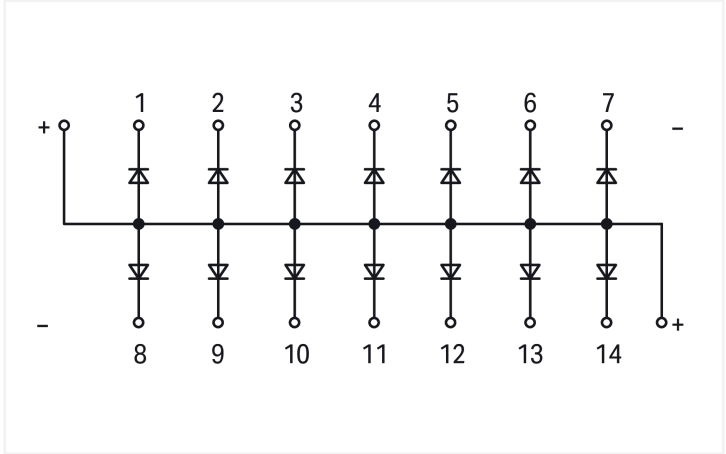
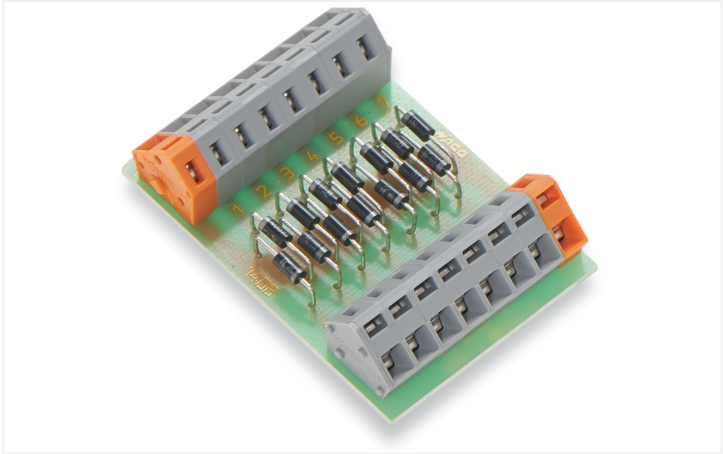




| Notes              |                                                                                                                                                                                                                                                                               |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety Information | <b>Notice!</b> Accessible live parts! Protection against accidental contact must be provided by the system installer, e.g., using a WAGO 709 Series Cover (see "Accessories") or a similar cover. The installation guidelines must be followed for each specific application. |
| Note               | Max. permissible forward current per the manufacturer's data sheet. With all diodes loaded, the continuous current must be reduced to 0.45 A.                                                                                                                                 |

| Electrical data                       |                           |
|---------------------------------------|---------------------------|
| Operating voltage                     | ≤ 250 VAC/VDC             |
| Peak reverse voltage                  | 1000 V                    |
| Type of diode                         | 1N4007; with common anode |
| Number/type of diode/LED              | 14 diodes                 |
| Forward voltage per diode             | 1.1 V                     |
| Forward current per diode (resistive) | 1 A                       |
| Leakage current                       | 50 µA                     |

| Safety and protection |      |
|-----------------------|------|
| Pollution degree      | 2    |
| Protection type       | IP00 |

| Connection data                |                                  |
|--------------------------------|----------------------------------|
| Note (conductor cross-section) | 12 AWG: THHN, THWN               |
| Connection 1                   |                                  |
| Connection technology          | CAGE CLAMP®                      |
| WAGO connector                 | WAGO 236 Series                  |
| Solid conductor                | 0.08 ... 2.5 mm² / 28 ... 12 AWG |
| Fine-stranded conductor        | 0.08 ... 2.5 mm² / 28 ... 12 AWG |
| Strip length                   | 5 ... 6 mm / 0.2 ... 0.24 inches |



| Physical data           |  |                        |
|-------------------------|--|------------------------|
| Width                   |  | 42.5 mm / 1.673 inches |
| Height from the surface |  | 31.5 mm / 1.24 inches  |
| Depth                   |  | 62.5 mm / 2.461 inches |

| Mechanical data |  |                                           |
|-----------------|--|-------------------------------------------|
| Mounting type   |  | Mounting on DIN-rail via DIN-rail adapter |
| Housing design  |  | PCB                                       |

