

## Front adapters - FLK 50-PA/EZ-DR/KS/ 300/YUC - 2314309

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 3.0 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

RoHS

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 046356 101998 |
| GTIN                                 | 4046356101998                                                                                           |
| Weight per Piece (excluding packing) | 691.800 g                                                                                               |
| Custom tariff number                 | 85444290                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### Technical data

#### Note

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Type of note | Notes on operation                                                                                      |
| Note         | No additional touch protection is required when using a SELV/PELV voltage ( $\leq 25$ V AC or 60 V DC). |

#### Ambient conditions

|                                 |                                          |
|---------------------------------|------------------------------------------|
| Ambient temperature (operation) | -40 °C ... 70 °C (fixed installation)    |
|                                 | -10 °C ... 70 °C (flexible installation) |

# Front adapters - FLK 50-PA/EZ-DR/KS/ 300/YUC - 2314309

## Technical data

### Ambient conditions

|                                         |                                |
|-----------------------------------------|--------------------------------|
| Ambient temperature (storage/transport) | -40 °C ... 80 °C               |
| Maximum altitude                        | ≤ 2000 m                       |
| Degree of protection                    | IP20                           |
|                                         | ≥ IP54 (Installation location) |

### General

|                                    |                       |
|------------------------------------|-----------------------|
| Max. permissible operating voltage | 30 V DC               |
| Max. permissible current           | 500 mA (per path)     |
| Mounting position                  | any                   |
| Nominal operating mode             | 100% operating factor |

### Standards and Regulations

|                          |                                       |
|--------------------------|---------------------------------------|
| Flame resistance         | UL VW-1                               |
|                          | CSA FT-1                              |
|                          | IEC 60332-1-2                         |
|                          | VDE 0842, Part 332-1-2                |
|                          | IEC 60332-3-22                        |
| Resistance to oil        | against occasional splashes           |
| Gasoline resistance      | against occasional splashes           |
| Designation              | Air clearances and creepage distances |
| Standards/regulations    | DIN EN 50178                          |
| Rated insulation voltage | 63 V                                  |
| Rated surge voltage      | 0.6 kV                                |
| Insulation               | Functional insulation                 |
| Pollution degree         | 2                                     |
| Overvoltage category     | II                                    |

### Connection data

|                             |                                |
|-----------------------------|--------------------------------|
| Connection name             | Control side                   |
| Connection method           | Yokogawa, I/O cards compatible |
| Number of connections       | 1                              |
| Number of positions         | 50                             |
| Torque                      | 0.5 Nm (Screw connection)      |
| Insertion/withdrawal cycles | > 50                           |

### Connection data 2

|                       |                         |
|-----------------------|-------------------------|
| Connection name       | Module side             |
| Connection method     | Yokogawa, KS compatible |
| Number of connections | 1                       |

## Front adapters - FLK 50-PA/EZ-DR/KS/ 300/YUC - 2314309

### Technical data

#### Connection data 2

|                             |                           |
|-----------------------------|---------------------------|
| Number of positions         | 50                        |
| Torque                      | 0.5 Nm (Screw connection) |
| Insertion/withdrawal cycles | > 50                      |

#### Cable

|                                               |                       |
|-----------------------------------------------|-----------------------|
| Conductor construction: Number of litz wires: | 7                     |
| Single wire, material                         | Cu tin-plated         |
| Single wire, cross section                    | 0.14 mm <sup>2</sup>  |
| Length of cable                               | 3 m                   |
| Outer sheath, material                        | Semi-rigid PVC        |
| External sheath, color                        | gray                  |
| Shielding                                     | yes                   |
| Halogen-free cable                            | No                    |
| Cable insulation resistance                   | ≥ 20 MΩ/km (at 20 °C) |
| Cable resistance                              | ≤ 145 Ω/km (at 20 °C) |

#### Supported controller

|                     |                          |
|---------------------|--------------------------|
| Controller          | YOKOGAWA CS3000 CentumVP |
| - suitable I/O card | ADV151                   |
|                     | ADV551                   |
| Controller          | YOKOGAWA STARDOM         |
| - suitable I/O card | NFDV151                  |
|                     | NFDV551                  |

#### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                      |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

## Front adapters - FLK 50-PA/EZ-DR/KS/ 300/YUC - 2314309

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    |

## Front adapters - FLK 50-PA/EZ-DR/KS/ 300/YUC - 2314309

### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27242292 |
| eCl@ss 4.0    | 27060300 |
| eCl@ss 4.1    | 27060300 |
| eCl@ss 5.0    | 27061800 |
| eCl@ss 5.1    | 27061800 |
| eCl@ss 6.0    | 27249200 |
| eCl@ss 7.0    | 27249290 |
| eCl@ss 8.0    | 27249290 |
| eCl@ss 9.0    | 27242292 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC002584 |
| ETIM 5.0 | EC002584 |
| ETIM 6.0 | EC002584 |
| ETIM 7.0 | EC002584 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 26121620 |
| UNSPSC 7.0901 | 26121620 |
| UNSPSC 11     | 26121620 |
| UNSPSC 12.01  | 26121620 |
| UNSPSC 13.2   | 32151601 |
| UNSPSC 18.0   | 32151601 |
| UNSPSC 19.0   | 32151601 |
| UNSPSC 20.0   | 32151601 |
| UNSPSC 21.0   | 32151601 |

### Approvals

#### Approvals

---

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

---

Ex Approvals

---

## Front adapters - FLK 50-PA/EZ-DR/KS/ 300/YUC - 2314309

### Approvals

#### Approval details

|                    |                                                                                   |                                                                                                                                                       |               |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Listed          |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|                    |                                                                                   |                                                                                                                                                       |               |
| Nominal voltage UN |                                                                                   | 125 V                                                                                                                                                 |               |
| Nominal current IN |                                                                                   | 0.5 A                                                                                                                                                 |               |

|                    |                                                                                   |                                                                                                                                                       |               |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Listed         |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|                    |                                                                                   |                                                                                                                                                       |               |
| Nominal voltage UN |                                                                                   | 125 V                                                                                                                                                 |               |
| Nominal current IN |                                                                                   | 0.5 A                                                                                                                                                 |               |

|     |                                                                                     |                         |  |
|-----|-------------------------------------------------------------------------------------|-------------------------|--|
| EAC |  | RU C-<br>DE.A*30.B00767 |  |
|-----|-------------------------------------------------------------------------------------|-------------------------|--|

|              |                                                                                     |  |  |
|--------------|-------------------------------------------------------------------------------------|--|--|
| cULus Listed |  |  |  |
|--------------|-------------------------------------------------------------------------------------|--|--|

### Accessories

#### Accessories

##### Marker carrier cable

Cable marker carrier - KME - 0807083



Cable marker carrier, white, unlabeled, mounting type: Assembly with cable binders, cable diameter: > 5 mm, lettering field size: 20 mm x 8 mm

### Spare parts

## Front adapters - FLK 50-PA/EZ-DR/KS/ 300/YUC - 2314309

### Accessories

Screw set - VF-SCREW-YOKOGAWA/M3X18/DCS - 2902873



Replacement screw M3x18 for Yokogawa system cable, front adapter control side.

---

Screw set - VF-SCREW-YOKOGAWA/M4X25/KS - 2902874



Replacement screw M4x25 for Yokogawa system cable, module side.

---