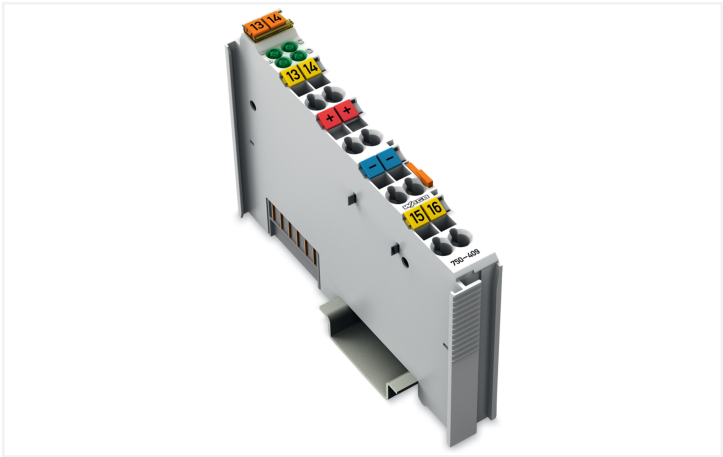
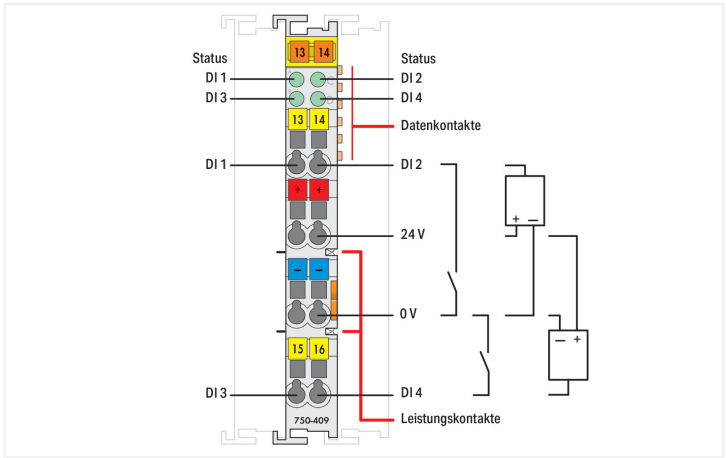
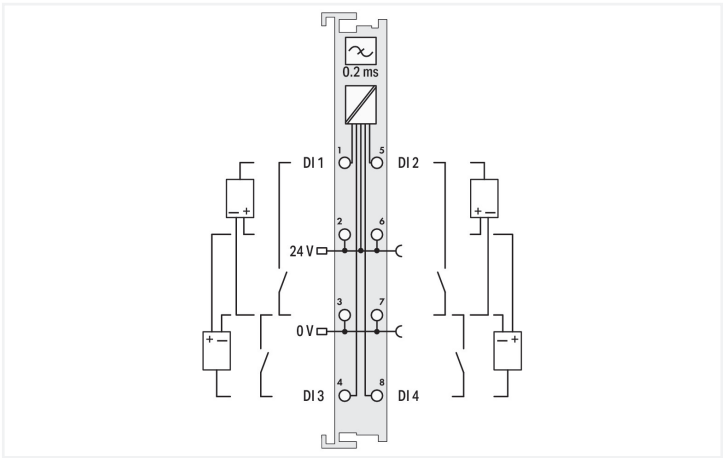
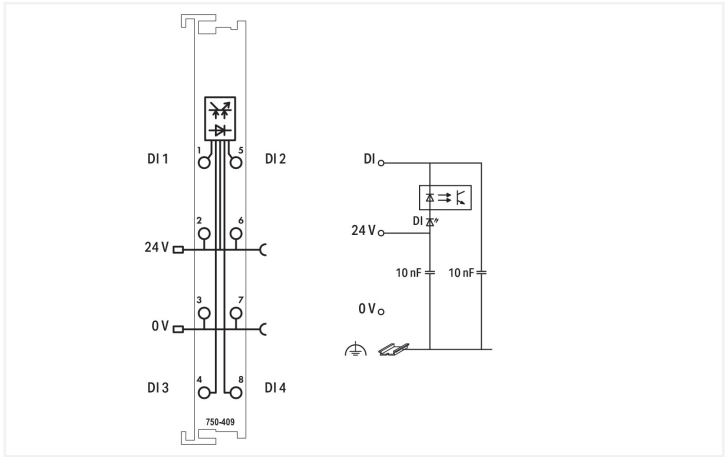




Color: ■ light gray



This digital input module receives control signals from field devices (e.g., sensors).  
Each input module has a noise-rejection filter.  
Field and system levels are electrically isolated.

