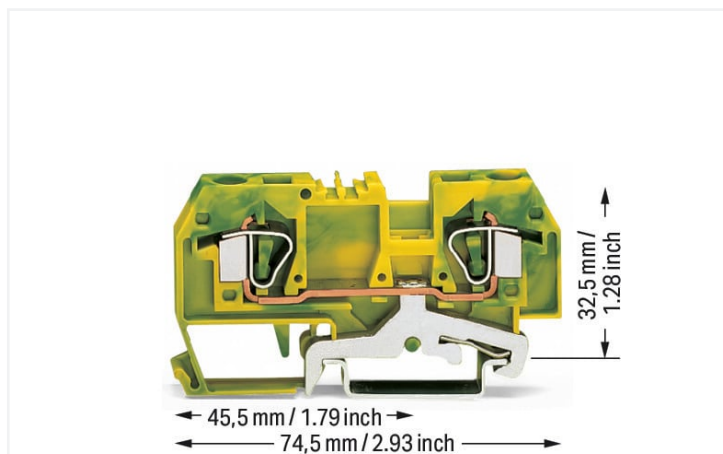


## Data Sheet | Item Number: 282-907/999-950

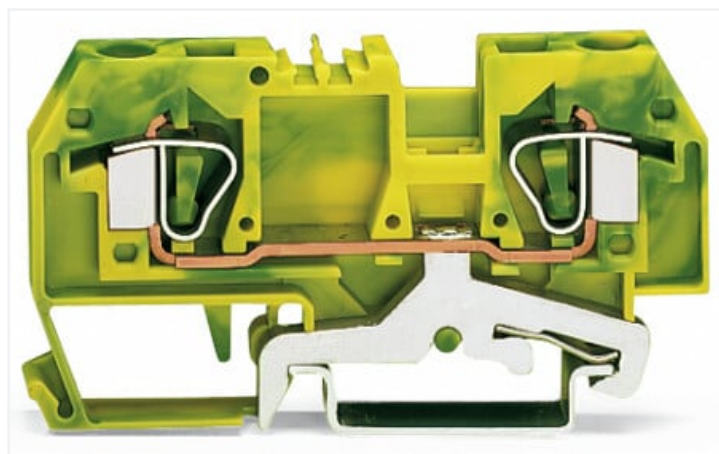
2-conductor ground terminal block; 6 mm<sup>2</sup>; suitable for Ex e II applications; center marking; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 6,00 mm<sup>2</sup>; green-yellow

<https://www.wago.com/282-907/999-950>

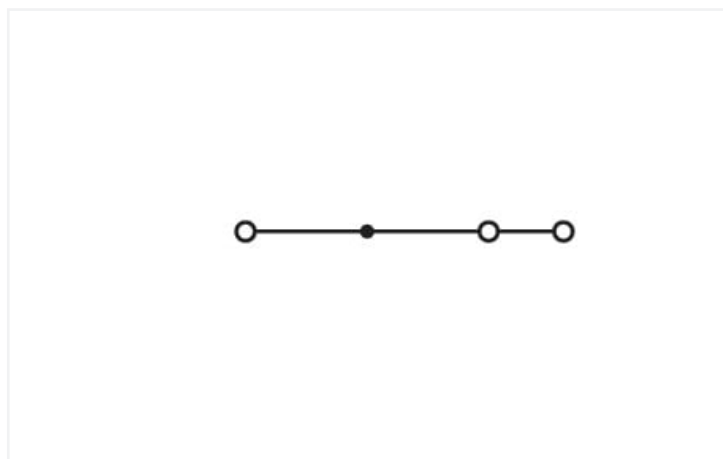


Color: ■ green-yellow

Similar to illustration



Similar to illustration



Similar to illustration

### Electrical data

| Ratings per          | IEC/EN 60947-7-2 |     |    |
|----------------------|------------------|-----|----|
|                      | III              | III | II |
| Overvoltage category | III              | III | II |
| Pollution degree     | 3                | 2   | 2  |
| Nominal voltage      | -                | -   | -  |
| Rated surge voltage  | -                | -   | -  |
| Rated current        | -                | -   | -  |

### Ex information

|                           |   |
|---------------------------|---|
| Reference hazardous areas | See application instructions in section "Knowledge and Downloads – Documentation – Additional Information: Technical Section; Technical Explanations" |
|---------------------------|---|

### Connection data

|                            |   |
|----------------------------|---|
| Connection points          | 2 |
| Total number of potentials | 1 |
| Number of levels           | 1 |

