

FLK 50-PA/EZ-DR/HF/KS/1000/YOC - Front adapter



2904994

<https://www.phoenixcontact.com/us/products/2904994>

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Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa ProSafe controllers. Cable length: 10.0 m

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2904994 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | DK222N |
| GTIN | 4046356906975 |
| Weight per piece (including packing) | 2,035 g |
| Weight per piece (excluding packing) | 2,035 g |
| 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 ProSafe-RS

| | |
|-------------------|---------|
| Suitable I/O card | SDV531 |
| | SDV531L |

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 | 50 |
| 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 | 50 |
| Tightening torque | 0.5 Nm (Screw connection) |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

Dimensions

Cable

| | |
|--------|------|
| Length | 10 m |
|--------|------|

Cable/line

| | |
|---------------------------------|---|
| UL AWM Style | 21946 |
| Number of positions | 50 |
| Shielded | yes |
| Conductor type | Assembled, shielded, halogen-free round cable |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |

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| | |
|---|---|
| Conductor cross-section | 50x 0.14 mm ² |
| Wire diameter incl. insulation | 1 mm ±0.03 mm |
| External cable diameter | 11.00 mm ±0.4 mm |
| External sheath, color | gray |
| Conductor material | Tin-plated Cu litz wires |
| Smallest bending radius, fixed installation | 114 mm |
| Smallest bending radius, movable installation | 205 mm |
| 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. |
|--------------------|--|

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Drawings

Connection diagram

| 50-pos. connector to the I/O card | 50-pos. connector to the module | Wire color |
|---|---------------------------------------|---------------|
| 1 | 50 | black |
| 2 | 49 | brown |
| 3 | 48 | red |
| 4 | 47 | orange |
| 5 | 46 | yellow |
| 6 | 45 | green |
| 7 | 44 | blue |
| 8 | 43 | violet |
| 9 | 42 | gray |
| 10 | 41 | white |
| 11 | 40 | white-black |
| 12 | 39 | white-brown |
| 13 | 38 | white-red |
| 14 | 37 | white-orange |
| 15 | 36 | white-yellow |
| 16 | 35 | white-green |
| 17 | 34 | white-blue |
| 18 | 33 | white-violet |
| 19 | 32 | white-gray |
| 20 | 31 | brown-black |
| 21 | 30 | brown-red |
| 22 | 29 | brown-orange |
| 23 | 28 | brown-yellow |
| 24 | 27 | brown-green |
| 25 | 26 | brown-blue |
| 26 | 25 | brown-violet |
| 27 | 24 | brown-gray |
| 28 | 23 | brown-white |
| 29 | 22 | green-black |
| 30 | 21 | green-brown |
| 31 | 20 | green-red |
| 32 | 19 | green-orange |
| 33 | 18 | green-blue |
| 34 | 17 | green-violet |
| 35 | 16 | green-gray |
| 36 | 15 | green-white |
| 37 | 14 | yellow-black |
| 38 | 13 | yellow-brown |
| 39 | 12 | yellow-red |
| 40 | 11 | yellow-orange |
| 41 | 10 | yellow-blue |
| 42 | 9 | yellow-violet |
| 43 | 8 | yellow-gray |
| 44 | 7 | yellow-white |
| 45 | 6 | gray-black |
| 46 | 5 | gray-brown |
| 47 | 4 | gray-red |
| 48 | 3 | gray-orange |
| 49 | 2 | gray-yellow |
| 50 | 1 | gray-green |

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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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