

PLC-OPT-230UC/V8C/SEN - Solid-state relay module



2908176

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PLC-INTERFACE for input functions with PLC logic, with Push-in connection and plug-in miniature solid-state relay, for mounting on a DIN rail, 1 N/O contact, input: 230 V AC/220 V DC

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2908176 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Note | Made to order (non-returnable) |
| Sales key | C461 |
| Product key | DK62A3 |
| GTIN | 4055626287386 |
| Weight per piece (including packing) | 31.17 g |
| Weight per piece (excluding packing) | 31.17 g |
| Customs tariff number | 85364900 |
| Country of origin | DE |

Technical data

Product properties

| | |
|----------------|--------------------------|
| Product type | Solid-state relay module |
| Product family | PLC-INTERFACE |
| Application | Input function |
| Operating mode | 100% operating factor |

Insulation characteristics: Standards/regulations

| | |
|----------------------|------------------|
| Insulation | Basic insulation |
| Overvoltage category | III |
| Pollution degree | 2 |

Data management status

| | |
|------------------------------|------------|
| Date of last data management | 01.04.2026 |
|------------------------------|------------|

Electrical properties

| | |
|---|--------------------------------------|
| Maximum power dissipation for nominal condition | 0.81 W |
| Test voltage (Input/output) | 2.5 kV (50 Hz, 1 min., input/output) |

Input data

| | |
|--|-----------------------|
| Nominal input voltage U_N | 230 V AC |
| | 220 V DC |
| Nominal voltage (plugged-in solid-state relay) | 60 V DC |
| Input voltage range in reference to U_N | 0.8 ... 1.1 |
| Input voltage range | 184 V AC ... 253 V AC |
| | 176 V DC ... 242 V DC |
| Switching threshold "0" signal in reference to U_N | ≤ 0.3 |
| Switching threshold "1" signal in reference to U_N | ≥ 0.8 |
| Typical input current at U_N | 3.5 mA |
| Typical response time | 3 ms (at U_N) |
| Typical turn-off time | 5 ms (at U_N) |
| Operating voltage display | Yellow LED |
| Protective circuit | Bridge rectifier |
| Transmission frequency | 10 Hz |

Output data

| | |
|--|-----------------------|
| Contact switching type | 1 N/O contact |
| Design of digital output | electronic |
| Output voltage range | 5 V DC ... 30 V DC |
| Limiting continuous current | 3 mA |
| Surge voltage protection | > 56 V |
| Voltage drop at max. limiting continuous current | ≤ 1 V |
| Output circuit | 2-conductor, floating |

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| | |
|--------------------|--|
| Protective circuit | Reverse polarity protection; Polarity protection diode |
| | Surge protection |

Connection data

| | |
|----------------------------------|--|
| Connection method | Push-in connection |
| Stripping length | 8 mm |
| Conductor cross-section rigid | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 26 ... 14 |

Dimensions

Item dimensions

| | |
|--------|--------|
| Width | 6.2 mm |
| Height | 80 mm |
| Depth | 94 mm |

Material specifications

| | |
|--|-----------------|
| Color | gray (RAL 7042) |
| Flammability rating according to UL 94 (Housing) | V0 (Housing) |

Environmental and real-life conditions

Ambient conditions

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|---|------------------|
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |

Approvals

Corrosive gas test

| | |
|----------------|----------------------------|
| Identification | ISA-S71.04. G3 Harsh Group |
| | EN 60068-2-60 |

Standards and regulations

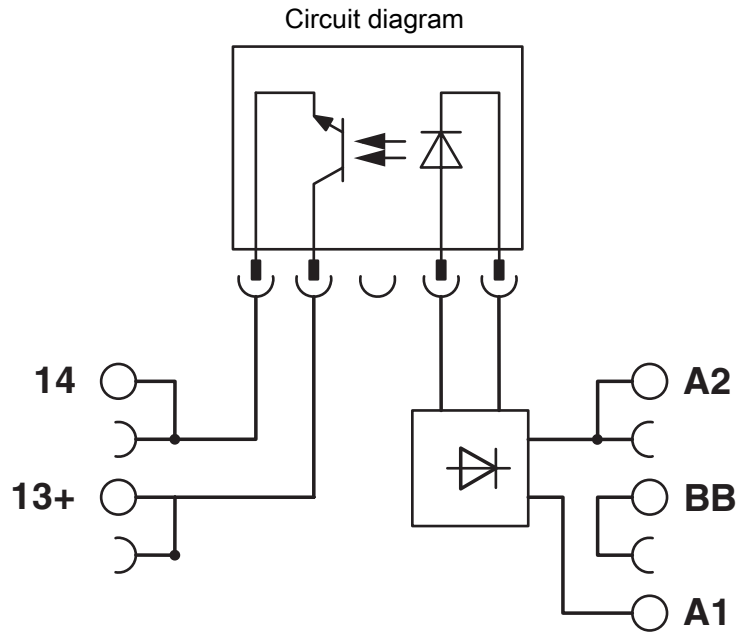
Standards/regulations

| | |
|-----------------------|---------------|
| Standards/regulations | IEC 60947-5-1 |
|-----------------------|---------------|

Mounting

| | |
|-------------------|---------------------------|
| Mounting type | DIN rail mounting |
| Assembly note | in rows with zero spacing |
| Mounting position | any |

Drawings



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2908176>



EAC

Approval ID: RU*C-DE.*08.B.00010



cULus Listed

Approval ID: E140324



cULus Listed

Approval ID: E140324



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27371604 |
| ECLASS-15.0 | 27371604 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001504 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39122300 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 7(c)-I |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 08c95e2a-061b-4bfb-8bb7-839bb3c36a76 |

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