### Connection 1

|                                 |   |
|---------------------------------|---|
| Connection technology           | CAGE CLAMP®                               |
| Actuation type                  | Operating tool                            |
| Connectable conductor materials | Copper                                    |
| Solid conductor                 | 0.2 ... 6 mm <sup>2</sup> / 24 ... 10 AWG |
| Fine-stranded conductor         | 0.2 ... 6 mm <sup>2</sup> / 24 ... 10 AWG |
| Strip length                    | 12 ... 13 mm / 0.47 ... 0.51 inches       |
| Wiring direction                | Front-entry wiring                        |

### Physical data

|                                   |                        |
|-----------------------------------|------------------------|
| Width                             | 8 mm / 0.315 inches    |
| Height                            | 74.5 mm / 2.933 inches |
| Depth from upper-edge of DIN-rail | 32.5 mm / 1.28 inches  |

### Mechanical data

|               |                 |
|---------------|-----------------|
| Design        | horizontal type |
| Mounting type | DIN-35 rail     |
| Marking level | Center marking  |

### Material data

|                             |  |
|-----------------------------|--|
| Note (material data)        | <a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| Color                       | green-yellow   |
| Material group              | I  |
| Insulation material         | Polyamide (PA66)   |
| Flammability class per UL94 | V0   |
| Fire load                   | 0.248 MJ   |
| Weight                      | 22 g   |

### Environmental requirements

|                                  |                 |
|----------------------------------|-----------------|
| Processing temperature           | -35 ... +85 °C  |
| Continuous operating temperature | -60 ... +105 °C |

### Commercial data

|                       |               |
|-----------------------|---------------|
| eCl@ss 10.0           | 27-14-11-41   |
| eCl@ss 9.0            | 27-14-11-41   |
| ETIM 8.0              | EC000901      |
| ETIM 7.0              | EC000901      |
| PU (SPU)              | 50 pcs        |
| Packaging type        | Box           |
| Country of origin     | DE            |
| GTIN                  | 4044918472371 |
| Customs tariff number | 85369010000   |

### Environmental Product Compliance

|   |                                      |
|---|--------------------------------------|
| CAS-No.                                   | 7439-92-1                            |
| REACH Candidate List Substance            | Lead                                 |
| RoHS Compliance Status                    | Compliant,With Exemption             |
| RoHS Exemption                            | 7(a)<br>7(c)-I<br>7(c)-II            |
| SCIP notification number (Austria)        | b342a5b1-065e-4db8-92ed-c02c922fbd04 |
| SCIP notification number (Belgium)        | df8b1d63-9343-42c4-bef2-1e8a3e0c1769 |
| SCIP notification number (Bulgaria)       | ea6cefa0-b367-4722-9f26-b57f4682907f |
| SCIP notification number (Czech Republic) | de0406cf-43b7-47c1-a69e-5d1f2ae6494e |
| SCIP notification number (Denmark)        | baf70c2d-317e-49b2-a508-80b8f4729ae9 |
| SCIP notification number (Finland)        | 807753fd-eba1-45ae-af79-4adeeabbd293 |
| SCIP notification number (France)         | 1a4d9182-9107-45fd-906c-f27223967a18 |
| SCIP notification number (Germany)        | e0d39aea-f884-4ae8-bb56-a810a7fe55cf |
| SCIP notification number (Hungary)        | 182f5d2a-005b-4c5f-990e-0532c924a8cc |
| SCIP notification number (Italy)          | 36f1e725-ada7-4890-a82b-51d7cafb0d0  |
| SCIP notification number (Netherlands)    | b6bee412-d3e8-45e9-88ab-fb1fe41a51d0 |

## Environmental Product Compliance

|                                    |                                      |
|------------------------------------|--------------------------------------|
| SCIP notification number (Poland)  | 88ed2121-3372-4618-9dae-45e199447f72 |
| SCIP notification number (Romania) | 1f91300a-0fc8-4fab-8625-62627cea0d19 |
| SCIP notification number (Sweden)  | 30607b01-21db-495b-9d5f-46c6e5df84d7 |

## Approvals / Certificates

### General approvals



| Approval                              | Standard      | Certificate Name |
|---------------------------------------|---------------|------------------|
| CCA<br>DEKRA Certification B.V.       | EN 60947      | NTR NL 7894      |
| CSA<br>DEKRA Certification B.V.       | C22.2 No. 158 | 1505033          |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947      | 71-120778        |
| UL<br>UL International Germany GmbH   | UL 1059       | E45172           |

### Declarations of conformity and manufacturer's declarations

| Approval   | Standard | Certificate Name |
|--|----------|------------------|
| ATEX-Attestation of Conformity<br>WAGO GmbH & Co. KG | -        | -                |
| 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 Shipping               | EN 60947 | 20-HG1941090-PDA |
| BV<br>Bureau Veritas S.A.                        | EN 60947 | 07436/F0 BV      |
| DNV GL<br>Det Norske Veritas, Germanischer Lloyd | -        | TAE00001V2       |

