

# Relay Module - UM-KS50/32MR/1/ADV151/SC/SO207 - 2900898


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32-channel VARIOFACE relay module with screw connection and 50-pos. system connection. The power supply is designed redundantly, for Yokogawa ADV 151 card, module width: 232.5 mm

RoHS

## Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 046356 548403 |
| GTIN                                 | 4046356548403   |
| Weight per Piece (excluding packing) | 500.000 g   |
| Custom tariff number                 | 85369010  |
| Country of origin                    | Germany   |
| Note                                 | Made to Order (non-returnable)  |

## Technical data

### Note

|                         |   |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

### Dimensions

|        |          |
|--------|----------|
| Width  | 232.5 mm |
| Height | 127.5 mm |
| Depth  | 44 mm    |

### Ambient conditions

|                                 |                                |
|---------------------------------|--------------------------------|
| Ambient temperature (operation) | -20 °C ... 50 °C               |
| Maximum altitude                | ≤ 2000 m                       |
| Degree of protection            | IP00                           |
|                                 | ≥ IP54 (Installation location) |

### Input data

# Relay Module - UM-KS50/32MR/1/ADV151/SC/SO207 - 2900898

## Technical data

### Input data

|   |                             |
|---|-----------------------------|
| Nominal input voltage $U_N$               | 24 V DC                     |
| Input voltage range in reference to $U_N$ | 0.8 ... 1.1                 |
| Typical input current at $U_N$            | 9 mA (per relay)            |
| Protective circuit/component              | Damping diode               |
| Type of protection                        | Reverse polarity protection |
| Protective circuit/component              | Polarity protection diode   |
| Status display/channel                    | Yellow LED                  |

### Output data

|                             |                         |
|-----------------------------|-------------------------|
| Contact type                | 1 N/O contact           |
| Contact material            | AgSnO, hard gold-plated |
| Maximum switching voltage   | 24 V AC/DC              |
| Limiting continuous current | max. 2 A                |

### General

|                   |     |
|-------------------|-----|
| No. of channels   | 32  |
| Mounting position | any |

### Connection data

|                                  |   |
|----------------------------------|---|
| Connection name                  | Field level                                 |
| Connection method                | Screw connection                            |
| Conductor cross section solid    | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Conductor cross section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 24 ... 12                                   |

### Connection data 2

|                       |                        |
|-----------------------|------------------------|
| Connection name       | Controller level       |
| Connection method     | Yokogawa KS-compatible |
| Number of connections | 1                      |
| Number of positions   | 50                     |
| Torque                | 0.5 Nm                 |

### Connection data 3

|                                  |   |
|----------------------------------|---|
| Connection name                  | Supply                                      |
| Connection method                | Screw connection                            |
| Number of positions              | 8   |
| Conductor cross section solid    | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Conductor cross section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 24 ... 12                                   |

### Supported controller

|                     |                          |
|---------------------|--------------------------|
| Controller          | YOKOGAWA CS3000 CentumVP |
| - suitable I/O card | ADV151                   |
|                     | ADV161                   |

## Relay Module - UM-KS50/32MR/1/ADV151/SC/SO207 - 2900898

### Technical data

#### Supported controller

|                     |                  |
|---------------------|------------------|
| Controller          | YOKOGAWA STARDOM |
| - suitable I/O card | NFDV151          |
|                     | NFDV161          |

#### Standards and Regulations

|                          |                                       |
|--------------------------|---------------------------------------|
| Designation              | Air clearances and creepage distances |
| Standards/regulations    | DIN EN 50178: 1998-04                 |
| Rated insulation voltage | 63 V                                  |
| Rated surge voltage      | 0.6 kV (1.2/50 µs)                    |
| Insulation               | Functional insulation                 |
| Pollution degree         | 2                                     |
| Overvoltage category     | II                                    |

