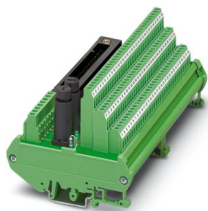


# FLKMS-KS50/32IM/YCS - Passive module



2314451  
<https://www.phoenixcontact.com/us/products/2314451>

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32-channel module with a three-conductor screw connection and redundant power supply.  
Suitable for Yokogawa cards ADV151 and ADV551.

## Your advantages

- For ADV 151 and ADV 551 digital modules
- Three-wire connection (signal, positive, negative)
- Redundant voltage supply (IEC 127-2, 5 x 20, 2 A fuse)

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2314451                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | CK218N                         |
| Catalog page                         | Page 520 (C-5-2017)            |
| GTIN                                 | 4046356126922                  |
| Weight per piece (including packing) | 510 g                          |
| Weight per piece (excluding packing) | 433.68 g                       |
| Customs tariff number                | 85369010                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                 |                  |
|-----------------|------------------|
| Product type    | Interface module |
| No. of channels | 32               |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 08 |
|------------------|----|

### Insulation characteristics: Air clearances and creepage distances

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

### Electrical properties

|                                   |                                 |
|-----------------------------------|---------------------------------|
| Operating voltage range           | 19.2 V DC ... 30 V DC           |
| Fuse                              | 2 A 5x20 (fast-blow) (F01, F02) |
| Current (per branch)              | ≤ 1 A                           |
| Current (Voltage supply P1+, P2+) | ≤ 2 A                           |

### Air clearances and creepage distances

|                          |                    |
|--------------------------|--------------------|
| Rated insulation voltage | 50 V               |
| Rated surge voltage      | 0.5 kV (1.2/50 µs) |

### Supported controller YOKOGAWA CS3000 CentumVP

|                   |        |
|-------------------|--------|
| Suitable I/O card | ADV151 |
|                   | ADV161 |
|                   | ADV551 |
|                   | ADV561 |

### Supported controller YOKOGAWA STARDOM

|                   |         |
|-------------------|---------|
| Suitable I/O card | NFDV151 |
|                   | NFDV161 |
|                   | NFDV551 |
|                   | NFDV561 |

### Connection data

#### Connection 1 (control level)

|                       |                                                              |
|-----------------------|--------------------------------------------------------------|
| Connection method     | Yokogawa KS-compatible                                       |
| Number of connections | 1                                                            |
| Number of positions   | 50                                                           |
| Note                  | Usable system cables: Phoenix Contact YUC50, Yokogawa AKB331 |
| Tightening torque     | 0.5 Nm                                                       |
| Pitch                 | 2.54 mm                                                      |

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## Connection 2 (field level)

|                                                                         |                                                                                |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Connection method                                                       | Screw connection                                                               |
| Stripping length                                                        | 7 mm                                                                           |
| Screw thread                                                            | M3                                                                             |
| Number of positions                                                     | 96                                                                             |
| Conductor cross section rigid                                           | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                      |
| Conductor cross-section rigid (2 conductors with same cross section)    | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                    |
| Conductor cross section flexible                                        | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                    |
|                                                                         | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule without plastic sleeve)  |
|                                                                         | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Ferrule with plastic sleeve)     |
| Conductor cross section flexible (2 conductors with same cross section) | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                    |
|                                                                         | 0.2 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Ferrule without plastic sleeve)  |
|                                                                         | 0.5 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> (TWIN ferrule with plastic sleeve) |
| Conductor cross section AWG                                             | 24 ... 12                                                                      |
| Tightening torque                                                       | 0.5 Nm ... 0.6 Nm                                                              |
| Pitch                                                                   | 5.08 mm                                                                        |