### Approvals for hazardous areas



| Approval   | Standard       | Certificate Name   |
|--|----------------|--|
| AEx<br>UL International Germany GmbH c/o Physikalisch Technische Bundesanstalt | UL 60079       | E185892 (AEx e II resp. Ex e II)                               |
| ATEX<br>Physikalisch Technische Bundesanstalt (PTB)                            | -              | PTB 98 ATEX 3131 U (II 2 G Ex eb IIC Gb bzw. I M 2 Ex eb I Mb) |
| CCC<br>CNEX  | GB/T 3836.3    | 2020312313000232 (Ex eb IIC Gb, Ex eb I Mb)                    |
| EAC<br>Brjansker Zertifizierungsstelle   | TP TC 012/2011 | RU C-DE.AM02. B.00127/19                                       |
| IECEx<br>Physikalisch Technische Bundesanstalt                                 | IEC 60079-0    | IECEx PTB 03.0004U (Ex eb IIC Gb or Ex eb I Mb)                |

## Downloads

### Environmental Product Compliance

#### Compliance Search

Environmental Product Compliance  
282-907/999-950



Documentation

Additional Information

|                   |                   |                   |
|-------------------|-------------------|-------------------|
| Technical Section | pdf<br>2240.62 KB | <a href="#">↓</a> |
|-------------------|-------------------|-------------------|

Bid Text

|                 |            |                 |                   |
|-----------------|------------|-----------------|-------------------|
| 282-907/999-950 | 19.02.2019 | xml<br>3.10 KB  | <a href="#">↓</a> |
| 282-907/999-950 | 28.02.2017 | doc<br>24.00 KB | <a href="#">↓</a> |

CAD/CAE-Data

CAD data

|                                 |                   |
|---------------------------------|-------------------|
| 2D/3D Models<br>282-907/999-950 | <a href="#">↓</a> |
|---------------------------------|-------------------|

CAE data

|                                      |                   |
|--------------------------------------|-------------------|
| EPLAN Data Portal<br>282-907/999-950 | <a href="#">↓</a> |
| WSCAD Universe<br>282-907/999-950    | <a href="#">↓</a> |
| ZUKEN Portal<br>282-907/999-950      | <a href="#">↓</a> |

1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate



**Item No.: 282-330**  
End and intermediate plate; 2.5 mm thick; light gray



**Item No.: 209-191**  
Separator for Ex e/Ex i applications; 3 mm thick; 120 mm wide; orange



**Item No.: 209-192**  
Separator for Ex e/Ex i applications; 3 mm thick; 125.5 mm wide; orange



**Item No.: 282-331**  
Separator plate; 2 mm thick; oversized; light gray

1.2 Optional Accessories

1.2.1 DIN-rail

1.2.1.1 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

## 1.2.2 Ferrule

### 1.2.2.1 Ferrule



**Item No.: 216-262**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



**Item No.: 216-263**

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



**Item No.: 216-264**

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



**Item No.: 216-266**

Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



**Item No.: 216-267**

Ferrule; Sleeve for 4 mm<sup>2</sup> / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

## 1.2.3 Installation

### 1.2.3.1 Cover



**Item No.: 709-153**

Cover; Type 1; suitable for cover carrier, type 1; 1 m long; transparent

### 1.2.3.2 Cover carrier



**Item No.: 709-167**

Cover carrier; Type 1; incl. fixing/retaining screws and knurled nut; suitable for 279 to 282 and 880 Series rail-mounted terminal blocks; suitable for 264 Series miniature rail-mounted terminal blocks; suitable for 270 Series sensor and actuator terminal blocks; gray

