

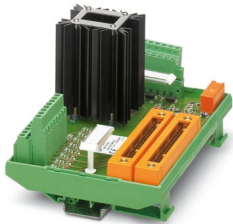
# UM-2KS50/ 8DO/RS/MKDS - Output module



2900174

<https://www.phoenixcontact.com/us/products/2900174>

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8-channel digital output module with screw connection and redundant voltage supply. Suitable for Yokogawa SDV 531 and SDV 531L cards.

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2900174                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | CK21A4                         |
| Catalog page                         | Page 523 (C-5-2017)            |
| GTIN                                 | 4046356484046                  |
| Weight per piece (including packing) | 612 g                          |
| Weight per piece (excluding packing) | 612 g                          |
| Customs tariff number                | 85369010                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                     |                  |
|---------------------|------------------|
| Product type        | Interface module |
| Number of positions | 50               |
| No. of channels     | 8                |

### Insulation characteristics

|            |                       |
|------------|-----------------------|
| Insulation | Functional insulation |
|------------|-----------------------|

### Insulation characteristics: Air clearances and creepage distances

|                      |                       |
|----------------------|-----------------------|
| Insulation           | Functional insulation |
| Overvoltage category | II                    |
| Pollution degree     | 2                     |

### Electrical properties

|   |   |
|---|---|
| Nominal voltage $U_N$                     | 24 V DC $\pm 5\%$   |
| Max. current carrying capacity per branch | 100 mA  |
| Max. total current of voltage supply      | 6.3 AT (F17, F18) pluggable fuse (5x20, 6.3 A), DIN 41662 |

### Air clearances and creepage distances

|                          |                         |
|--------------------------|-------------------------|
| Rated insulation voltage | 50 V                    |
| Rated surge voltage      | 0.5 kV (1.2/50 $\mu$ s) |

### Supported controller YOKOGAWA ProSafe-RS

|                   |                   |
|-------------------|-------------------|
| Suitable I/O card | SDV531<br>SDV531L |
|-------------------|-------------------|

### Connection data

#### Field level

|                                  |   |
|----------------------------------|---|
| Connection method                | Screw connection                            |
| Conductor cross section rigid    | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Conductor cross section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 24 ... 12                                   |

#### Controller level

|                       |                        |
|-----------------------|------------------------|
| Connection method     | Yokogawa KS-compatible |
| Number of connections | 2                      |
| Number of positions   | 50                     |
| Tightening torque     | 0.5 Nm                 |

#### Supply

|                       |           |
|-----------------------|-----------|
| Connection method     | pluggable |
| Number of connections | 1         |
| Number of positions   | 6         |

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## Signaling

|                        |  |
|------------------------|--|
| Status display         | Green LED (supply), yellow LED (channel) |
| Status display present | Yes                                      |

## Dimensions

### Item dimensions

|        |          |
|--------|----------|
| Width  | 161.8 mm |
| Height | 111.8 mm |
| Depth  | 93 mm    |

## Material specifications

|                             |                  |
|-----------------------------|------------------|
| Color                       | green (RAL 6021) |
| Housing insulation material | PVC              |

## Environmental and real-life conditions

### Ambient conditions

|  |                                |
|--|--------------------------------|
| Degree of protection                         | IP00                           |
| Degree of protection (Installation location) | ≥ IP54 (Installation location) |
| Ambient temperature (operation)              | -20 °C ... 70 °C               |
| Altitude                                     | < 2000 m                       |

## Standards and regulations

### Air clearances and creepage distances

|                       |                       |
|-----------------------|-----------------------|
| Standards/regulations | DIN EN 50178: 1998-04 |
|-----------------------|-----------------------|

## Mounting

|                   |                   |
|-------------------|-------------------|
| Mounting type     | DIN rail mounting |
| Mounting position | any               |

## Notes

|         |  |
|---------|--|
| General | Voltage monitoring on the module does not work in combination with upstream HESILED fuse terminal blocks with integrated LED display.  |
| General | For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met. |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141152 |
| ECLASS-12.0 | 27141152 |
| ECLASS-13.0 | 27141152 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002780 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

|            |  |
|------------|--|
| REACH SVHC | Lead 7439-92-1   |
| China RoHS | Environmentally Friendly Use Period = 50 years   |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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