| Material data |  |        |
|---------------|--|--------|
| Fire load     |  | 0 MJ   |
| Weight        |  | 25.3 g |

| Environmental requirements      |  |                         |
|---------------------------------|--|-------------------------|
| Ambient temperature (operation) |  | -25 ... +40 °C          |
| Ambient temperature (storage)   |  | -40 ... +70 °C          |
| Relative humidity               |  | ≤ 85 % (non-condensing) |
| Operating altitude (max.)       |  | 2000 m                  |

| Standards and specifications |  |                |
|------------------------------|--|----------------|
| Standards/specifications     |  | EN 61010-2-201 |

| Commercial data       |  |                          |
|-----------------------|--|--------------------------|
| Product Group         |  | 6 (INTERFACE ELECTRONIC) |
| PU (SPU)              |  | 50 (1) pcs               |
| Packaging type        |  | Box                      |
| Country of origin     |  | DE                       |
| GTIN                  |  | 4045454193027            |
| Customs tariff number |  | 85369010000              |

| Product Classification |  |                      |
|------------------------|--|----------------------|
| UNSPSC                 |  | 39121629             |
| eCl@ss 10.0            |  | 27-14-11-27          |
| eCl@ss 9.0             |  | 27-14-11-49          |
| ETIM 9.0               |  | EC000903             |
| ETIM 8.0               |  | EC000903             |
| ECCN                   |  | NO US CLASSIFICATION |

| Environmental Product Compliance          |  |                                                          |
|-------------------------------------------|--|----------------------------------------------------------|
| CAS-No.                                   |  | 7439-92-1<br>79-94-7                                     |
| REACH Candidate List Substance            |  | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol<br>Lead |
| RoHS Compliance Status                    |  | Compliant,With Exemption                                 |
| RoHS Exemption                            |  | 7(a)                                                     |
| SCIP notification number (Austria)        |  | bb8a0b0e-3964-4120-8e1c-27204a68aba9                     |
| SCIP notification number (Belgium)        |  | d29bd272-bc7c-4a8c-a541-1c0b42b14821                     |
| SCIP notification number (Bulgaria)       |  | 24f739dd-8317-45a7-8980-1510efe55520                     |
| SCIP notification number (Czech Republic) |  | de65635f-189e-4b60-b7b1-48b37fcbce93                     |
| SCIP notification number (Denmark)        |  | 0fc6bb6e-77af-4b34-8aea-9e6aa426b88b                     |
| SCIP notification number (Finland)        |  | 1c32d05a-fa8a-47f3-9632-b7411ac1844c                     |



| Environmental Product Compliance       |                                      |
|----------------------------------------|--------------------------------------|
| SCIP notification number (France)      | 3eb75477-7c50-44a0-9f9e-1eb744efccbc |
| SCIP notification number (Germany)     | 2b15fbc9-2491-4083-af0a-2e06d361f922 |
| SCIP notification number (Hungary)     | f6e7d9c9-e05b-4f92-97a3-0c8a9084acdb |
| SCIP notification number (Italy)       | afc9c10b-6fd0-4112-9ff1-36402180ea5e |
| SCIP notification number (Netherlands) | e42ec1b7-00e6-4fcf-b0f1-63538a9fa38b |
| SCIP notification number (Poland)      | d2f4ac0c-5b1c-402a-8d17-45565173e323 |
| SCIP notification number (Romania)     | 2e4ea159-22f6-4859-80a8-cfcfb994f213 |
| SCIP notification number (Sweden)      | f8922ba3-ecb8-48bc-b661-796ed0b482ad |

Approvals / Certificates

General approvals



| Approval                   | Standard       | Certificate Name |
|----------------------------|----------------|------------------|
| EAC<br>GZO Almaty Standart | TP TC 004/2011 | EAC CoC 03084    |

