

2905002

<https://www.phoenixcontact.com/us/products/2905002>

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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: 50.0 m

Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2905002       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | DK222N        |
| GTIN                                 | 4046356907002 |
| Weight per piece (including packing) | 333.333 g     |
| Weight per piece (excluding packing) | 333.333 g     |
| 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 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 | 50 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                                            |

# FLK 50-PA/EZ-DR/HF/KS/5000/YOC - Front adapter



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|                                               |                                               |
|-----------------------------------------------|-----------------------------------------------|
| Conductor cross section                       | 50x 0.14 mm <sup>2</sup>                      |
| 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.<br>connector to<br>the I/O card | 50-pos.<br>connector to<br>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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