

## Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 300/YUC - 2904741

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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 controllers. Cable length: 3.0 m

### Why buy this product

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

### Key Commercial Data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 STK     |
| Weight per Piece (excluding packing) | 700.000 g |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Germany   |

### Technical data

#### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -20 °C ... 70 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

#### General

|                          |                                   |
|--------------------------|-----------------------------------|
| Nominal voltage $U_N$    | 30 V DC                           |
| Max. permissible current | 500 mA (per path at 70°C)         |
| Designation              | Halogen-free sheath               |
| Standards/regulations    | IEC 60754-1                       |
| Designation              | No development of corrosive fumes |
| Standards/regulations    | IEC 60267-2                       |

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### Technical data

#### Connection data 1

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

#### Connection data 2

|                       |                           |
|-----------------------|---------------------------|
| Connection name       | Field level               |
| Connection method     | Yokogawa, KS compatible   |
| Torque                | 0.5 Nm (Screw connection) |
| Number of connections | 1                         |
| Number of positions   | 50                        |

#### Cable

|                             |                                    |
|-----------------------------|------------------------------------|
| Structural data             | in acc. to UL style 2464/1061      |
| Individual wires per module | 7                                  |
| Single wire, material       | Cu tin-plated                      |
| Single wire, cross section  | 0.14 mm <sup>2</sup>               |
| External diameter           | 11 mm                              |
| Length of cable             | 3 m                                |
| Outer sheath, material      | PVC                                |
| External sheath, color      | gray RAL 7035                      |
| Shielding                   | yes                                |
| Halogen-free cable          | Yes                                |
| Max. conductor resistance   | 0.16 Ω/m                           |
| Cable insulation resistance | approx. 153 MΩ/km                  |
| Cable impedance             | approx. 120 Ω                      |
| Cable resistance            | approx. 155 Ω/km                   |
| Cable capacity              | approx. 130 pF/m                   |
| Insulation                  | Semi-rigid PVC                     |
| Flame resistance            | IEC 60332-3-22                     |
| Resistance to oil           | DIN VDE 0472 Part 803, test type B |
| Gasoline resistance         | Against occasional splashes        |

#### Supported controller

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

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### Technical data

#### Supported controller

|                     |         |
|---------------------|---------|
| - suitable I/O card | NFDV151 |
|                     | NFDV551 |

#### Standards and Regulations

|                       |                                    |
|-----------------------|------------------------------------|
| Resistance to oil     | DIN VDE 0472 Part 803, test type B |
| Flame resistance      | IEC 60332-3-22                     |
| Designation           | Halogen-free sheath                |
| Standards/regulations | IEC 60754-1                        |
| Designation           | No development of corrosive fumes  |
| Standards/regulations | IEC 60267-2                        |

### Drawings

## Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 300/YUC - 2904741

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 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27260701 |
| eCl@ss 6.0 | 27260704 |
| eCl@ss 7.0 | 27141152 |
| eCl@ss 8.0 | 27249290 |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 9.0 | 27242292 |
|------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC000237 |
| ETIM 5.0 | EC002584 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211810 |
| UNSPSC 7.0901 | 39121409 |
| UNSPSC 11     | 39121409 |
| UNSPSC 12.01  | 39121409 |
| UNSPSC 13.2   | 39121409 |

## Approvals

### Approvals

#### Approvals

EAC / UL Listed / cUL Listed / cULus Listed

#### Ex Approvals

### Approval details

|                         |
|-------------------------|
| EAC RU C-DE.A*30.B00767 |
|-------------------------|

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

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