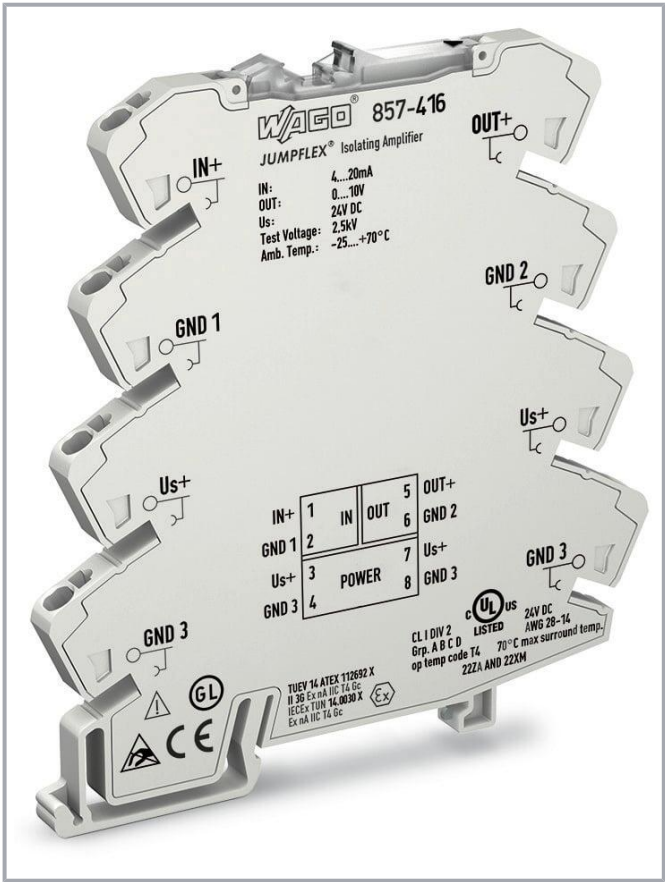


Data sheet | Item number: 857-416

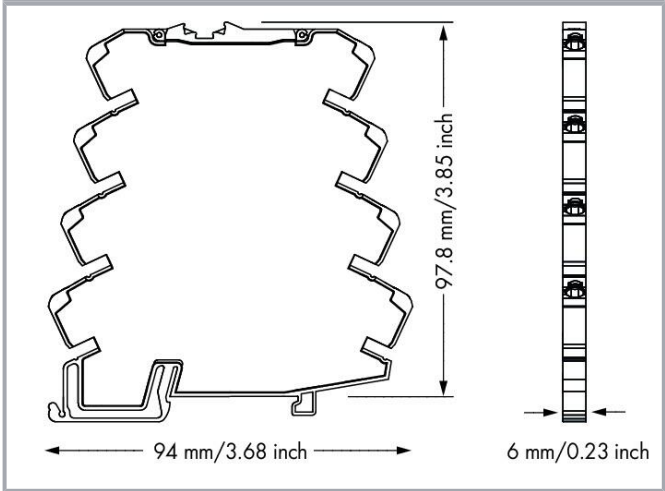
Isolation amplifier; Current input signal; Voltage output signal; Supply voltage: 24 VDC; 6 mm module width; 2,50 mm²



[www.wago.com/857-416](http://www.wago.com/857-416)



|       |   |       |   |       |
|-------|---|-------|---|-------|
| IN+   | 1 | IN    | 5 | OUT+  |
| GND 1 | 2 | OUT   | 6 | GND 2 |
| Us+   | 3 | POWER | 7 | Us+   |
| GND 3 | 4 |       | 8 | GND 3 |



Subject to changes. Please also observe the further product documentation!

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## Item description

### Short description:

WAGO's pre-configured signal conditioner converts, amplifies, filters and electrically isolates analog standard signals.

