensor error (short circuit, line break or measurement range overflow) is indicated by a red LED. A green LED indicates readiness for operation and error-free communication with the coupler. The shield directly connects to the DIN-rail.

| Technical data                                                 |                                                      |
|----------------------------------------------------------------|------------------------------------------------------|
| Number of analog inputs                                        | 2                                                    |
| Total number of channels (module)                              | 2                                                    |
| Signal type                                                    | Resistance measurement                               |
| Sensor connection                                              | 2 x (2-wire, 3-wire)                                 |
| Data width                                                     | 2 x 16-bit data; 2 x 8-bit control/status (optional) |
| Resolution (over entire range)                                 | 0.1 °C                                               |
| Conversion time (typ.)                                         | 320 ms                                               |
| Measurement error (reference temperature)                      | 25 °C                                                |
| Measurement error, deviation (max.) from the upper-range value | 0.2 %                                                |
| Temperature error (max.) of the upper-range value              | 0.01 %/K                                             |
| Measuring current (typ.)                                       | 0.5 mA                                               |
| Response time (max.)                                           | 4 s                                                  |
| Sensor types                                                   | Pt100                                                |

### Technical data

|                                         |                                                                         |
|-----------------------------------------|-------------------------------------------------------------------------|
| Temperature range                       | -200 ... +850 °C                                                        |
| Supply voltage (system)                 | 5 VDC; via data contacts                                                |
| Current consumption (5 V system supply) | 80 mA                                                                   |
| Isolation                               | 500 V system/field                                                      |
| Indicators                              | LED (A, C) green: Function AI 1, AI 2; LED (B, D) red: Error AI 1, AI 2 |

### Connection Data

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Connection technology: I/O      | 8 x CAGE CLAMP®                   |
| Connectable conductor materials | Copper                            |
| Connection type                 | 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 inches |

### Physical data

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

### Mechanical data

|                     |             |
|---------------------|-------------|
| Mounting type       | DIN-35 rail |
| Pluggable connector | fixed       |

### Material data

|                    |                              |
|--------------------|------------------------------|
| Color              | light gray                   |
| Housing material   | Polycarbonate; polyamide 6.6 |
| Fire load          | 0.932 MJ                     |
| Weight             | 50.7 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 top, horizontal bottom, 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                                                                  |
| EMC emission of interference                                                       | per 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 (I/O System) |
| PU (SPU)              | 1 pcs           |
| Packaging type        | Box             |
| Country of origin     | DE              |
| GTIN                  | 4045454486679   |
| Customs tariff number | 85437090990     |

| Product Classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 32101506             |
| eCl@ss 10.0            | 27-24-26-01          |
| eCl@ss 9.0             | 27-24-26-01          |
| ETIM 9.0               | EC001596             |
| ETIM 10.0              | EC001596             |
| ECCN                   | NO US CLASSIFICATION |

| Environmental Product Compliance          |                                           |
|-------------------------------------------|-------------------------------------------|
| CAS-No.                                   | 1303-86-2<br>1317-36-8<br>7439-92-1       |
| REACH Candidate List Substance            | Diboron trioxide<br>Lead<br>Lead monoxide |
| RoHS Compliance Status                    | Compliant,With Exemption                  |
| RoHS Exemption                            | 7(c)-I                                    |
| SCIP notification number (Austria)        | 75429670-35e3-4569-a32e-8e020348f292      |
| SCIP notification number (Belgium)        | bc0715bd-bcab-4da3-92dc-0865a4afe4d8      |
| SCIP notification number (Bulgaria)       | e74b48b1-9cb8-41f2-8ffb-42980ae09654      |
| SCIP notification number (Czech Republic) | 606ce528-9956-410f-8b46-09b4bb84b033      |
| SCIP notification number (Denmark)        | 0b1c8695-17df-469a-8d76-27e5dfedd880      |
| SCIP notification number (Finland)        | e9157e84-07c5-404f-be1e-fee97dad9dd1      |
| SCIP notification number (France)         | e1650623-f1de-4481-9923-0b1cfed3eda0      |
| SCIP notification number (Germany)        | 3e718a18-6d86-4b76-970f-a5da6282c797      |
| SCIP notification number (Hungary)        | 5f27b834-6bd0-46cf-bd12-62d975caf481      |
| SCIP notification number (Italy)          | 1fca87de-4bb2-4af1-8393-eac58bcfa30e      |
| SCIP notification number (Netherlands)    | 62be64b0-d628-49d4-bc55-65fcd4e4702f      |
| SCIP notification number (Poland)         | 3ba89961-35de-4aa7-b416-65eebc778cf1      |
| SCIP notification number (Romania)        | e5a6ca0d-b02c-40a5-9ac0-ce77d43350d5      |
| SCIP notification number (Sweden)         | 79fbe2b1-5c4e-4fe3-9706-7fdd31324fb0      |

| Approvals / Certificates                                                                                                                                                                                                                                   |                        |                                                                                                                                                                                                                                                                               |          |          |                  |                                                    |   |   |                                                    |   |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------------------------------------------|---|---|----------------------------------------------------|---|---|
| General approvals                                                                                                                                                                                                                                          |                        | Declarations of conformity and manufacturer's declarations                                                                                                                                                                                                                    |          |          |                  |                                                    |   |   |                                                    |   |   |
|    |                        |                                                                                                                                                                                                                                                                               |          |          |                  |                                                    |   |   |                                                    |   |   |
| 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-AIM750                                                                                                                                                                                                                                                           |          |          |                  |                                                    |   |   |                                                    |   |   |
| UL<br>Underwriters Laboratories Inc. (ORDINARY LOCATIONS)                                                                                                                                                                                                  | UL 508                 | E175199                                                                                                                                                                                                                                                                       |          |          |                  |                                                    |   |   |                                                    |   |   |
|                                                                                                                                                                                                                                                            |                        | <table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><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></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                                                                                                                                                                                                         | -                      | -                                                                                                                                                                                                                                                                             |          |          |                  |                                                    |   |   |                                                    |   |   |