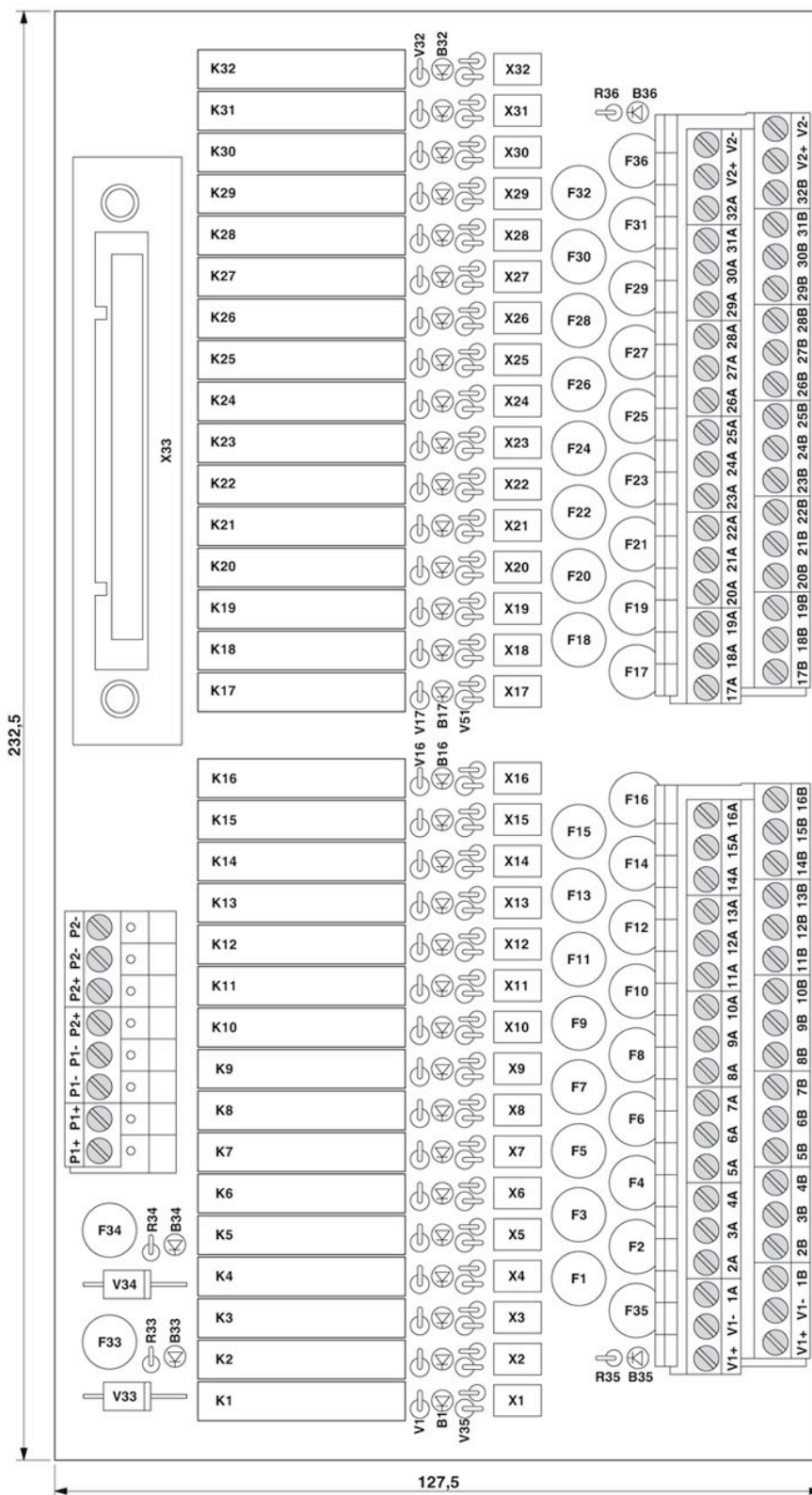
#### Environmental Product Compliance

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

### Drawings

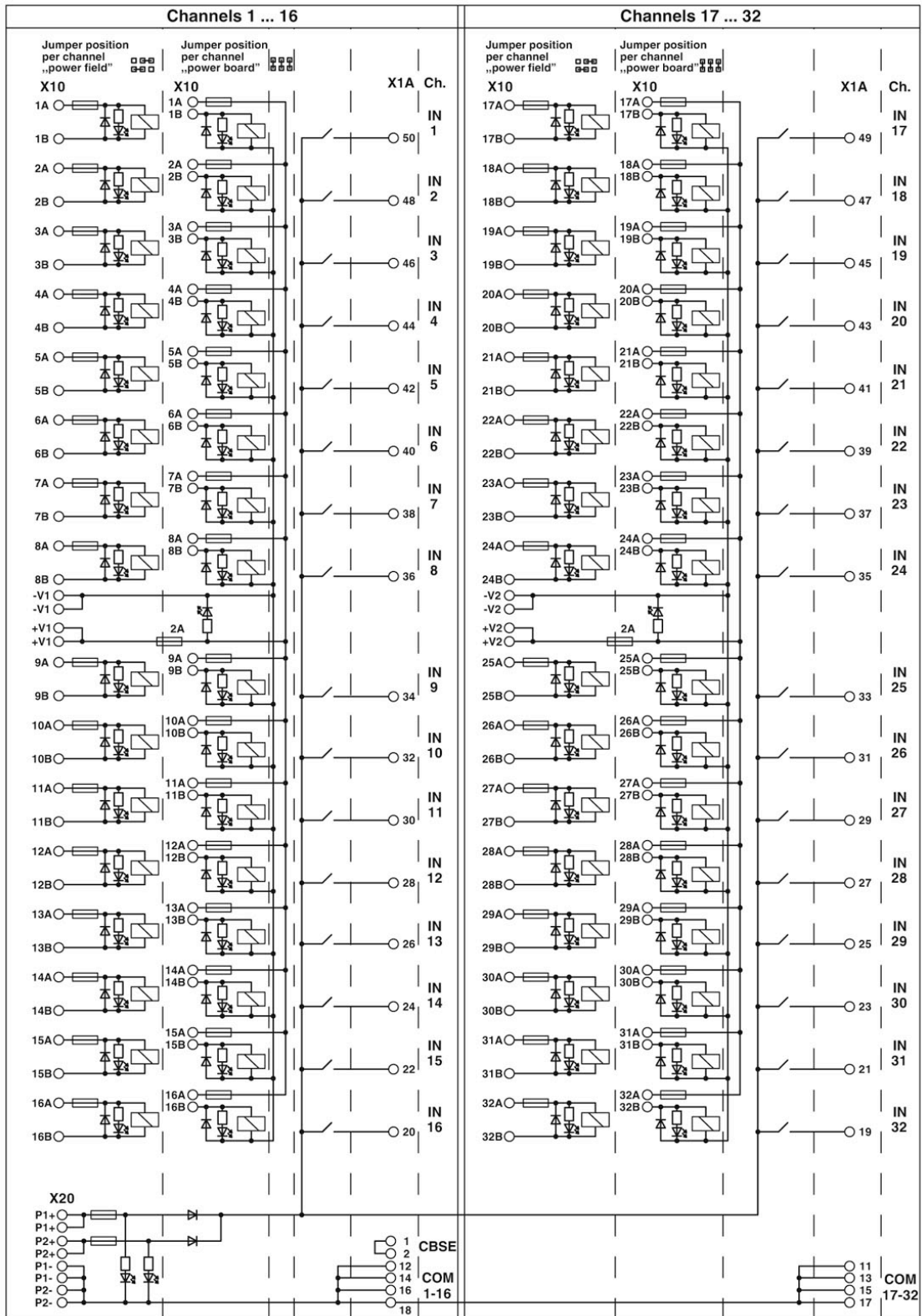
# Relay Module - UM-KS50/32MR/1/ADV151/SC/SO207 - 2900898

Dimensional drawing



# Relay Module - UM-KS50/32MR/1/ADV151/SC/SO207 - 2900898

Circuit diagram



# Relay Module - UM-KS50/32MR/1/ADV151/SC/SO207 - 2900898

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27371100 |
| eCl@ss 4.1 | 27371100 |
| eCl@ss 5.0 | 27371000 |
| eCl@ss 5.1 | 27371000 |
| eCl@ss 6.0 | 27371000 |
| eCl@ss 7.0 | 27141152 |
| eCl@ss 8.0 | 27141152 |
| eCl@ss 9.0 | 27141152 |

### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC002780 |
| ETIM 6.0 | EC002780 |
| ETIM 7.0 | EC002780 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211916 |
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11     | 39121515 |
| UNSPSC 12.01  | 39121515 |
| UNSPSC 13.2   | 39121432 |
| UNSPSC 18.0   | 39121432 |
| UNSPSC 19.0   | 39121432 |
| UNSPSC 20.0   | 39121432 |
| UNSPSC 21.0   | 39121432 |

