# FLK 40-PA/EZ-DR/HF/KS/3500/YUC - Front adapter

2904650

https://www.phoenixcontact.com/us/products/2904650

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Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 35.0 m

## Your advantages

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

## Commercial data

| | |
|---|---|
| Item number | 2904650 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C421 |
| Product key | DK222N |
| GTIN | 4046356868297 |
| Weight per piece (including packing) | 5,734 g |
| Weight per piece (excluding packing) | 5,393 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

## 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) |

| | |
|---|---|
| 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 | 35 m |

## Cable/line

| | |
|---|---|
| UL AWM Style | 21946 |
| Number of positions | 40 |
| Shielded | yes |
| Conductor type | Assembled, shielded, halogen-free round cable |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |
| Conductor cross-section | 40x 0.14 mm² |
| Wire diameter incl. insulation | 1 mm ±0.03 mm |
| External cable diameter | 9.80 mm ±0.4 mm |
| Outer sheath, material | Halogen-free sheath |
| External sheath, color | gray |
| Conductor material | Tin-plated Cu litz wires |
| Cable resistance | ≤ 145 Ω/km |
| Insulation resistance | ≥ 20 MΩ*km |
| Smallest bending radius, fixed installation | 102 mm |
| Smallest bending radius, movable installation | 184 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 5000 |
| Halogen-free | yes |
| Flame resistance | IEC 60332-1-2 (raw cable) |
| | VDE 0842, Part 332-1-2 (raw cable) |
| | IEC 60332-3-22 (raw cable) |
| 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 |

## 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. |

## Drawings

Connection diagram

| 40-pos. connector the I/O card | 40-pos. connector to 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 |

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2904650

**EAC**
Approval ID: RU*-DE.HB*35.B00385

**UL Listed**
Approval ID: E238705

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 125 V | 0.5 A | - | - |

**cUL Listed**
Approval ID: E238705

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 125 V | 0.5 A | - | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27242292 |
| ECLASS-15.0 | 27242292 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002584 |

### UNSPSC

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

## 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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