| Technical data                                |                                                                                                                                                      |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of digital inputs                      | 4                                                                                                                                                    |
| Total number of channels (module)             | 4                                                                                                                                                    |
| Signal type                                   | Digital                                                                                                                                              |
| Signal type (voltage)                         | 24 VDC                                                                                                                                               |
| Sensor connection                             | 2 x (2-wire, 3-wire); A suitable field side connection module (e.g., 750-614) must also be used to connect other sensors.                            |
| Input characteristic                          | low-side switching                                                                                                                                   |
| Input filter                                  | 0.2 ms                                                                                                                                               |
| Input current per channel for signal (0) typ. | 7 mA                                                                                                                                                 |
| Voltage range for signal (0)                  | (U <sub>V</sub> - 5 V) ... U <sub>V</sub> DC                                                                                                         |
| Voltage range for signal (1)                  | -3 VDC ... (U <sub>V</sub> - 15 V)                                                                                                                   |
| Sensor supply                                 | 24 VDC                                                                                                                                               |
| Input data width (internal) max.              | 4 bits                                                                                                                                               |
| Supply voltage (system)                       | 5 VDC; via data contacts                                                                                                                             |
| Current consumption (5 V system supply)       | 5 mA                                                                                                                                                 |
| Supply voltage (field)                        | 24 VDC (-15 ... +20 %); via power jumper contacts (power supply via blade contact; transmission (field side supply voltage only) via spring contact) |
| Isolation                                     | 500 V system/field                                                                                                                                   |
| Indicators                                    | LED (A-D) green: Status DI 1 ... DI 4                                                                                                                |
| Number of incoming power jumper contacts      | 2                                                                                                                                                    |



| Technical data                                    |      |
|---------------------------------------------------|------|
| Number of outgoing power jumper contacts          | 2    |
| Current carrying capacity (power jumper contacts) | 10 A |

| Connection data                 |                                   |
|---------------------------------|-----------------------------------|
| Connection technology: I/O      | 8 x CAGE CLAMP® (inputs)          |
| Connectable conductor materials | Copper                            |
| Connection type                 | Input                             |
| 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          | 1.205 MJ                     |
| Weight             | 46.2 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                                                               | Per IEC 60068-2-6                                                                                      |
| Shock resistance                                                                   | 15g per IEC 60068-2-27                                                                                 |
| EMC immunity to interference                                                       | per EN 61000-6-2                                                                                       |
| EMC emission of interference                                                       | per 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 (I/O System) |
| PU (SPU)              | 1 pcs           |
| Packaging type        | Box             |
| Country of origin     | DE              |
| GTIN                  | 4045454392765   |
| Customs tariff number | 85389099990     |

| Product Classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 32151705             |
| eCl@ss 10.0            | 27-24-26-04          |
| eCl@ss 9.0             | 27-24-26-04          |
| ETIM 9.0               | EC001599             |
| ETIM 8.0               | EC001599             |
| 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                            | 6(c)<br>7(a)<br>7(c)-I<br>7(c)-II         |
| SCIP notification number (Austria)        | 13808a23-c9b9-4d10-9659-648aefa2d78a      |
| SCIP notification number (Belgium)        | 34c3531b-941d-40ae-8e9b-afdea2c192aa      |
| SCIP notification number (Bulgaria)       | d5f4278f-63d7-4fd8-afe7-124804b21df1      |
| SCIP notification number (Czech Republic) | 3ebdd006-4b5a-42c8-a088-0babb2aefbfb      |
| SCIP notification number (Denmark)        | 8db96fd7-5ab5-460f-8e61-fde1e56b0cd4      |
| SCIP notification number (Finland)        | 73d23eb6-3488-42c1-a900-fb20e0bbc341      |
| SCIP notification number (France)         | 7d93b4ad-4466-4048-8528-87cca91bce5e      |
| SCIP notification number (Germany)        | ea5f365d-ed45-4fee-a578-695abe64c2c7      |
| SCIP notification number (Hungary)        | dd998ba5-8b12-46c1-ae3-8d3aadf51960       |
| SCIP notification number (Italy)          | fb81b098-cd07-4ed5-8968-8787c5be7c3c      |
| SCIP notification number (Netherlands)    | d5c3c820-4398-4cfb-bffe-fa9af3c17c41      |
| SCIP notification number (Poland)         | fe5a2b1d-6e0a-4651-ae85-bc4b1471a6b9      |
| SCIP notification number (Romania)        | 83b1ab9f-5fb3-414a-a521-45f0de8867d0      |
| SCIP notification number (Sweden)         | a1b039f7-08b0-4da7-b02e-d55a79732c03      |

