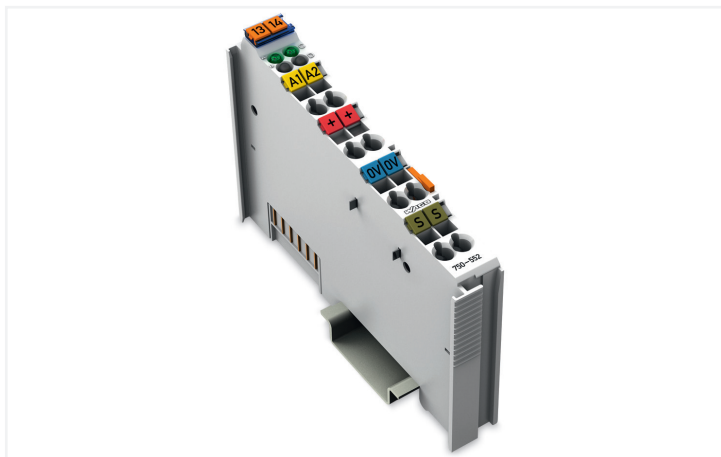


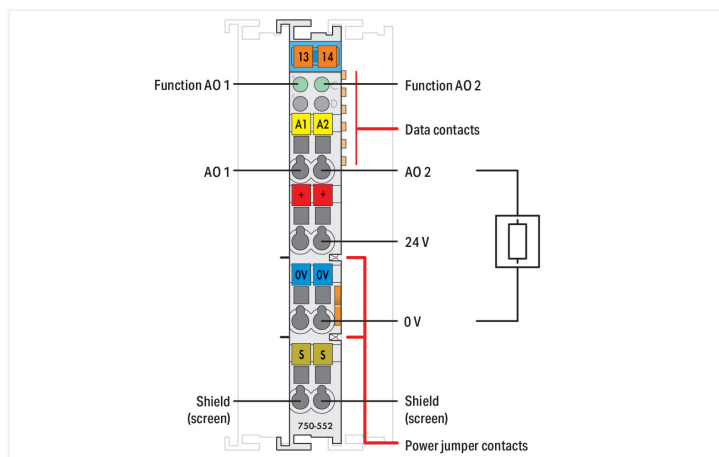
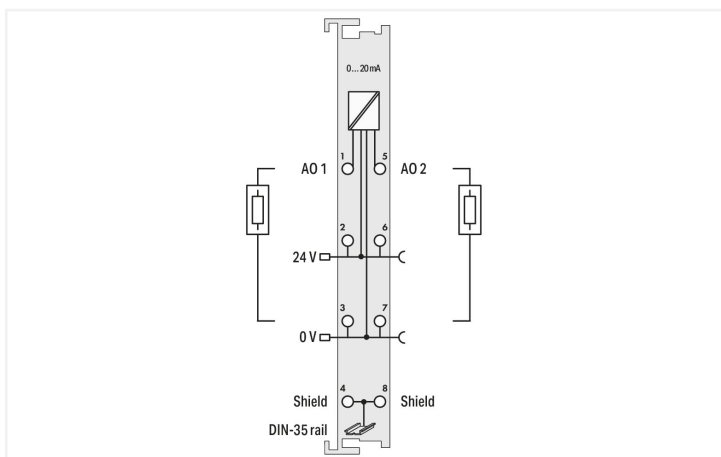
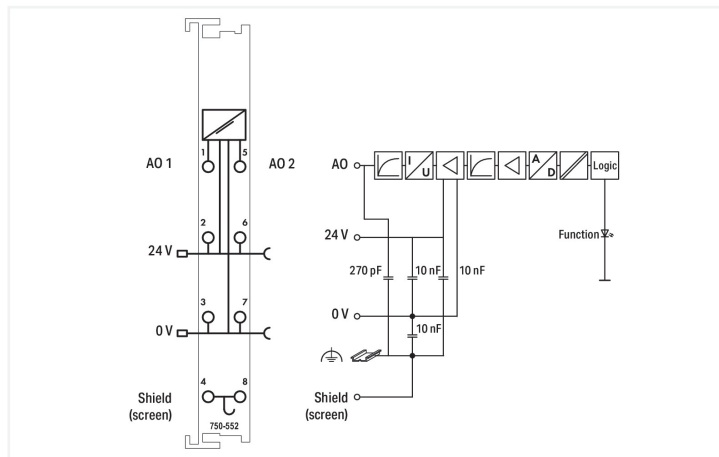
# Data Sheet | Item Number: 750-552

