

# UM-2KS50/32IM/SI/BFI/YCS - Passive module



2908402

<https://www.phoenixcontact.com/us/products/2908402>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

32-channel, 24 V DC input module with screw connection and redundant, 50-pos. system connection, fuse in every input circuit, for Yokogawa ADV151 and ADV161



## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2908402                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | CK218N                         |
| Catalog page                         | Page 519 (C-5-2017)            |
| GTIN                                 | 4055626296890                  |
| Weight per piece (including packing) | 396 g                          |
| Weight per piece (excluding packing) | 396 g                          |
| Customs tariff number                | 85369010                       |
| Country of origin                    | DE                             |

# UM-2KS50/32IM/SI/BFI/YCS - Passive module



2908402

<https://www.phoenixcontact.com/us/products/2908402>

## Technical data

### Product properties

|                |                       |
|----------------|-----------------------|
| Product type   | Interface module      |
| Operating mode | 100% operating factor |

### Insulation characteristics

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

### Electrical properties

|                                           |                           |
|-------------------------------------------|---------------------------|
| Nominal voltage $U_N$                     | 24 V DC                   |
|                                           | 19.2 V DC ... 26.4 V DC   |
| Max. current carrying capacity per branch | 250 mA (observe derating) |
| Max. total current of all branches        | 2 A (observe derating)    |
| Rated insulation voltage                  | 50 V DC                   |
| Rated surge voltage                       | 0.5 kV                    |

### Supported controller YOKOGAWA CENTUM VP

|                   |         |
|-------------------|---------|
| Suitable I/O card | ADV151  |
|                   | ADV161  |
|                   | NFDV151 |
|                   | NFDV161 |

### Output data

|                                       |                                |
|---------------------------------------|--------------------------------|
| Contact switching type                | 1 N/O contact                  |
| Type of switch contact                | Double contact                 |
| Contact material                      | AgNi, 5 µm hard gold-plated    |
| Maximum switching voltage             | < 25 V AC                      |
|                                       | 48 V DC                        |
| Limiting continuous current           | 1 A                            |
| Min. switching current                | 1 mA                           |
| Interrupting rating (ohmic load) max. | 24 W (24 V DC)                 |
|                                       | 48 W (48 V DC)                 |
|                                       | 25 VA (25 V AC)                |
| Mechanical service life               | approx. $2 \times 10^7$ cycles |

### Connection data

#### Field level

|                       |                  |
|-----------------------|------------------|
| Connection method     | Screw connection |
| Stripping length      | 5 mm             |
| Screw thread          | M2               |
| Number of connections | 32               |

# UM-2KS50/32IM/SI/BFI/YCS - Passive module



2908402

<https://www.phoenixcontact.com/us/products/2908402>

|                                  |                                                              |
|----------------------------------|--------------------------------------------------------------|
| Number of positions              | 2                                                            |
| Conductor cross section rigid    | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                 |
| Conductor cross section flexible | 0.14 mm <sup>2</sup> ... 1 mm <sup>2</sup> (without ferrule) |
| Conductor cross section AWG      | 26 ... 16                                                    |
| Tightening torque                | 0.22 Nm ... 0.25 Nm                                          |

## Controller level

|                       |                         |
|-----------------------|-------------------------|
| Connection method     | Yokogawa, KS compatible |
| Number of connections | 2                       |
| Number of positions   | 50                      |

## Signaling

|                           |                        |
|---------------------------|------------------------|
| Status display            | LED (red)              |
| Status display present    | Yes, if the fuse fails |
| Operating voltage display | Green LED              |

## Dimensions

### Item dimensions

|        |           |
|--------|-----------|
| Width  | 135 mm    |
| Height | 127.79 mm |
| Depth  | 61.82 mm  |