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 289-121

↓

| Documentation |            |                                               |                       |
|---------------|------------|-----------------------------------------------|-----------------------|
| Bid Text      |            | Instruction Leaflet                           |                       |
| 289-121       | 11.02.2015 | doc<br>25.00 KB                               | ↓                     |
| 289-121       | 19.02.2019 | xml<br>3.50 KB                                | ↓                     |
|               |            | Operation and Assembly Instructions Interface | V 1.0.0<br>02.04.2025 |
|               |            | pdf<br>1246.19 KB                             | ↓                     |

| CAD/CAE-Data         |                           |
|----------------------|---------------------------|
| CAD data             | CAE data                  |
| 2D/3D Models 289-121 | EPLAN Data Portal 289-121 |
|                      | WSCAD Universe 289-121    |
|                      | ZUKEN Portal 289-121      |



|                                            |
|--------------------------------------------|
| 1 Compatible Products                      |
| 1.1 Required Accessories                   |
| 1.1.1 Installation                         |
| 1.1.1.1 Mounting carrier and mounting feet |



|                                                    |                                                                                                                   |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 288-001</b><br>Mounting carrier; gray | <b>Item No.: 288-002</b><br>Universal mounting foot; snap-fit type;<br>suitable for DIN 15, 35 and 32 rails; gray |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|

|                          |
|--------------------------|
| 1.2 Optional Accessories |
| 1.2.1 Ferrule            |
| 1.2.1.1 Ferrule          |



|                                                                                                               |
|---------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-301</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; in-<br>sulated; electro-tin plated; yellow |
|---------------------------------------------------------------------------------------------------------------|



|                                                                                                               |
|---------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-321</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; in-<br>sulated; electro-tin plated; yellow |
|---------------------------------------------------------------------------------------------------------------|



|                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-302</b><br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; in-<br>sulated; electro-tin plated; light turquoise |
|------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-322</b><br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; in-<br>sulated; electro-tin plated; light turquoise |
|------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-201</b><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-<br>sulated; electro-tin plated; electrolytic<br>copper; acc. to DIN 46228, Part 4/09.90; white |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-241</b><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-<br>sulated; electro-tin plated; electrolytic<br>copper; gastight crimped; acc. to DIN<br>46228, Part 4/09.90; white |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                             |
|-------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-221</b><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-<br>sulated; electro-tin plated; white |
|-------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-242</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-<br>sulated; electro-tin plated; electrolytic<br>copper; gastight crimped; acc. to DIN<br>46228, Part 4/09.90; gray |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-262</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-<br>sulated; electro-tin plated; electrolytic<br>copper; gastight crimped; acc. to DIN<br>46228, Part 4/09.90; gray |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                             |
|-------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-202</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-<br>sulated; electro-tin plated; gray |
|-------------------------------------------------------------------------------------------------------------|



|                                                                                                             |
|-------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-222</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-<br>sulated; electro-tin plated; gray |
|-------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-243</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insu-<br>lated; electro-tin plated; electrolytic cop-<br>per; gastight crimped; acc. to DIN 46228,<br>Part 4/09.90; red |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-263</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insu-<br>lated; electro-tin plated; electrolytic cop-<br>per; gastight crimped; acc. to DIN 46228,<br>Part 4/09.90; red |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                         |
|---------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-203</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insu-<br>lated; electro-tin plated; red |
|---------------------------------------------------------------------------------------------------------|



|                                                                                                         |
|---------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-223</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insu-<br>lated; electro-tin plated; red |
|---------------------------------------------------------------------------------------------------------|



|                                                                                                             |
|-------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-204</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; in-<br>sulated; electro-tin plated; black |
|-------------------------------------------------------------------------------------------------------------|



|                                                                                                             |
|-------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-224</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; in-<br>sulated; electro-tin plated; black |
|-------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-244</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; in-<br>sulated; electro-tin plated; electrolytic<br>copper; gastight crimped; acc. to DIN<br>46228, Part 4/09.90; black |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-264</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; in-<br>sulated; electro-tin plated; electrolytic<br>copper; gastight crimped; acc. to DIN<br>46228, Part 4/09.90; black |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 216-284</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; in-<br>sulated; electro-tin plated; electrolytic<br>copper; gastight crimped; acc. to DIN<br>46228, Part 4/09.90; black |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

1.2.2 Installation

1.2.2.1 Cover



**Item No.: 709-153**  
Cover; Type 1; suitable for cover carrier, type 1; 1 m long; transparent

1.2.2.2 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 Marking

1.2.3.1 Marking strip



**Item No.: 210-831**  
Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white



**Item No.: 210-832**  
Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

1.2.4 Tool

1.2.4.1 Operating tool



**Item No.: 210-720**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured