# Optocoupler module - UMK- 1 OM-R/AMS - 2983002

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The UMK-1 OM-R/AMS is the wiring interface and coupling level in one unit: Diagnostic and status indicator, polarity and surge protection at the input, assembly option with solid-state relay up to 350 V DC/1 A or 480 V AC/5 A

## Your advantages

- Status indicator
- Status indicator

Protection against pol. reversal in input

- Can be fitted with solid-state relays for loads up to 350 V DC/1 A or 480 V AC/5 A


## Key Commercial Data

| | |
|---|---|
| Packing unit | 1 pc |
| GTIN | 4 046356 149501 |
| GTIN | 4046356149501 |
| Weight per Piece (excluding packing) | 44.870 g |
| Custom tariff number | 85369010 |
| Country of origin | Germany |

## Technical data

### Dimensions

| | |
|---|---|
| Width | 22.5 mm |
| Height | 77 mm |
| Depth | 72 mm |

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

### Input data

| | |
|---|---|
| Nominal input voltage $U_N$ | 24 V DC |
| Typical input current at $U_N$ | 2 mA (without plug-in module) |

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## Technical data

### Input data

| | |
|---|---|
| Type of protection | Reverse polarity protection |
| Protective circuit/component | Polarity protection diode |
| Type of protection | Surge protection |
| Protective circuit/component | Suppressor diode |
| Status display/channel | Yellow LED |

### Output data

| | |
|---|---|
| Contact type | 1 N/O contact (double contact) |
| Maximum switching voltage | 230 V AC |
| | 550 V AC |
| Minimum switching voltage | 24 V AC |
| Limiting continuous current | 5 A |
| Error detection (line break / short-circuit) | no |

### General

| | |
|---|---|
| With components | yes |
| Operating mode | 100% operating factor |
| Mounting position | any |
| Assembly instructions | In rows with zero spacing |
| Housing insulation material | PVC, side panel PA non-reinforced, |
| Color | green |

### Connection data for connection 1

| | |
|---|---|
| Connection name | Input |
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross section solid | 0.2 mm² ... 4 mm² |
| Conductor cross section flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross section AWG | 24 ... 12 |
| Number of connections | 1 |
| Number of positions | 2 |

### Standards and Regulations

| | |
|---|---|
| Standards/regulations | DIN EN 50178 |
| Rated surge voltage | 8 kV |
| Pollution degree | 2 |
| Overvoltage category | III |

### Environmental Product Compliance

| | |
|---|---|
| REACh SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 |

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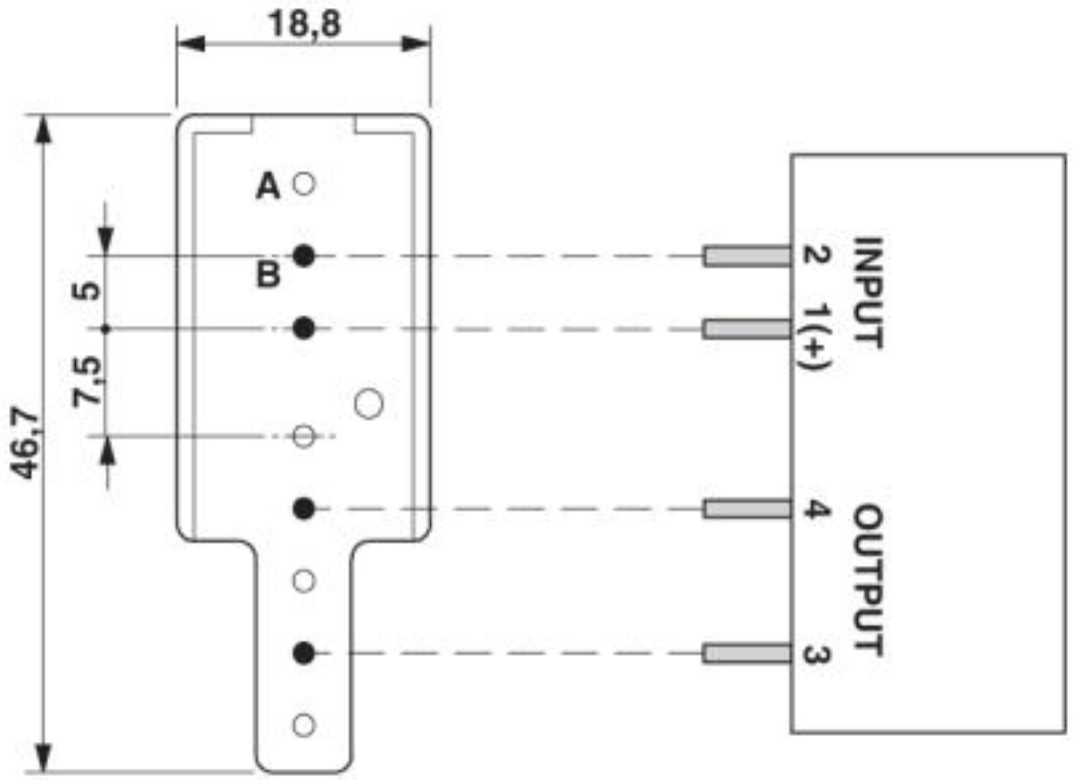
## Technical data