## Environmental and real-life conditions

### Ambient conditions

|                                         |                                |
|-----------------------------------------|--------------------------------|
| Degree of protection                    | IP00                           |
| Ambient temperature (operation)         | -20 °C ... 50 °C               |
| Ambient temperature (storage/transport) | -20 °C ... 80 °C               |
| Altitude                                | ≤ 2000 m                       |
| Permissible humidity (operation)        | 10 % ... 95 % (non-condensing) |

## Standards and regulations

|                       |                |
|-----------------------|----------------|
| Standards/regulations | EN IEC 60664-1 |
|-----------------------|----------------|

## Mounting

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

## Notes

|                    |                                                                                                   |
|--------------------|---------------------------------------------------------------------------------------------------|
| Notes on operation | Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.               |
| Notes on operation | No additional touch protection is required when using a SELV/PELV voltage (≤ 25 V AC or 60 V DC). |

# UM-2KS50/32IM/SI/BFI/YCS - Passive module



2908402

<https://www.phoenixcontact.com/us/products/2908402>

|                    |                                                                                                                                                                                                                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes on operation | Against adjacent modules in the support rail direction at least one functional insulation on the output-side is complied with. If the application has higher requirements on the insulation (basic insulation or reinforced insulation), then these must be realized through suitable measures (e. g. partition plates). |
| Notes on operation | 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.                                           |

