

## Front adapters - FLK 40-PA/EZ-DR/KS/2000/YUC - 2314532

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Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 20.0 m

### Your advantages

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

RoHS

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 046356 133678 |
| GTIN                                 | 4046356133678                                                                                           |
| Weight per Piece (excluding packing) | 3,525.000 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) |

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### 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)     |
| 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         | 40                             |
| 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   | 40                      |

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### Technical data

#### Connection data 2

|                             |                           |
|-----------------------------|---------------------------|
| 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                               | 20 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 | AAI543                   |
|                     | AAI141                   |
|                     | AAI143                   |
|                     | AAI835                   |
|                     | AAI841                   |
|                     | AAI135                   |
|                     | AAR181                   |
|                     | AAT141                   |
|                     | AAV141                   |
|                     | AAV142                   |
|                     | AAB841                   |
|                     | AAV542                   |
| Controller          | YOKOGAWA STARDOM         |
| - suitable I/O card | NFAI543                  |
|                     | NFAI141                  |
|                     | NFAI143                  |
|                     | NFAI835                  |
|                     | NFAI841                  |
|                     | NFAI135                  |
|                     | NFAV141                  |
|                     | NFAV142                  |

## Front adapters - FLK 40-PA/EZ-DR/KS/2000/YUC - 2314532

### Technical data

#### Supported controller

|  |         |
|--|---------|
|  | NFAB841 |
|  | NFAV542 |

#### 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 40-PA/EZ-DR/KS/2000/YUC - 2314532

Connection diagram

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

## Front adapters - FLK 40-PA/EZ-DR/KS/2000/YUC - 2314532

### 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

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Approvals

UL Listed / cUL Listed / EAC / cULus Listed

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Ex Approvals

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### 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 40-PA/EZ-DR/KS/2000/YUC - 2314532

### Accessories

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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