### Features:

- Input/output: current or voltage signal
- 3-way electrical isolation with 2.5 kV test voltage

## Data

### Notes

|                    |                                                                                                                                                                                                                                                                                          |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety information | Input and output must be safely isolated from any hazardous live parts!                                                                                                                                                                                                                  |
| Note               | <b>Use shielded signal lines!</b><br>Only use shielded signal lines for analog input and output signals. Only then can you ensure that the accuracy and interference immunity specified for the device can be achieved, even in the presence of interference acting on the signal cable. |

## Technical data

### Configuration

|                       |                |
|-----------------------|----------------|
| Configuration options | Pre-configured |
|-----------------------|----------------|

### Input

|                                  |                  |
|----------------------------------|------------------|
| Input signal type                | Current          |
| Input signal (current)           | 4 ... 20 mA      |
| Input resistance (current input) | $\leq 50 \Omega$ |
| Input current (max.)             | 50 mA            |
| Input voltage (max.)             | 30 V             |

### Output (analog)

|                                 |                          |
|---------------------------------|--------------------------|
| Output signal type              | Voltage                  |
| Output signal (voltage)         | 0 ... 10 V               |
| Load impedance (voltage output) | $\geq 2 \text{ k}\Omega$ |

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## Signal processing

|                      |        |
|----------------------|--------|
| Limit frequency      | 100 Hz |
| Step response (typ.) | 3.5 ms |

## Measurement error

|                           |                                   |
|---------------------------|-----------------------------------|
| Transmission error (typ.) | $\leq 0.1\%$ of upper-range value |
| Temperature coefficient   | $\leq 0.01\%/K$                   |

## Power supply

|                                               |                     |
|-----------------------------------------------|---------------------|
| Power supply type                             | 24 VDC              |
| Nominal supply voltage $U_S$                  | DC 24 V             |
| Supply voltage range                          | $\pm 30\%$          |
| Current consumption at nominal supply voltage | $\leq 20\text{ mA}$ |

## Operating data

|                     |                     |
|---------------------|---------------------|
| Current consumption | $\leq 25\text{ mA}$ |
|---------------------|---------------------|

## Safety and protection

|                 |       |
|-----------------|-------|
| Rated voltage   | 300 V |
| Protection type | IP20  |

## Test voltage

|                                    |                       |
|------------------------------------|-----------------------|
| Test voltage (input/output/supply) | AC 3 kV; 50 Hz; 1 min |
|------------------------------------|-----------------------|

## Insulation coordination

|                                             |                                        |
|---------------------------------------------|----------------------------------------|
| Overvoltage category                        | II                                     |
| Pollution degree                            | 2                                      |
| Insulation type (input IN 2.1/relay output) | Functional insulation                  |
| Insulation type (adjacent devices)          | Reinforced insulation (safe isolation) |

## Connection data

|                       |                                              |
|-----------------------|----------------------------------------------|
| Connection technology | Push-in CAGE CLAMP®                          |
| Solid conductor       | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG |

Subject to changes. Please also observe the further product documentation!



|                         |                                              |
|-------------------------|----------------------------------------------|
| Fine-stranded conductor | 0.34 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG |
| Strip length            | 9 ... 10 mm / 0.35 ... 0.39 inches           |

## Physical data

|                                   |                       |
|-----------------------------------|-----------------------|
| Width                             | 6 mm / 0.236 inches   |
| Height                            | 94 mm / 3.701 inches  |
| Depth from upper-edge of DIN-rail | 97.8 mm / 3.85 inches |

## Mechanical data

|               |             |
|---------------|-------------|
| Mounting type | DIN-35 rail |
|---------------|-------------|

## Material data

|           |          |
|-----------|----------|
| Fire load | 0.363 MJ |
| Weight    | 35.8 g   |

## Environmental requirements

|                                       |                                            |
|---------------------------------------|--------------------------------------------|
| Ambient temperature (operation)       | -25 ... +70 °C                             |
| Ambient temperature (storage)         | -40 ... +85 °C                             |
| Processing temperature                | -25 ... +50 °C                             |
| Temperature range of connection cable | $\geq (T_{\text{ambient}} + 10 \text{ K})$ |
| Relative humidity                     | 5 ... 95 % (no condensation permissible)   |
| Operating altitude (max.)             | 2000 m                                     |

## Standards and specifications

|                              |                   |
|------------------------------|-------------------|
| Conformity marking           | CE                |
| EMC immunity to interference | EN 61000-6-2      |
| EMC emission of interference | EN 61000-6-4      |
| Standards/specifications     | EN 61010-1<br>DNV |

## Commercial data

|               |                          |
|---------------|--------------------------|
| Product Group | 6 (INTERFACE ELECTRONIC) |
| eCl@ss 10.0   | 27-21-01-20              |
| eCl@ss 9.0    | 27-21-01-20              |
| ETIM 8.0      | EC002653                 |
| ETIM 7.0      | EC002653                 |

Subject to changes. Please also observe the further product documentation!