UM-2KS50/32IM/SI/BFI/YCS - Passive module

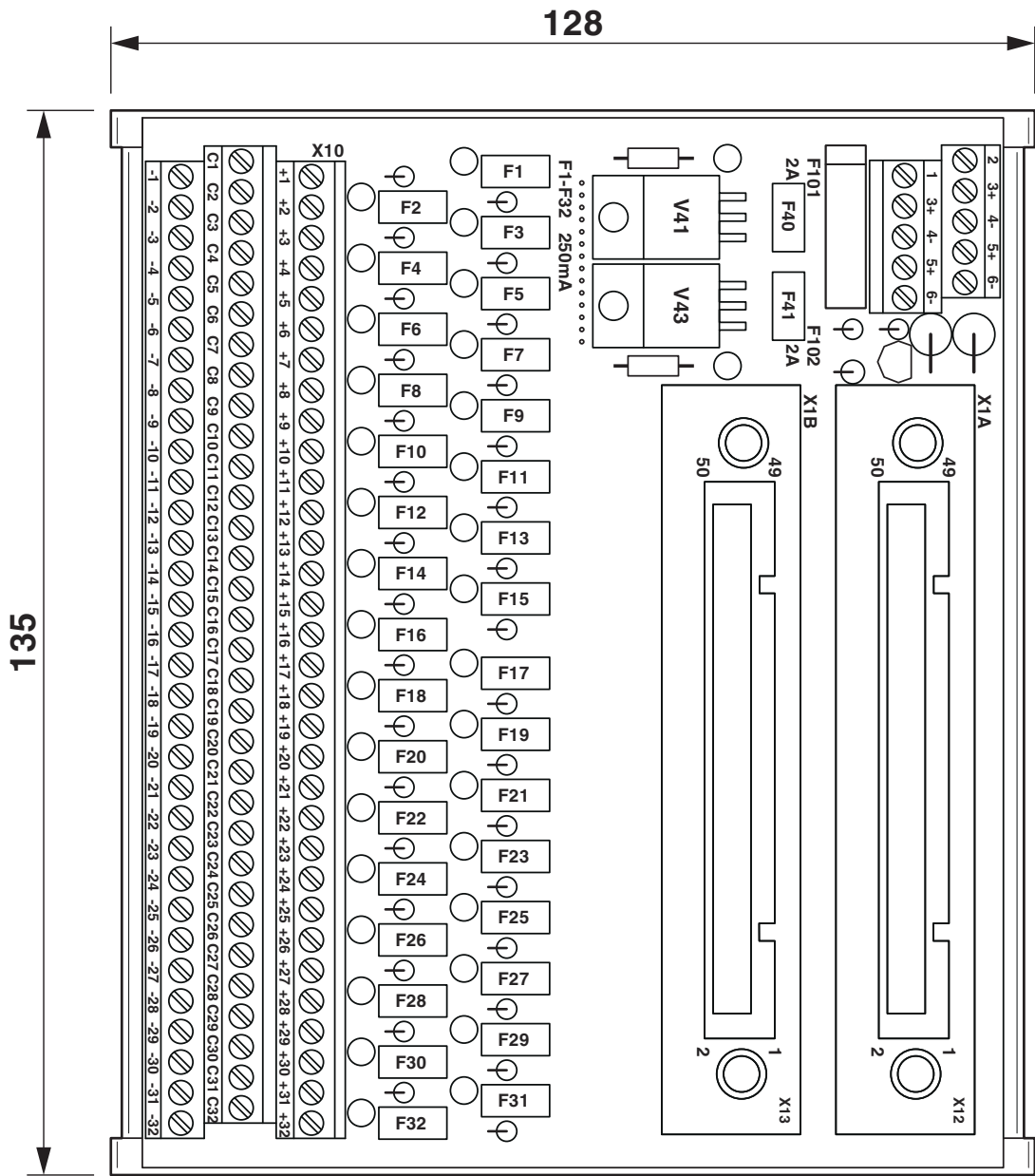


2908402

<https://www.phoenixcontact.com/us/products/2908402>

Drawings

Dimensional drawing



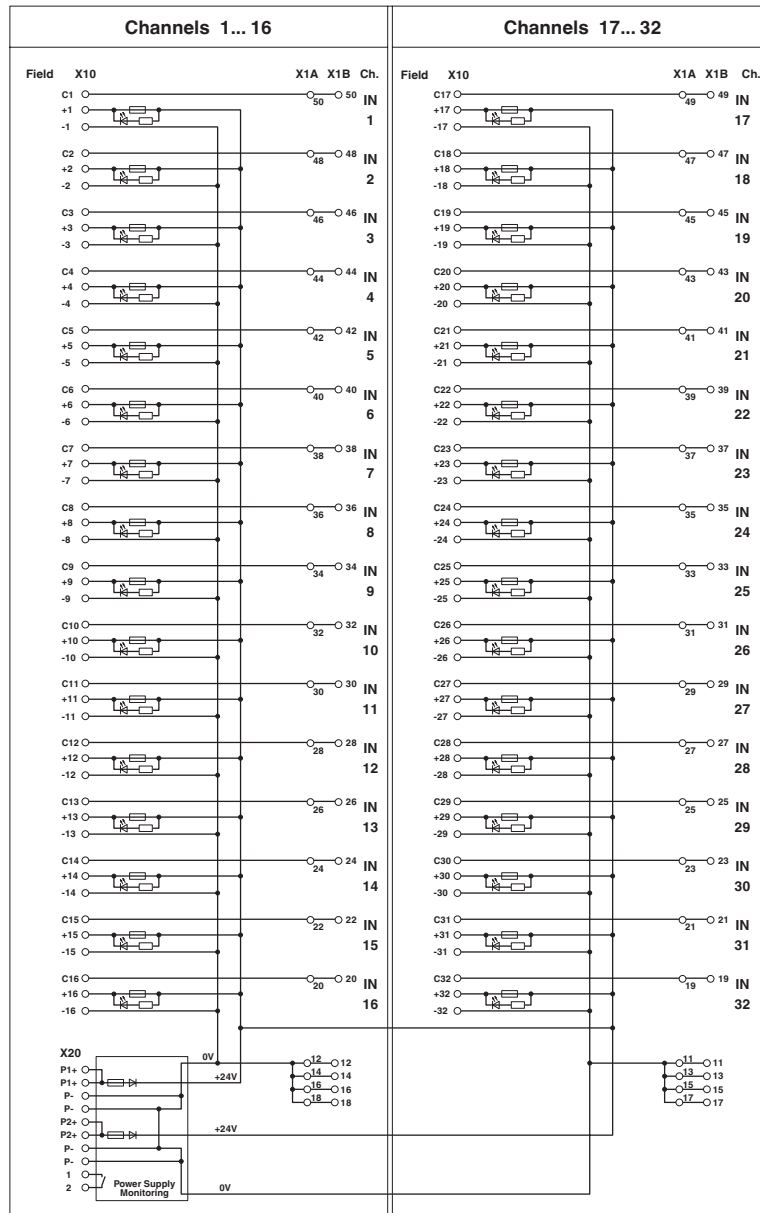
# UM-2KS50/32IM/SI/BFI/YCS - Passive module