### 1.2.3.3 Mounting accessories



**Item No.: 209-106**

Mounting carrier; for isolated mounting on DIN 35 rails; gray



**Item No.: 249-116**

Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

## 1.2.4 Jumper

### 1.2.4.1 Jumper



**Item No.: 282-402**

Jumper; insulated; gray



**Item No.: 282-409**

Jumper; insulated; gray



**Item No.: 282-424**

Jumper; insulated; orange



**Item No.: 282-422**

Jumper; insulated; yellow-green



**Item No.: 709-110**

Wire commoning chain; 2.5 mm<sup>2</sup>; insulated; black



**Item No.: 709-111**

Wire commoning chain; 2.5 mm<sup>2</sup>; insulated; black



**Item No.: 709-112**

Wire commoning chain; 2.5 mm<sup>2</sup>; insulated; black

## 1.2.5 Marking

### 1.2.5.1 Group marker carrier



**Item No.: 249-105**

Group marker carrier; gray

### 1.2.5.2 Marker



**Item No.: 793-5501/000-006**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue



**Item No.: 793-5501/000-014**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown



**Item No.: 793-5501/000-007**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray



**Item No.: 793-5501/000-023**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green



**Item No.: 793-5501/000-017**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green



**Item No.: 793-5501/000-012**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange



**Item No.: 793-5501/000-005**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red



**Item No.: 793-5501/000-024**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet



**Item No.: 793-5501**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white



**Item No.: 793-5501/000-002**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



**Item No.: 793-501/000-006**

WMB marking card; as card; not stretchable; plain; snap-on type; blue



**Item No.: 793-501/000-007**

WMB marking card; as card; not stretchable; plain; snap-on type; gray



**Item No.: 793-501/000-023**

WMB marking card; as card; not stretchable; plain; snap-on type; green



**Item No.: 793-501/000-017**

WMB marking card; as card; not stretchable; plain; snap-on type; light green



**Item No.: 793-501/000-012**

WMB marking card; as card; not stretchable; plain; snap-on type; orange



**Item No.: 793-501/000-005**

WMB marking card; as card; not stretchable; plain; snap-on type; red



**Item No.: 793-501/000-024**

WMB marking card; as card; not stretchable; plain; snap-on type; violet



**Item No.: 793-501**

WMB marking card; as card; not stretchable; plain; snap-on type; white



**Item No.: 793-501/000-002**

WMB marking card; as card; not stretchable; plain; snap-on type; yellow



**Item No.: 2009-115/000-006**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue



**Item No.: 2009-115/000-007**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray



**Item No.: 2009-115/000-023**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green



**Item No.: 2009-115/000-017**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green



**Item No.: 2009-115/000-012**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange



**Item No.: 2009-115/000-024**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet



**Item No.: 2009-115**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



**Item No.: 2009-115/000-002**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

## 1.2.6 Protective warning marker

### 1.2.6.1 Cover



**Item No.: 282-415**

Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

## 1.2.7 Tool

### 1.2.7.1 Operating tool

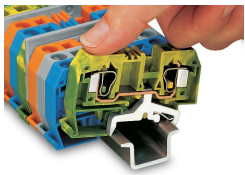


**Item No.: 210-721**

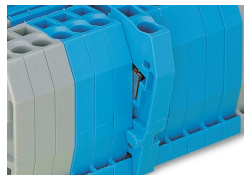
Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured

## Installation Notes

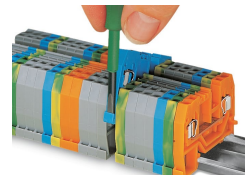
### Installation



Snapping a ground conductor block onto the DIN-rail automatically makes a direct electrical connection to the rail.

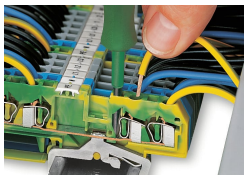


Quick assembly keys prevent reverse mounting.



Removing a terminal block from the assembly.

## Conductor termination



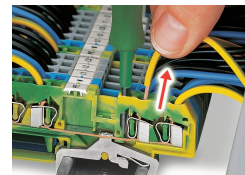
**CAGE CLAMP® connection**

Inserting a conductor.



**CAGE CLAMP® connection**

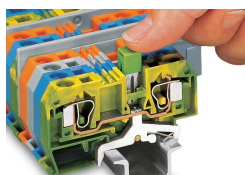
Inserting a conductor. With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross-section.



**CAGE CLAMP® connection**

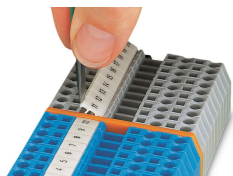
Removing a solid conductor.

## Commoning



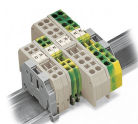
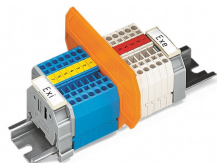
Commoning ground conductor terminal blocks with through terminal blocks is possible in one direction only (via rear side of terminal block) using adjacent jumpers. WAGO recommends using yellow-green adjacent jumpers in addition to the required marking of these blocks.

## Marking



Labeling via WMB Multi Marking System.

## Ex application



### Separator plate for Ex e/Ex i applications

According to EN 50020, a minimum distance of 50 mm must be kept between live parts of Ex e and Ex i circuits. The use of Ex e/Ex i separators is a space-saving solution when Ex e and Ex i terminal blocks are mounted on a common DIN-rail.

For 279 ... 282 Series:

209-190 for 2-conductor terminal blocks

209-191 for 2-, 3-, 4-conductor terminal blocks

### End and intermediate plate

In order to meet creepage and clearance requirements for Ex e applications, it is necessary to insert an end or intermediate plate between a through and a ground conductor terminal block.