2-channel analog output; 0 ... 20 mA

<https://www.wago.com/750-552>



Color: ■ light gray



This analog output module generates standard 0–20 mA signals. The output signal is electrically isolated and transmitted with a resolution of 12 bits. Power is derived from the field side.

## Technical data

|   |   |
|---|---|
| Number of analog outputs                                | 2   |
| Total number of channels (module)                       | 2   |
| Signal type   | Current   |
| Signal type (current)                                   | 0 ... 20 mADC   |
| Actuator connection                                     | 2 x (2-wire)  |
| Resolution [bit]  | 12 bits   |
| Data width  | 2 x 16-bit data; 2 x 8-bit control/status (optional)  |
| Load impedance (current output)                         | ≤ 600 Ω   |
| Conversion time (typ.)                                  | 2 ms  |
| Output error, reference temperature                     | 25 °C   |
| Output error, deviation (max.) of the upper-range value | 0.1 %   |
| Temperature error (max.) of the output range value      | 0.01 %/K  |
| Linearity   | ±10 µA  |
| Supply voltage (system)                                 | 5 VDC; via data contacts  |
| Current consumption (5 V system supply)                 | 70 mA   |
| Supply voltage (field)                                  | 24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact) |
| Isolation   | 500 V system/field  |
| Indicators  | LED (A, C) green: Function AO 1, AO 2   |
| Number of incoming power jumper contacts                | 2   |

### Technical data

|  |   |
|--|---|
| Number of outgoing power jumper contacts | 2 |
|--|---|

### Connection data

|                                       |  |
|---------------------------------------|--|
| Connection technology: inputs/outputs | 8 x CAGE CLAMP®                              |
| Connection type 1                     | Inputs/outputs                               |
| Solid conductor                       | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG |
| Fine-stranded conductor               | 0.08 ... 2.5 mm <sup>2</sup> / 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 |
|---------------|-------------|

### Material data

|                    |                              |
|--------------------|------------------------------|
| Color              | light gray                   |
| Housing material   | Polycarbonate; polyamide 6.6 |
| Fire load          | 1.028 MJ                     |
| Weight             | 50.1 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 61000-6-4, 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) |
| eCl@ss 10.0           | 27-24-26-01     |
| eCl@ss 9.0            | 27-24-26-01     |
| ETIM 8.0              | EC001596        |
| ETIM 7.0              | EC001596        |
| PU (SPU)              | 1 pcs           |
| Packaging type        | Box             |
| Country of origin     | DE              |
| GTIN                  | 4045454393601   |
| Customs tariff number | 85389099990     |