| Approvals / Certificates                                                                                                                                                                                                                                   |                        |                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------|
| General approvals                                                                                                                                                                                                                                          |                        | General approvals                                                 |
|    |                        | UL<br>Underwriters Laboratories<br>Inc. (ORDINARY LOCATI-<br>ONS) |
|                                                                                                                                                                                                                                                            |                        | UL 508                                                            |
|                                                                                                                                                                                                                                                            |                        | E175199                                                           |
| Approval                                                                                                                                                                                                                                                   | Standard               | Certificate Name                                                  |
| EAC<br>GZO Almaty Standart                                                                                                                                                                                                                                 | TP TC 020/2011         | EAC CoC 03083                                                     |
| KC<br>National Radio Research<br>Agency                                                                                                                                                                                                                    | Article 58-2, Clause 3 | MSIP-REM-W43-DIM750                                               |



Declarations of conformity and manufacturer's declarations

| Approval                                                | Standard | Certificate Name |
|---------------------------------------------------------|----------|------------------|
| EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |
| UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |

Approvals for hazardous areas

PTB  
0102

CCC

IECEX

INMETRO

TÜV Rheinland  
OCF 0054

DEKRA 8505

UKEX

| 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>TÜV Rheinland do Brasil 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 Inc. (HAZARDOUS LOCATIONS) | UL 121201   | E198726                                    |

Downloads

Environmental Product Compliance

| Compliance Search                           |
|---------------------------------------------|
| Environmental Product<br>Compliance 750-409 |

Documentation

| Manual                                 |                       |                   |                                                                                                     |
|----------------------------------------|-----------------------|-------------------|-----------------------------------------------------------------------------------------------------|
| Product Manual 4-channel, 24VDC, 0.2ms | V 2.0.0<br>07.09.2022 | pdf<br>2813.64 KB | <a href="#"></a> |
| System Manual Series 750/753           |                       |                   | <a href="#"></a> |

| System Description                                      |                  |                                                                                                       |
|---------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------|
| 750/753 Series I/O-System – General Product Information | pdf<br>953.35 KB | <a href="#"></a> |
| Overview on WAGO-I/O-SYSTEM 750 approvals               | pdf<br>770.48 KB | <a href="#"></a> |

| Bid Text |            |                 |                                                                                                     |
|----------|------------|-----------------|-----------------------------------------------------------------------------------------------------|
| 750-409  | 12.07.2017 | doc<br>25.00 KB | <a href="#"></a> |
| 750-409  | 19.02.2019 | xml<br>3.85 KB  | <a href="#"></a> |

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



| CAD/CAE-Data         |                           |
|----------------------|---------------------------|
| CAD data             | CAE data                  |
| 2D/3D Models 750-409 | EPLAN Data Portal 750-409 |
|                      | WSCAD Universe 750-409    |
|                      | ZUKEN Portal 750-409      |

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

| 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.: 210-508</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored | <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.: 210-506</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored       | <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.: 210-115</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 |
| <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.: 210-504</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored | <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          | <br><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                                                                                                            |
| <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         |
| <br><b>Item No.: 2009-145/000-002</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow | <br><b>Item No.: 248-501/000-006</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue                                  | <br><b>Item No.: 248-501/000-007</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray                                    | <br><b>Item No.: 248-501/000-023</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green                                  |
| <br><b>Item No.: 248-501/000-017</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green                             | <br><b>Item No.: 248-501/000-012</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange                                | <br><b>Item No.: 248-501/000-005</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red                                     | <br><b>Item No.: 248-501/000-024</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet                                 |
| <br><b>Item No.: 248-501</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white                                           | <br><b>Item No.: 248-501/000-002</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow                                |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                         |

1.1.2.3 Marker carrier

|                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 750-103</b><br>Group marker carrier |
|-----------------------------------------------------------------------------------------------------------------------------------------|

1.1.3 Potential distribution

1.1.3.1 Potential distribution module

|                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 750-614</b><br>Potential Distribution |
|-------------------------------------------------------------------------------------------------------------------------------------------|

1.1.4 Shield termination

1.1.4.1 Shield clamping saddles

|                                                                                                                                                                                                      |                                                                                                                                                                     |                                                                                                                                                                                                      |                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 790-108</b><br>Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm  | <br><b>Item No.: 790-208</b><br>Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm | <br><b>Item No.: 790-116</b><br>Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm | <br><b>Item No.: 790-216</b><br>Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm |
| <br><b>Item No.: 790-124</b><br>Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm | <br><b>Item No.: 790-220</b><br>Shield clamping saddle; 30 mm wide; 6 ... 20 mm  | <br><b>Item No.: 790-140</b><br>Shield clamping saddle; diameter of compatible conductor                          |                                                                                                                                                                        |



1.1.5 Supply module

1.1.5.1 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

1.1.6 System enclosure

1.1.6.1 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