

# FLK 40-PA/EZ-DR/KS/4000/YUC - Front adapter



2901052

<https://www.phoenixcontact.com/us/products/2901052>

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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: 40.0 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2901052                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | DK222N                         |
| GTIN                                 | 4046356567015                  |
| Weight per piece (including packing) | 6,398 g                        |
| Weight per piece (excluding packing) | 6,398 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 | IEC 60603-13 (in compliance) |
|----------------------------------|------------------------------|

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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 | IEC 60603-13 (in compliance) |
| 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 | 40 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  |
| Dynamic load capacity (bending)               | 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)   |

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|                   |   |
|-------------------|---|
|                   | IEC 60332-3-22 (raw cable)                    |
|                   | 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) (fixed installation)    | -40 °C ... 70 °C (fixed installation)    |
| Ambient temperature (operation) (flexible installation) | -10 °C ... 70 °C (flexible installation) |
| Ambient temperature (storage/transport)                 | -40 °C ... 80 °C                         |
| Altitude  | ≤ 2000 m                                 |

## Approvals

### UKCA

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

## 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

Connection diagram

| 40-pos.<br>connector the<br>I/O card | 40-pos.<br>connector to<br>the module | Wire color    |
|--------------------------------------|---------------------------------------|---------------|
| 1                                    | 40                                    | black         |
| 2                                    | 39                                    | brown         |
| 3                                    | 38                                    | red           |
| 4                                    | 37                                    | orange        |
| 5                                    | 36                                    | yellow        |
| 6                                    | 35                                    | green         |
| 7                                    | 34                                    | blue          |
| 8                                    | 33                                    | violet        |
| 9                                    | 32                                    | gray          |
| 10                                   | 31                                    | white         |
| 11                                   | 30                                    | white-black   |
| 12                                   | 29                                    | white-brown   |
| 13                                   | 28                                    | white-red     |
| 14                                   | 27                                    | white-orange  |
| 15                                   | 26                                    | white-yellow  |
| 16                                   | 25                                    | white-green   |
| 17                                   | 24                                    | white-blue    |
| 18                                   | 23                                    | white-violet  |
| 19                                   | 22                                    | white-gray    |
| 20                                   | 21                                    | brown-black   |
| 21                                   | 20                                    | brown-red     |
| 22                                   | 19                                    | brown-orange  |
| 23                                   | 18                                    | brown-yellow  |
| 24                                   | 17                                    | brown-green   |
| 25                                   | 16                                    | brown-blue    |
| 26                                   | 15                                    | brown-violet  |
| 27                                   | 14                                    | brown-gray    |
| 28                                   | 13                                    | brown-white   |
| 29                                   | 12                                    | green-black   |
| 30                                   | 11                                    | green-brown   |
| 31                                   | 10                                    | green-red     |
| 32                                   | 9                                     | green-orange  |
| 33                                   | 8                                     | green-blue    |
| 34                                   | 7                                     | green-violet  |
| 35                                   | 6                                     | green-gray    |
| 36                                   | 5                                     | green-white   |
| 37                                   | 4                                     | yellow-black  |
| 38                                   | 3                                     | yellow-brown  |
| 39                                   | 2                                     | yellow-red    |
| 40                                   | 1                                     | yellow-orange |

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## Classifications

### ECLASS

ECLASS-13.0

27242292

### ETIM

ETIM 9.0

EC002584

### UNSPSC

UNSPSC 21.0

32151600

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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