|                       |               |
|-----------------------|---------------|
| Recupel Type          |               |
| ECCN                  | NO DATA       |
| PU (SPU)              | 1 pcs         |
| Packaging type        | bag           |
| Country of origin     | DE            |
| GTIN                  | 4045454609849 |
| Customs tariff number | 85437090300   |

## Environmental Product Compliance

|                                           |                                                                                                 |
|-------------------------------------------|-------------------------------------------------------------------------------------------------|
| CAS-No.                                   | 1303-86-2<br>1317-36-8<br>7439-92-1<br>75980-60-8                                               |
| REACH Candidate List Substance            | Diboron trioxide<br>Lead<br>Lead monoxide<br>Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- |
| 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)        | 3e587da1-5b87-48f8-a2c3-0cb5a2cb4cb6                                                            |
| SCIP notification number (Belgium)        | b3e64ad6-19d9-4eb5-bdaa-a01224f8e737                                                            |
| SCIP notification number (Bulgaria)       | 4e382a7a-bbe8-49a5-b133-3955df13cc2e                                                            |
| SCIP notification number (Czech Republic) | 67a17154-2f8b-4c8c-8bf0-b38e98602845                                                            |
| SCIP notification number (Denmark)        | fd58a326-ff73-4e06-ad5f-e234b297c9dc                                                            |
| SCIP notification number (Finland)        | 4f4bb848-5bb8-4514-9be8-66c2710b3936                                                            |
| SCIP notification number (France)         | 5ba6c2a4-ec48-4c81-93d6-2c18cc72bcd4                                                            |
| SCIP notification number (Germany)        | 8600a108-f13f-48aa-aa38-95a429f60acb                                                            |
| SCIP notification number (Hungary)        | 7598f242-32a4-4e3a-ba60-59266593f79f                                                            |
| SCIP notification number (Italy)          | 730b3c56-99b4-4b33-b1fe-f246cddfaf97                                                            |
| SCIP notification number (Netherlands)    | 1809dac3-3686-46b8-b504-2412be7136f2                                                            |
| SCIP notification number (Poland)         | db9b21a1-9de2-488a-9406-0e75af90197d                                                            |
| SCIP notification number (Romania)        | 068016bc-1c28-46ea-8265-fdadc8decbb11                                                           |
| SCIP notification number (Sweden)         | 30022a58-4ee0-447c-b2cd-ffcc18e6f23b                                                            |

## Approvals / Certificates

### General approvals

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| Logo                                                                             | Approval                                                  | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------|------------------|
|  | EAC<br>GZO Almaty Standart                                | TP TC 020/2011           | EAC CoC<br>03081 |
|  | UL<br>Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 508                   | E175199<br>Sec.4 |

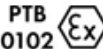
## Declarations of conformity and manufacturer's declarations

| Logo                                                                             | Approval                                           | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|----------------------------------------------------|--------------------------|------------------|
|  | EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | -                        | -                |

## Approvals for marine applications

| Logo                                                                                | Approval                  | Additional Approval Text        | Certificate name |
|-------------------------------------------------------------------------------------|---------------------------|---------------------------------|------------------|
|  | BV<br>Bureau Veritas S.A. | Rules for class. of Steel Ships | 40179_B0         |
|   | DNV<br>DNV Germany GmbH   | DNV-CG-0339,Aug.2021            | TAA00001D1       |

## Approvals for hazardous areas

| Logo                                                                               | Approval                     | Additional Approval Text | Certificate name                             |
|------------------------------------------------------------------------------------|------------------------------|--------------------------|----------------------------------------------|
|  | ATEX<br>TUEV Nord Cert GmbH  | EN 60079-0               | TUEV14ATEX112692X<br>(II 3G Ex ec IIC T4 Gc) |
|  | CCC<br>CNEX                  | CNCA-C23-01              | 2020312310000210<br>(Ex ec IIC T4 Gc)        |
|                                                                                    | IECEX<br>TUEV Nord Cert GmbH | -                        | IECEX TUN14.0030X                            |

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UKEx  
WAGO GmbH & Co. KG

EN 60079-0

WAGO22UKEX004X



UL  
Underwriters Laboratories Inc. (HAZARDOUS  
LOCATIONS)

ANSI/ISA 12.12.01

E198726

## Optional accessories

### Power supplies

Power supply unit



Item no.: 787-2852

Switched-mode power supply; 1-phase; 24 VDC output voltage; 1 A output current

[www.wago.com/787-2852](http://www.wago.com/787-2852)