Approvals for marine applications



| Approval                                                        | Standard                             | Certificate Name  |
|-----------------------------------------------------------------|--------------------------------------|-------------------|
| ABS<br>American Bureau of Ship-<br>ping                         | -                                    | 22-2219060        |
| BSH<br>Bundesamt fuer See-<br>schifffahrt und Hydrogra-<br>phie | -                                    | 1104              |
| BV<br>Bureau Veritas S.A.                                       | -                                    | 13453/E0 BV       |
| DNV<br>DNV GL SE                                                | DNV-CG-0339,Aug.2021                 | TAA0000194        |
| KR<br>Korean Register of Ship-<br>ping                          | -                                    | KR HMB05880-AC001 |
| LR<br>Lloyds Register EMEA                                      | -                                    | LR22180952TA      |
| NK<br>Nippon Kaiji Kyokai                                       | Guidel. Perform. Type Ap-<br>provals | TA25276M          |
| 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<br>3 G Ex ec IIC T4 Gc) |
| CCCEX<br>CQST/CNEx                                                 | CNCA-C23-01 | 2020312310000213 (Ex<br>ec IIC T4 Gc)         |
| IECEx<br>TUEV Nord Cert GmbH                                       | IEC 60079-0 | IECEx TUN 14.0035 X (Ex<br>ec IIC T4 Gc)      |
| INMETRO<br>TÜV Rheinland do Brasil<br>Ltda.                        | IEC 60079-0 | TÜV 12.1297 X                                 |
| UKEx<br>WAGO GmbH & Co. KG                                         | EN 60079-0  | UKCA_WA<br>GO22UKEX003X_ec                    |
| UL<br>Underwriters Laboratories<br>Inc. (HAZARDOUS LOCA-<br>TIONS) | UL 121201   | E198726                                       |

Downloads

Environmental Product Compliance

| Compliance Search                           |
|---------------------------------------------|
| Environmental Product<br>Compliance 750-461 |

Documentation

| Manual                                                              |
|---------------------------------------------------------------------|
| Product Manual 2-<br>channel Analog Input<br>for Resistance Sensors |
| V 1.4.1                                                             |
| pdf<br>2916.84 KB                                                   |
| System Manual Series<br>750/753                                     |

| System Description                                               |
|------------------------------------------------------------------|
| 750/753 Series I/O-<br>System – General Pro-<br>duct Information |
| pdf<br>953.35 KB                                                 |
| Overview on WAGO-I/<br>O-SYSTEM 750 appro-<br>vals               |
| pdf<br>770.48 KB                                                 |

| Bid Text                   |
|----------------------------|
| 750-461                    |
| 19.02.2019                 |
| xml<br>4.58 KB             |
| 750-461                    |
| 20.10.2017                 |
| doc<br>28.00 KB            |
| ausschreiben.de<br>750-461 |

| Instruction Leaflet                  |
|--------------------------------------|
| CCC Ex (Additional in-<br>formation) |
| 26.04.2023                           |
| pdf<br>159.76 KB                     |



| CAD/CAE-Data                                                     |                                                                       |
|------------------------------------------------------------------|-----------------------------------------------------------------------|
| <div>CAD data</div> <div>2D/3D Models 750-461</div> <div>↓</div> | <div>CAE data</div> <div>EPLAN Data Portal 750-461</div> <div>↓</div> |
|                                                                  | <div>WSCAD Universe 750-461</div> <div>↓</div>                        |
|                                                                  | <div>ZUKEN Portal 750-461</div> <div>↓</div>                          |

| Device Files                                                                                                                                                |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <div>Device Driver</div> <div>WAGO USB Service Kabel Treiber / Serie 750 und 857</div> <div>6.5.3.0 10.09.2014</div> <div>zip 4721.96 KB</div> <div>↓</div> |  |

| 1 Compatible Products        |
|------------------------------|
| 1.1 Optional Accessories     |
| 1.1.1 DIN-rail               |
| 1.1.1.1 Mounting accessories |

|                                                                                                                                                                                                                               |                                                                                                                                                                                                                                             |                                                                                                                                                                                                                             |                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><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 | <br><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                | <br><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    | <br><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 |
| <br><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   | <br><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 | <br><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 |                                                                                                                                                                                                                             |

| 1.1.2 Marking                |
|------------------------------|
| 1.1.2.1 Group marker carrier |

|                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 750-106</b><br>Group marker carrier |
|-----------------------------------------------------------------------------------------------------------------------------------------|

| 1.1.2.2 Marker                                                                                                                                                                                                                           |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 750-100</b><br>Marker card; as a DIN A4 sheet; plain                                                                                 | <br><b>Item No.: 2009-145/000-006</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue | <br><b>Item No.: 2009-145/000-007</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray   | <br><b>Item No.: 2009-145/000-023</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green |
| <br><b>Item No.: 2009-145/000-012</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange | <br><b>Item No.: 2009-145/000-005</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red  | <br><b>Item No.: 2009-145/000-024</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet | <br><b>Item No.: 2009-145</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white         |

## 1.1.2.2 Marker

**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 System enclosure

## 1.1.4.1 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



1.1.4.1 System enclosure



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