### Environmental Product Compliance

| | |
|---|---|
| | For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration” |

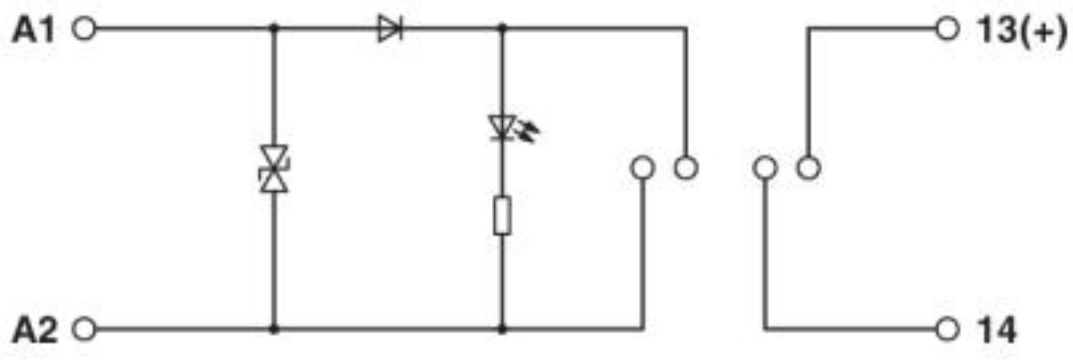
## Drawings

Dimensional drawing




A = without metal
B = with metal

Circuit diagram



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## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 4.0 | 27371100 |
| eCl@ss 4.1 | 27371100 |
| eCl@ss 5.0 | 27371600 |
| eCl@ss 5.1 | 27371000 |
| eCl@ss 6.0 | 27371600 |
| eCl@ss 7.0 | 27371603 |
| eCl@ss 8.0 | 27371603 |
| eCl@ss 9.0 | 27371603 |

### ETIM

| | |
|---|---|
| ETIM 2.0 | EC001456 |
| ETIM 3.0 | EC001456 |
| ETIM 4.0 | EC001456 |
| ETIM 5.0 | EC001456 |
| ETIM 6.0 | EC001456 |
| ETIM 7.0 | EC001456 |

### UNSPSC

| | |
|---|---|
| UNSPSC 6.01 | 30211916 |
| UNSPSC 7.0901 | 39121542 |
| UNSPSC 11 | 39121542 |
| UNSPSC 12.01 | 39121542 |
| UNSPSC 13.2 | 39122326 |
| UNSPSC 18.0 | 39122335 |
| UNSPSC 19.0 | 39122335 |
| UNSPSC 20.0 | 39122335 |
| UNSPSC 21.0 | 39122335 |

## Approvals

### Approvals

Approvals

EAC

Ex Approvals

### Approval details

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## Approvals

| | | |
|---|---|---|
| EAC | EAC | RU C-DE.A*30.B.01742 |

## Accessories

### Necessary add-on products

Semi-conductor relay - OV-24DC/350DC/1 - 2982634

Solid-state relay, for signal amplification and isolation of the control and load circuits, can be plugged in the solderable plug-in bases SIM-AMS or with PCB connection for mounting directly onto the PCB, input: 4.25-32 V DC, output: 1-350 V DC/1 A

Semi-conductor relay - OV-24DC/ 60DC/4 - 2982647

Solid-state relay, for signal amplification and isolation of the control and load circuits, can be plugged in the solderable plug-in bases SIM-AMS or with PCB connection for mounting directly onto the PCB, input: 4.25-32 V DC, output: 1-60 V DC/4 A

Semi-conductor relay - OV-24DC/480AC/5 - 2982650

Solid-state relay, for signal amplification and isolation of the control and load circuits, can be plugged in the solderable plug-in bases SIM-AMS or with PCB connection for mounting directly onto the PCB, input: 4-32 V DC, output: 12-530 V AC/ 5 A