

## Optocoupler - PLC-OSC- 24DC/ 24DC/ 2/C1D2 - 5603260

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PLC-INTERFACE, consisting of DIN rail-mountable basic terminal block with screw connection and plug-in miniature solid-state relay, input: 24 V DC, output: 3 - 33 V DC/3 A, UL/cUL: approved for use in Ex Zone Class I, Div. 2



### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Weight per Piece (excluding packing) | 38.0 g   |
| Custom tariff number                 | 85364190 |
| Country of origin                    | Germany  |

### Technical data

#### Note

|                         |   |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

#### Dimensions

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

#### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

#### Input data

|   |                   |
|---|-------------------|
| Nominal input voltage $U_N$               | 24 V DC           |
| Input voltage range in reference to $U_N$ | 0.8 ... 1.2       |
| Input voltage range                       | 19.2 V ... 28.8 V |

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### Input data

|  |                             |
|--|-----------------------------|
| Switching threshold "0" signal in reference to $U_N$ | $\leq 0.4$                  |
| Switching threshold "1" signal in reference to $U_N$ | $\geq 0.8$                  |
| Typical input current at $U_N$                       | 8.5 mA                      |
| Typical response time                                | 20 $\mu$ s (at $U_N$ )      |
| Typical turn-off time                                | 300 $\mu$ s (at $U_N$ )     |
| Operating voltage display                            | Yellow LED                  |
| Type of protection                                   | Reverse polarity protection |
|  | Free-wheeling diode         |
| Protective circuit/component                         | Polarity protection diode   |
|  | Damping diode               |
| Transmission frequency                               | 300 Hz                      |
| Power dissipation for nominal condition              | 0.2 W                       |

### Output data

|  |                             |
|--|-----------------------------|
| Output voltage range                             | 3 V DC ... 33 V DC          |
| Limiting continuous current                      | 3 A                         |
| Maximum inrush current                           | 15 A (10 ms)                |
| Voltage drop at max. limiting continuous current | $\leq 200$ mV               |
| Output circuit                                   | 2-wire, floating            |
| Type of protection                               | Reverse polarity protection |
|  | Surge protection            |
| Protective circuit/component                     | Polarity protection diode   |

### Connection data, input side

|                                  |  |
|----------------------------------|--|
| Connection name                  | Input side                                   |
| Connection method                | Screw connection                             |
| Stripping length                 | 8 mm   |
| Screw thread                     | M 3  |
| Conductor cross section solid    | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 26 ... 14                                    |

### Connection data, output side

|                                  |  |
|----------------------------------|--|
| Connection name                  | Output side                                  |
| Connection method                | Screw connection                             |
| Stripping length                 | 8 mm   |
| Screw thread                     | M 3  |
| Conductor cross section solid    | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |

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## Technical data

### Connection data, output side

|                             |           |
|-----------------------------|-----------|
| Conductor cross section AWG | 26 ... 14 |
|-----------------------------|-----------|

### General

|  |                                       |
|--|---------------------------------------|
| Test voltage input/output              | 2.5 kV (50 Hz, 1 min.)                |
| Mounting position                      | any                                   |
| Assembly instructions                  | In rows with zero spacing             |
| Operating mode                         | 100% operating factor                 |
| Flammability rating according to UL 94 | V0                                    |
| Designation                            | Standards/regulations                 |
| Standards/regulations                  | IEC 60664                             |
|  | EN 50178                              |
|  | IEC 62103                             |
| Rated surge voltage/insulation         | Basic insulation                      |
| Degree of pollution                    | 2                                     |
| Overvoltage category                   | III                                   |
| UL, USA                                | Class I, Zone 2, AEx nA nC IIC T6     |
| UL, USA / Canada                       | Class I, Div. 2, Groups A, B, C, D    |
| UL, Canada                             | Class I, Zone 2, Ex nA nC IIC Gc T6 X |

### Standards and Regulations

|  |                                       |
|--|---------------------------------------|
| Designation                            | Standards/regulations                 |
| Standards/regulations                  | IEC 60664                             |
|  | EN 50178                              |
|  | IEC 62103                             |
| Rated surge voltage/insulation         | Basic insulation                      |
| Degree of pollution                    | 2                                     |
| Overvoltage category                   | III                                   |
| Flammability rating according to UL 94 | V0                                    |
| Conformance                            | CE-compliant                          |
| UL, USA                                | Class I, Zone 2, AEx nA nC IIC T6     |
| UL, USA / Canada                       | Class I, Div. 2, Groups A, B, C, D    |
| UL, Canada                             | Class I, Zone 2, Ex nA nC IIC Gc T6 X |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27371102 |
| eCl@ss 4.1 | 27371102 |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.0 | 27371001 |
| eCl@ss 5.1 | 27371001 |
| eCl@ss 6.0 | 27371001 |
| eCl@ss 7.0 | 27371001 |
| eCl@ss 8.0 | 27371604 |

### ETIM

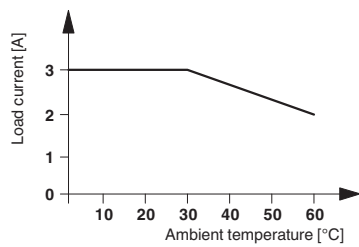
|          |          |
|----------|----------|
| ETIM 3.0 | EC001504 |
| ETIM 4.0 | EC001504 |
| ETIM 5.0 | EC001504 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211916 |
| UNSPSC 7.0901 | 39121542 |
| UNSPSC 11     | 39121542 |
| UNSPSC 12.01  | 39121542 |
| UNSPSC 13.2   | 39121542 |

## Drawings

Diagram



Circuit diagram