2908402

<https://www.phoenixcontact.com/us/products/2908402>



Circuit diagram

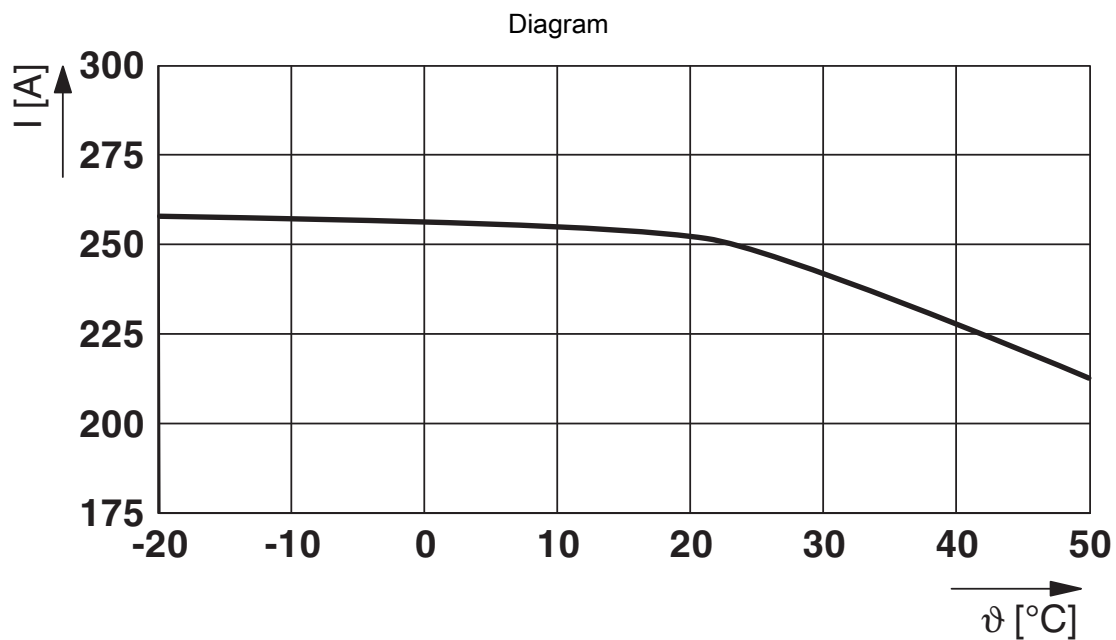


# UM-2KS50/32IM/SI/BFI/YCS - Passive module



2908402

<https://www.phoenixcontact.com/us/products/2908402>



Derating curve: TE5 fuse

# UM-2KS50/32IM/SI/BFI/YCS - Passive module



2908402

<https://www.phoenixcontact.com/us/products/2908402>

## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2908402>



**EAC**

Approval ID: RU\*-DE.\*08.B.01829\*

# UM-2KS50/32IM/SI/BFI/YCS - Passive module



2908402

<https://www.phoenixcontact.com/us/products/2908402>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

# UM-2KS50/32IM/SI/BFI/YCS - Passive module



2908402

<https://www.phoenixcontact.com/us/products/2908402>

## 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.) | Hexahydromethylphthalic anhydride(CAS: n/a) |
|                                     | Lead(CAS: 7439-92-1)                        |
| SCIP                                | 6373d25f-4371-4748-82cf-b031bc6f8636        |

Phoenix Contact 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)