| Environmental Product Compliance          |                                      |
|---|--------------------------------------|
| CAS-No.                                   | 1317-36-8<br>7439-92-1               |
| REACH Candidate List Substance            | 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)        | 8d6f9d3f-c9a9-457d-8080-1597d446531c |
| SCIP notification number (Belgium)        | 10445f10-3331-4925-8c06-6131b34546f4 |
| SCIP notification number (Bulgaria)       | 2dc12cde-3e99-4d2a-a038-55e96b797d7e |
| SCIP notification number (Czech Republic) | 3d449828-c3e0-4b1d-ae3b-a8a643180a53 |
| SCIP notification number (Denmark)        | b76f588c-de8e-4edb-8e33-3d72c3881457 |
| SCIP notification number (Finland)        | 32ac51bc-a0d0-4a13-9a86-2d632e39bbb2 |
| SCIP notification number (France)         | 3a36662c-a9e3-444f-a2be-7e62a8591e0b |
| SCIP notification number (Germany)        | 5bb7a5c1-e4e1-4554-bccb-c49aa13774be |
| SCIP notification number (Hungary)        | fdc763be-9990-4f16-a57e-f615a139b4f7 |
| SCIP notification number (Italy)          | e1d50dab-6710-494e-bc02-3f6c1f5773b0 |
| SCIP notification number (Netherlands)    | f51a6d02-5668-4c4b-9c42-a96ebee4d071 |
| SCIP notification number (Poland)         | cb5c1d96-3327-4d0c-933d-20383bd67db1 |
| SCIP notification number (Romania)        | d3a99d98-d181-4c15-92f2-c33399d7ba22 |
| SCIP notification number (Sweden)         | 3c62fe7d-c73f-442a-a3e4-de2449a6dc5c |

**Approvals / Certificates**

| General approvals  |                        |                     |
|--|------------------------|---------------------|
|   |                        |                     |
| Approval   | Standard               | Certificate Name    |
| KC<br>National Radio Research Agency   | Article 58-2, Clause 3 | MSIP-REM-W43-AOM750 |
| UL<br>Underwriters Laboratories Inc. (ORDINARY LOCATIONS)  | UL 508                 | E175199 Sec.1       |

| Declarations of conformity and manufacturer's declarations |          |                  |
|--|----------|------------------|
| 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      |
| PRS<br>Polski Rejestr Statków                                   | -                      | TE/2236/880590/19 |
| 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)                   |
| EAC<br>Brjansker Zertifizierungs-<br>stelle                        | TP TC 012/2011 | EAC RU C-DE.AM02.<br>B.00163/19 (2Ex nA IIC T4 Gc X) |
| 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<br>Ltda.                        | IEC 60079-0    | BR-Ex_TUV 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 Sec.1  |

Downloads

Environmental Product Compliance

| Compliance Search  |
|--|
| Environmental Product Compliance 750-552 <a href="#">↓</a> |

Documentation

| Manual                                |                       |                   |                   |
|---------------------------------------|-----------------------|-------------------|-------------------|
| System Manual WAGO I/O System 750/753 | V 3.3.3<br>29.08.2023 | pdf<br>8512.61 KB | <a href="#">↓</a> |
| System Manual Series 750/753          |                       |                   | <a href="#">↓</a> |
| Product Manual 2-channel, 0-20mA      | V 1.2.0               | pdf<br>2009.36 KB | <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                |            |                  |                   |
|-------------------------|------------|------------------|-------------------|
| 750-552                 | 19.02.2019 | xml<br>4.07 KB   | <a href="#">↓</a> |
| 750-552                 | 05.03.2019 | docx<br>16.63 KB | <a href="#">↓</a> |
| ausschreiben.de 750-552 |            |                  | <a href="#">↓</a> |

| Instruction Leaflet             |            |                  |                   |
|---------------------------------|------------|------------------|-------------------|
| CCC Ex (Additional information) | 26.04.2023 | pdf<br>159.76 KB | <a href="#">↓</a> |

**CAD/CAE-Data**

| CAD data             | CAE data                  |
|----------------------|---------------------------|
| 2D/3D Models 750-552 | EPLAN Data Portal 750-552 |
|                      | WSCAD Universe 750-552    |
|                      | ZUKEN Portal 750-552      |

**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**



**Item No.: 210-196**  
Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored



**Item No.: 210-198**  
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored



**Item No.: 210-508**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored



**Item No.: 210-197**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored



**Item No.: 210-506**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored



**Item No.: 210-114**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored



**Item No.: 210-118**  
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored



**Item No.: 210-115**  
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



**Item No.: 210-112**  
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



**Item No.: 210-504**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored



**Item No.: 210-113**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored



**Item No.: 210-505**  
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.: 750-106**  
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 Shield termination

1.1.3.1 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                          |  |

### 1.1.4 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