

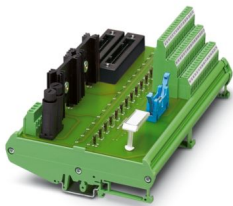
# FLKMS-KS40/AI/YCS - Passive module



2314286

<https://www.phoenixcontact.com/us/products/2314286>

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16-channel analog module with screw connection. The voltage supply and the 40-pos. system connection are designed redundantly. Suitable for the Yokogawa AAI141 and AAI143 cards.

## Your advantages

- For AAI 141 and AAI 143 analog modules (module operation in 4-conductor mode)
- Redundant voltage supply (IEC 127-2, 5 x 20, 2 A fuse)

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2314286                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | CK21A4                         |
| Catalog page                         | Page 521 (C-5-2017)            |
| GTIN                                 | 4046356143783                  |
| Weight per piece (including packing) | 623.4 g                        |
| Weight per piece (excluding packing) | 397.9 g                        |
| Customs tariff number                | 85369010                       |
| Country of origin                    | DE                             |

## Technical data

### Product properties

|                 |                  |
|-----------------|------------------|
| Product type    | Interface module |
| No. of channels | 16               |

### Insulation characteristics

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

### Insulation characteristics: Air clearances and creepage distances

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

### Electrical properties

|                                   |                               |
|-----------------------------------|-------------------------------|
| Operating voltage (DC)            | ≤ 30 V DC                     |
| Fuse                              | 2 A 5x20 (fast-blow) (F1, F2) |
| Current (per branch)              | ≤ 0.1 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 | AAI141 |
|                   | AAI143 |

### Supported controller YOKOGAWA STARDOM

|                   |         |
|-------------------|---------|
| Suitable I/O card | NFAI143 |
|                   | NFAI143 |

### Connection data

#### Connection 1 (control level)

|                       |   |
|-----------------------|---|
| Connection method     | Yokogawa KS-compatible                                    |
| Number of connections | 2   |
| Number of positions   | 40  |
| Note                  | Usable system cables: Phoenix Contact YUC40, Yokogawa KS1 |
| Tightening torque     | 0.5 Nm  |
| Pitch                 | 2.54 mm   |

#### Connection 2 (field level)

|                     |                  |
|---------------------|------------------|
| Connection method   | Screw connection |
| Stripping length    | 8 mm             |
| Screw thread        | M3               |
| Number of positions | 48               |

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|                                  |                     |
|----------------------------------|---------------------|
| Conductor cross section rigid    | 0.2 mm² ... 4 mm²   |
| Conductor cross section flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross section AWG      | 24 ... 12           |

## Connection 3 (HART connector)

|                       |                |
|-----------------------|----------------|
| Connection method     | HART connector |
| Number of connections | 1              |
| Number of positions   | 26             |
| Pitch                 | 1.27 mm        |

## Connection 4 (supply)

|                                  |                     |
|----------------------------------|---------------------|
| Connection method                | Screw connection    |
| Stripping length                 | 8 mm                |
| Screw thread                     | M3                  |
| Number of positions              | 6                   |
| Conductor cross section rigid    | 0.2 mm² ... 4 mm²   |
| Conductor cross section flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross section AWG      | 24 ... 12           |

## Signaling

|                        |    |
|------------------------|----|
| Status display present | No |
|------------------------|----|

## Dimensions

### Item dimensions

|        |          |
|--------|----------|
| Width  | 215.5 mm |
| Height | 125.4 mm |
| 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 ... 50 °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 |
|-----------------------|----------------|

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## Mounting

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

## Notes

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