

# FLK 40-PA/EZ-DR/KS/1200/YUC - Front adapter



2321431

<https://www.phoenixcontact.com/us/products/2321431>

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Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 12.0 m

## Your advantages

- Molded connectors
- KS/AKB-compatible connectors on the module side
- Can be screwed on
- Lateral cable outlet of the I/O module

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2321431                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | CK2154                         |
| Catalog page                         | Page 466 (C-7-2013)            |
| GTIN                                 | 4046356333153                  |
| Weight per piece (including packing) | 2,010.3 g                      |
| Weight per piece (excluding packing) | 2,010.3 g                      |
| Customs tariff number                | 85444290                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|              |               |
|--------------|---------------|
| Product type | Front adapter |
|--------------|---------------|

### Electrical properties

|                        |                       |
|------------------------|-----------------------|
| Operating voltage (DC) | ≤ 30 V DC             |
| Nominal operating mode | 100% operating factor |
| Current (Per path)     | ≤ 500 mA (uncoiled)   |

#### Supported controller YOKOGAWA CS3000 CentumVP

|                   |        |
|-------------------|--------|
| Suitable I/O card | AAI543 |
|                   | AAI141 |
|                   | AAI143 |
|                   | AAI835 |
|                   | AAI841 |
|                   | AAI135 |
|                   | AAR181 |
|                   | AAT141 |
|                   | AAV141 |
|                   | AAV142 |
|                   | AAB841 |
|                   | AAV542 |

#### Supported controller YOKOGAWA STARDOM

|                   |         |
|-------------------|---------|
| Suitable I/O card | NFAI543 |
|                   | NFAI141 |
|                   | NFAI143 |
|                   | NFAI835 |
|                   | NFAI841 |
|                   | NFAI135 |
|                   | NFAV141 |
|                   | NFAV142 |
|                   | NFAB841 |
|                   | NFAV542 |

#### Supported controller YOKOGAWA ProSafe-RS

|                   |        |
|-------------------|--------|
| Suitable I/O card | SAI143 |
|                   | SAV144 |
|                   | SAI533 |

## Connection data

### Connection 1

|                                  |                       |
|----------------------------------|-----------------------|
| Connection in acc. with standard | based on IEC 60603-13 |
|----------------------------------|-----------------------|

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|                             |                                |
|-----------------------------|--------------------------------|
| Connection method           | Yokogawa, I/O cards compatible |
| Number of connections       | 1                              |
| Number of positions         | 40                             |
| Tightening torque           | 0.5 Nm (Screw connection)      |
| Insertion/withdrawal cycles | > 50                           |
| Pitch                       | 2.54 mm                        |

## Connection 2

|                                  |                           |
|----------------------------------|---------------------------|
| Connection in acc. with standard | based on IEC 60603-13     |
| Connection method                | Yokogawa, KS compatible   |
| Number of connections            | 1                         |
| Number of positions              | 40                        |
| Tightening torque                | 0.5 Nm (Screw connection) |
| Insertion/withdrawal cycles      | > 50                      |
| Pitch                            | 2.54 mm                   |

## Dimensions

### Cable

|        |      |
|--------|------|
| Length | 12 m |
|--------|------|

### Cable/line

#### 40X0.14 [PVC]

|   |   |
|---|---|
| UL AWM Style                                  | 2464/1061   |
| Number of positions                           | 40  |
| Shielded                                      | yes   |
| Cable type                                    | 40X0.14 [PVC]   |
| Conductor type                                | Assembled shielded round cable  |
| Conductor structure signal line               | 7x 0.16 mm  |
| AWG signal line                               | 26  |
| Conductor cross section                       | 40x 0.14 mm <sup>2</sup>  |
| Wire diameter incl. insulation                | 1 mm ±0.03 mm   |
| External cable diameter                       | 9.80 mm ±0.3 mm   |
| Outer sheath, material                        | Semi-rigid PVC  |
| External sheath, color                        | gray  |
| Conductor material                            | Tin-plated Cu litz wires  |
| Cable resistance                              | ≤ 145 Ω/km (at 20 °C)   |
| Insulation resistance                         | ≥ 20 MΩ*km (20 °C)  |
| Smallest bending radius, fixed installation   | 101 mm  |
| Smallest bending radius, movable installation | 182 mm  |
| Max. bending cycles                           | 5000 (at a radius of ≥ 18x outside diameter)  |
| Halogen-free                                  | no  |
| Flame resistance                              | IEC 60332-1-2 (raw cable)<br>VDE 0842, Part 332-1-2 (raw cable)<br>IEC 60332-3-22 (raw cable) |

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|                   |   |
|-------------------|---|
|                   | UL VW-1                                       |
|                   | CSA FT-1                                      |
| Resistance to oil | can withstand occasional splashes (raw cable) |

## Environmental and real-life conditions

### Ambient conditions

|  |   |
|--|---|
| Degree of protection                         | IP20  |
| Degree of protection (Installation location) | ≥ IP54 (Installation location)  |
| Ambient temperature (operation)              | -40 °C ... 70 °C (fixed installation)<br>-10 °C ... 70 °C (flexible installation) |
| Ambient temperature (storage/transport)      | -40 °C ... 80 °C  |
| Altitude                                     | ≤ 2000 m  |

## Approvals

### UKCA

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

## 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 | 27242292 |
| ECLASS-12.0 | 27242292 |
| ECLASS-13.0 | 27242292 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002584 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
|-------------|----------|

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## Environmental product compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e<br>No hazardous substances above threshold values |
|------------|---|

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