### Marking accessories

Marking strip



Item no.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

[www.wago.com/2009-110](http://www.wago.com/2009-110)

Marker



Item no.: 2009-115

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

[www.wago.com/2009-115](http://www.wago.com/2009-115)

Item no.: 793-501

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

[www.wago.com/793-501](http://www.wago.com/793-501)

Item no.: 793-502

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/793-502](http://www.wago.com/793-502)

Item no.: 793-503

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/793-503](http://www.wago.com/793-503)

Item no.: 793-504

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/793-504](http://www.wago.com/793-504)

Item no.: 793-505

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/793-505](http://www.wago.com/793-505)

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**Item no.: 793-506**WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; [www.wago.com/793-506](http://www.wago.com/793-506)  
white**Item no.: 793-566**WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; [www.wago.com/793-566](http://www.wago.com/793-566)  
white**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 [www.wago.com/793-5501](http://www.wago.com/793-5501)**Mounting**

## Mounting accessories

**Item no.: 249-116**

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

[www.wago.com/249-116](http://www.wago.com/249-116)**Item no.: 249-117**

Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

[www.wago.com/249-117](http://www.wago.com/249-117)**Item no.: 249-197**

Screwless end stop; 14 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

[www.wago.com/249-197](http://www.wago.com/249-197)**Interface module**

## Interface adapters

**Item no.: 857-980**

Interface adapter; 16-pole; analog

[www.wago.com/857-980](http://www.wago.com/857-980)**Tool**

## Operating tool

**Item no.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

[www.wago.com/210-720](http://www.wago.com/210-720)**Terminal blocks**

## Supply module

**Item no.: 857-979**

Supply and through module

[www.wago.com/857-979](http://www.wago.com/857-979)**Jumpers**

## Jumper

**Item no.: 859-408**

Jumper; for jumper slot; 8-way; insulated; light gray

[www.wago.com/859-408](http://www.wago.com/859-408)**Item no.: 281-482**

Jumper; 2-way; insulated; gray

[www.wago.com/281-482](http://www.wago.com/281-482)

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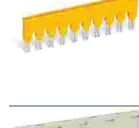
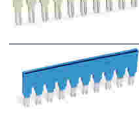
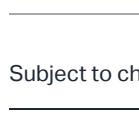
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|                                                                                    |                                                                                        |                                                                                |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|                                                                                    | <b>Item no.: 859-404/000-005</b><br>Jumper; for jumper slot; 4-way; insulated; red     | <a href="http://www.wago.com/859-404/000-005">www.wago.com/859-404/000-005</a> |
|    | <b>Item no.: 859-404/000-006</b><br>Jumper; for jumper slot; 4-way; insulated; blue    | <a href="http://www.wago.com/859-404/000-006">www.wago.com/859-404/000-006</a> |
|    | <b>Item no.: 859-405/000-005</b><br>Jumper; for jumper slot; 5-way; insulated; red     | <a href="http://www.wago.com/859-405/000-005">www.wago.com/859-405/000-005</a> |
|    | <b>Item no.: 859-405/000-029</b><br>Jumper; for jumper slot; 5-way; insulated; yellow  | <a href="http://www.wago.com/859-405/000-029">www.wago.com/859-405/000-029</a> |
|    | <b>Item no.: 859-405</b><br>Jumper; for jumper slot; 5-way; insulated; light gray      | <a href="http://www.wago.com/859-405">www.wago.com/859-405</a>                 |
|    | <b>Item no.: 859-404/000-029</b><br>Jumper; for jumper slot; 4-way; insulated; yellow  | <a href="http://www.wago.com/859-404/000-029">www.wago.com/859-404/000-029</a> |
|   | <b>Item no.: 859-405/000-006</b><br>Jumper; for jumper slot; 5-way; insulated; blue    | <a href="http://www.wago.com/859-405/000-006">www.wago.com/859-405/000-006</a> |
|  | <b>Item no.: 859-406/000-005</b><br>Jumper; for jumper slot; 6-way; insulated; red     | <a href="http://www.wago.com/859-406/000-005">www.wago.com/859-406/000-005</a> |
|  | <b>Item no.: 859-409/000-029</b><br>Jumper; for jumper slot; 9-way; insulated; yellow  | <a href="http://www.wago.com/859-409/000-029">www.wago.com/859-409/000-029</a> |
|  | <b>Item no.: 859-410/000-005</b><br>Jumper; for jumper slot; 10-way; insulated; red    | <a href="http://www.wago.com/859-410/000-005">www.wago.com/859-410/000-005</a> |
|  | <b>Item no.: 859-410/000-029</b><br>Jumper; for jumper slot; 10-way; insulated; yellow | <a href="http://www.wago.com/859-410/000-029">www.wago.com/859-410/000-029</a> |
|  | <b>Item no.: 859-410</b><br>Jumper; for jumper slot; 10-way; insulated; light gray     | <a href="http://www.wago.com/859-410">www.wago.com/859-410</a>                 |
|  | <b>Item no.: 859-410/000-006</b><br>Jumper; for jumper slot; 10-way; insulated; blue   | <a href="http://www.wago.com/859-410/000-006">www.wago.com/859-410/000-006</a> |