## Connection 3 (supply)

|                                                                         |                                                                                |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Connection method                                                       | Screw connection                                                               |
| Stripping length                                                        | 8 mm                                                                           |
| Screw thread                                                            | M3                                                                             |
| Number of positions                                                     | 8                                                                              |
| Conductor cross section rigid                                           | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                      |
| Conductor cross-section rigid (2 conductors with same cross section)    | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                    |
| Conductor cross section flexible                                        | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                    |
|                                                                         | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Ferrule without plastic sleeve)  |
|                                                                         | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Ferrule with plastic sleeve)     |
| Conductor cross section flexible (2 conductors with same cross section) | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                    |
|                                                                         | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Ferrule without plastic sleeve) |
|                                                                         | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (TWIN ferrule with plastic sleeve) |
| Conductor cross section AWG                                             | 24 ... 12                                                                      |
| Tightening torque                                                       | 0.5 Nm ... 0.6 Nm                                                              |
| Pitch                                                                   | 5.08 mm                                                                        |

## Signaling

|                           |           |
|---------------------------|-----------|
| Status display present    | Yes       |
| Operating voltage display | Green LED |

## Dimensions

### Item dimensions

|        |         |
|--------|---------|
| Width  | 174 mm  |
| Height | 89.6 mm |

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|       |         |
|-------|---------|
| Depth | 79.3 mm |
|-------|---------|

## Environmental and real-life conditions

### Ambient conditions

|                                              |                  |
|----------------------------------------------|------------------|
| Degree of protection (Module)                | IP00             |
| Degree of protection (Installation location) | ≤ IP54           |
| Ambient temperature (operation)              | -20 °C ... 70 °C |
| Ambient temperature (storage/transport)      | -20 °C ... 70 °C |
| Altitude                                     | ≤ 2000 m         |

## Approvals

### UKCA

|             |                |
|-------------|----------------|
| Certificate | UKCA-compliant |
|-------------|----------------|

## Standards and regulations

### Air clearances and creepage distances

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

## Mounting

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

## Notes

|                    |                                                                                                                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

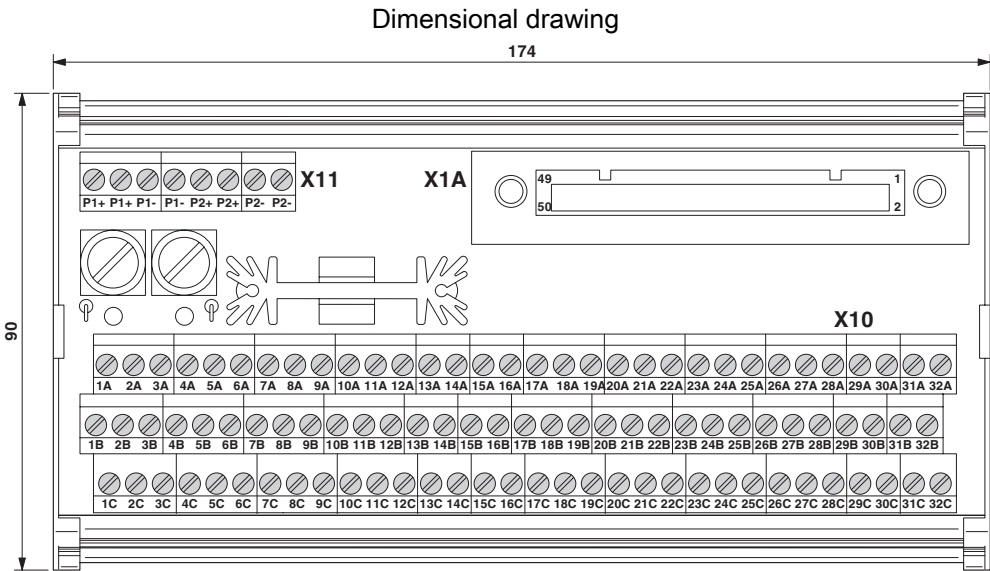
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## Drawings



