

## Front adapters - FLK 50-PA/EZ-DR/KS/1200/YUC - 2321525

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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: 12.0 m

### Your advantages

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

### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 pc  |
| GTIN         | <br>4 046356 339544 |
| GTIN         | 4046356339544   |

### 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) |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C                         |
| Maximum altitude                        | $\leq 2000$ m                            |
| Degree of protection                    | IP20                                     |
|   | $\geq$ IP54 (Installation location)      |

#### General

|                                    |         |
|------------------------------------|---------|
| Max. permissible operating voltage | 30 V DC |
|------------------------------------|---------|

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## Technical data

### General

|                          |                       |
|--------------------------|-----------------------|
| 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                         |
| 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                               | 12 m                 |
| Outer sheath, material                        | Semi-rigid PVC       |
| External sheath, color                        | gray                 |

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### Technical data

#### Cable

|                             |  |
|-----------------------------|--|
| Shielding                   | yes  |
| Halogen-free cable          | No   |
| Cable insulation resistance | $\geq 20 \text{ M}\Omega/\text{km}$ (at 20 °C) |
| Cable resistance            | $\leq 145 \text{ }\Omega/\text{km}$ (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/1200/YUC - 2321525

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    |

### 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 |

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## Classifications

### 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

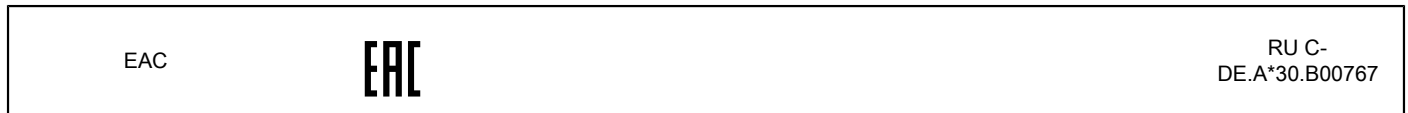
### Approval details

|                    |   |   |               |
|--------------------|---|---|---------------|
| 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   |   |               |

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### Approvals



### Accessories

#### Spare parts

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



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

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



Replacement screw M4x25 for Yokogawa system cable, module side.

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