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|                                                                                   |                                                                                       |                                                                                |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|    | <b>Item no.: 859-403/000-005</b><br>Jumper; for jumper slot; 3-way; insulated; red    | <a href="http://www.wago.com/859-403/000-005">www.wago.com/859-403/000-005</a> |
|    | <b>Item no.: 859-402/000-029</b><br>Jumper; for jumper slot; 2-way; insulated; yellow | <a href="http://www.wago.com/859-402/000-029">www.wago.com/859-402/000-029</a> |
|    | <b>Item no.: 859-403/000-029</b><br>Jumper; for jumper slot; 3-way; insulated; yellow | <a href="http://www.wago.com/859-403/000-029">www.wago.com/859-403/000-029</a> |
|    | <b>Item no.: 859-403/000-006</b><br>Jumper; for jumper slot; 3-way; insulated; blue   | <a href="http://www.wago.com/859-403/000-006">www.wago.com/859-403/000-006</a> |
|    | <b>Item no.: 859-408/000-005</b><br>Jumper; for jumper slot; 8-way; insulated; red    | <a href="http://www.wago.com/859-408/000-005">www.wago.com/859-408/000-005</a> |
|    | <b>Item no.: 859-408/000-029</b><br>Jumper; for jumper slot; 8-way; insulated; yellow | <a href="http://www.wago.com/859-408/000-029">www.wago.com/859-408/000-029</a> |
|    | <b>Item no.: 859-409</b><br>Jumper; for jumper slot; 9-way; insulated; light gray     | <a href="http://www.wago.com/859-409">www.wago.com/859-409</a>                 |
|   | <b>Item no.: 859-408/000-006</b><br>Jumper; for jumper slot; 8-way; insulated; blue   | <a href="http://www.wago.com/859-408/000-006">www.wago.com/859-408/000-006</a> |
|  | <b>Item no.: 859-403</b><br>Jumper; for jumper slot; 3-way; insulated; light gray     | <a href="http://www.wago.com/859-403">www.wago.com/859-403</a>                 |
|  | <b>Item no.: 859-409/000-005</b><br>Jumper; for jumper slot; 9-way; insulated; red    | <a href="http://www.wago.com/859-409/000-005">www.wago.com/859-409/000-005</a> |
|  | <b>Item no.: 859-404</b><br>Jumper; for jumper slot; 4-way; insulated; light gray     | <a href="http://www.wago.com/859-404">www.wago.com/859-404</a>                 |
|  | <b>Item no.: 859-409/000-006</b><br>Jumper; for jumper slot; 9-way; insulated; blue   | <a href="http://www.wago.com/859-409/000-006">www.wago.com/859-409/000-006</a> |
|  | <b>Item no.: 859-402/000-006</b><br>Jumper; for jumper slot; 2-way; insulated; blue   | <a href="http://www.wago.com/859-402/000-006">www.wago.com/859-402/000-006</a> |
|  | <b>Item no.: 859-402</b><br>Jumper; for jumper slot; 2-way; insulated; light gray     | <a href="http://www.wago.com/859-402">www.wago.com/859-402</a>                 |
|  | <b>Item no.: 859-402/000-005</b><br>Jumper; for jumper slot; 2-way; insulated; red    | <a href="http://www.wago.com/859-402/000-005">www.wago.com/859-402/000-005</a> |