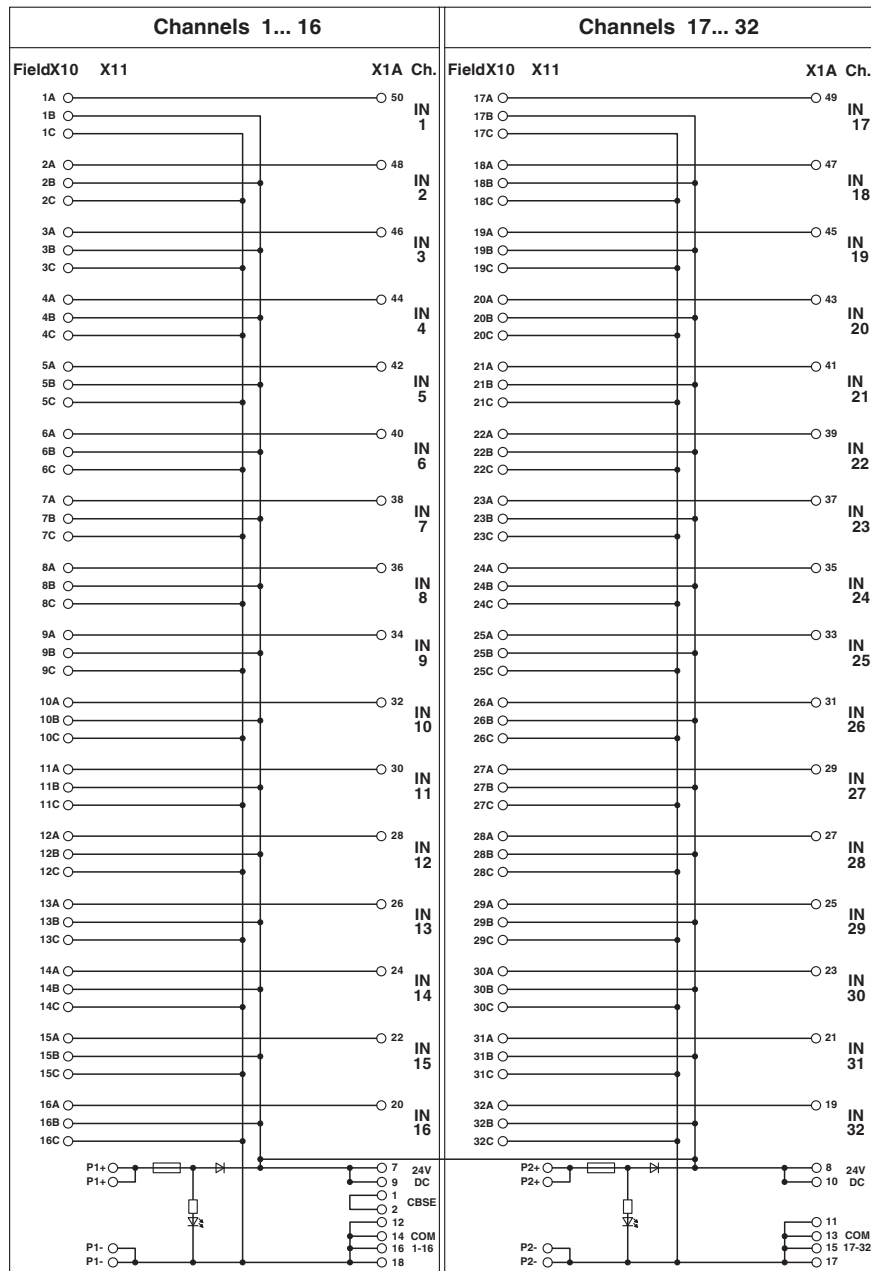
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Circuit diagram



# FLKMS-KS50/32IM/YCS - Passive module



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2314451>

|                                                                                                                       |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>CSA</b><br>Approval ID: LR 13631 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                       | 24 V                  | 2 A                   | -                 | -                           |

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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 |
|-------------|----------|

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                                    | 2fe27b31-1ef9-4077-9c5c-4751bef32140                                                                                                                                                                                              |