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|                                                                                  |                                                                                              |                                                                                |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|  | <b>Item no.: 859-406/000-006</b><br>Jumper; for jumper slot; 6-way; insulated; blue          | <a href="http://www.wago.com/859-406/000-006">www.wago.com/859-406/000-006</a> |
|  | <b>Item no.: 859-406/000-029</b><br>Jumper; for jumper slot; 6-way; insulated; signal yellow | <a href="http://www.wago.com/859-406/000-029">www.wago.com/859-406/000-029</a> |
|  | <b>Item no.: 859-407/000-006</b><br>Jumper; for jumper slot; 7-way; insulated; blue          | <a href="http://www.wago.com/859-407/000-006">www.wago.com/859-407/000-006</a> |
|  | <b>Item no.: 859-407/000-005</b><br>Jumper; for jumper slot; 7-way; insulated; red           | <a href="http://www.wago.com/859-407/000-005">www.wago.com/859-407/000-005</a> |
|  | <b>Item no.: 859-407/000-029</b><br>Jumper; for jumper slot; 7-way; insulated; yellow        | <a href="http://www.wago.com/859-407/000-029">www.wago.com/859-407/000-029</a> |
|  | <b>Item no.: 859-407</b><br>Jumper; for jumper slot; 7-way; insulated; light gray            | <a href="http://www.wago.com/859-407">www.wago.com/859-407</a>                 |

## Downloads

### Documentation

#### Bid Text

|                         |                 |                 |          |
|-------------------------|-----------------|-----------------|----------|
| 857-416<br>docx - Datei | 18 июл. 2019 г. | docx<br>18.6 kB | Download |
| 857-416<br>X81 - Datei  | 18 июл. 2019 г. | xml<br>5.4 kB   | Download |
| 857-416<br>pdf - Datei  | 18 июл. 2019 г. | pdf<br>74.1 kB  | Download |

#### Instruction Leaflet

|                                                                 |                            |                 |          |
|-----------------------------------------------------------------|----------------------------|-----------------|----------|
| CCC Ex (Additional information)<br>857-***                      | 26 апр. 2023 г.            | pdf<br>144.4 kB | Download |
| Messumformer und Trennverstärker<br>0(4)...20 mA / 0(4)...20 mA | V 1.2.1<br>21 янв. 2020 г. | pdf<br>2.2 MB   | Download |

#### Additional Information

Subject to changes. Please also observe the further product documentation!

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## CAD/CAE-Data

### CAD data

|                      |                     |                          |
|----------------------|---------------------|--------------------------|
| 2D/3D Models 857-416 | <a href="#">URL</a> | <a href="#">Download</a> |
|----------------------|---------------------|--------------------------|

### CAE data

|                           |                     |                          |
|---------------------------|---------------------|--------------------------|
| EPLAN Data Portal 857-416 | <a href="#">URL</a> | <a href="#">Download</a> |
|---------------------------|---------------------|--------------------------|

|                        |                     |                          |
|------------------------|---------------------|--------------------------|
| WSCAD Universe 857-416 | <a href="#">URL</a> | <a href="#">Download</a> |
|------------------------|---------------------|--------------------------|

|                      |                     |                          |
|----------------------|---------------------|--------------------------|
| ZUKEN Portal 857-416 | <a href="#">URL</a> | <a href="#">Download</a> |
|----------------------|---------------------|--------------------------|

### Asset Administration Shell

|                                    |                     |                          |
|------------------------------------|---------------------|--------------------------|
| Asset Administration Shell 857-416 | <a href="#">URL</a> | <a href="#">Download</a> |
|------------------------------------|---------------------|--------------------------|

## Environmental Product Compliance

### Compliance Search

|                                          |                     |                          |
|------------------------------------------|---------------------|--------------------------|
| Environmental Product Compliance 857-416 | <a href="#">URL</a> | <a href="#">Download</a> |
|------------------------------------------|---------------------|--------------------------|

Isolation amplifier; Current input signal; Voltage output signal; Supply voltage: 24 VDC; 6 mm module width; 2,50 mm<sup>2</sup>

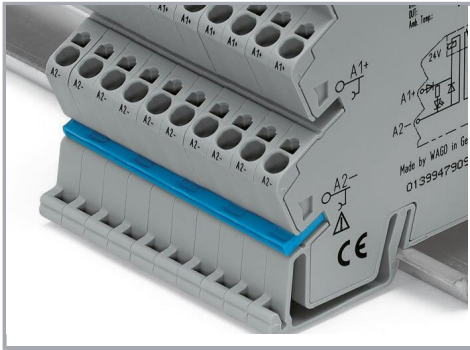
## Installation Notes

### Commoning

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Commoning, not discrete wiring – Same outline allows use of a single in-line, push-in jumper.

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