## Approvals

### Approvals

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Approvals

EAC

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Ex Approvals

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### Approval details

|     |  |                 |
|-----|--|-----------------|
| EAC |  | TR_TS_D_00573_c |
|-----|--|-----------------|

## Relay Module - UM-KS50/32MR/1/ADV151/SC/SO207 - 2900898

### Accessories

#### Accessories

#### Front adapter

##### Front adapters - FLK 50-PA/EZ-DR/KS/ 100/YUC - 2900991



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: 1.0 m

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##### Front adapters - FLK 50-PA/EZ-DR/KS/ 200/YUC - 2314299



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: 2.0 m

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



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

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##### Front adapters - FLK 50-PA/EZ-DR/KS/ 400/YUC - 2314312



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: 4.0 m

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##### Front adapters - FLK 50-PA/EZ-DR/KS/ 500/YUC - 2321499



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: 5.0 m

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## Relay Module - UM-KS50/32MR/1/ADV151/SC/SO207 - 2900898

### Accessories

Front adapters - FLK 50-PA/EZ-DR/KS/ 600/YUC - 2314927



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: 6.0 m

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Front adapters - FLK 50-PA/EZ-DR/KS/ 700/YUC - 2321509



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: 7.0 m

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Front adapters - FLK 50-PA/EZ-DR/KS/ 800/YUC - 2314930



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: 8.0 m

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Front adapters - FLK 50-PA/EZ-DR/KS/ 900/YUC - 2321512



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: 9.0 m

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Front adapters - FLK 50-PA/EZ-DR/KS/1000/YUC - 2314325



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: 10.0 m

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## Relay Module - UM-KS50/32MR/1/ADV151/SC/SO207 - 2900898

### Accessories

Front adapters - FLK 50-PA/EZ-DR/KS/1100/YUC - 2321389



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: 11.0 m

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



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

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Front adapters - FLK 50-PA/EZ-DR/KS/1300/YUC - 2321392



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: 13.0 m

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Front adapters - FLK 50-PA/EZ-DR/KS/1400/YUC - 2321402



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: 14.0 m

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Front adapters - FLK 50-PA/EZ-DR/KS/1500/YUC - 2314338



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: 15.0 m

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## Relay Module - UM-KS50/32MR/1/ADV151/SC/SO207 - 2900898

### Accessories

Front adapters - FLK 50-PA/EZ-DR/KS/1600/YUC - 2321538



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: 16.0 m

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Front adapters - FLK 50-PA/EZ-DR/KS/1700/YUC - 2321541



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: 17.0 m

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Front adapters - FLK 50-PA/EZ-DR/KS/1800/YUC - 2321554



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: 18.0 m

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Front adapters - FLK 50-PA/EZ-DR/KS/1900/YUC - 2321567



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: 19.0 m

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Front adapters - FLK 50-PA/EZ-DR/KS/2000/YUC - 2314503



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: 20.0 m

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## Relay Module - UM-KS50/32MR/1/ADV151/SC/SO207 - 2900898

### Accessories

#### Front adapters - FLK 50-PA/EZ-DR/KS/2500/YUC - 2314516



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: 25.0 m

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#### Front adapters - FLK 50-PA/EZ-DR/KS/3000/YUC - 2314529



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: 30.0 m

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#### Front adapters - FLK 50-PA/EZ-DR/KS/5000/YUC - 2318981



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: 50.0 m

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#### Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 100/YUC - 2904739



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: 1.0 m

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#### Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 200/YUC - 2904740



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: 2.0 m

## Relay Module - UM-KS50/32MR/1/ADV151/SC/SO207 - 2900898

### Accessories

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



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

Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 400/YUC - 2904742



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: 4.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 500/YUC - 2904636



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: 5.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 600/YUC - 2904743



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: 6.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 700/YUC - 2904744



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: 7.0 m

## Relay Module - UM-KS50/32MR/1/ADV151/SC/SO207 - 2900898

### Accessories

Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 800/YUC - 2904745



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: 8.0 m

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Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 900/YUC - 2904746



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: 9.0 m

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Front adapters - FLK 50-PA/EZ-DR/HF/KS/1000/YUC - 2904637



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: 10.0 m

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Front adapters - FLK 50-PA/EZ-DR/HF/KS/1500/YUC - 2904638



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: 15.0 m

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Front adapters - FLK 50-PA/EZ-DR/HF/KS/2000/YUC - 2904487



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: 20.0 m

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## Relay Module - UM-KS50/32MR/1/ADV151/SC/SO207 - 2900898

### Accessories

Front adapters - FLK 50-PA/EZ-DR/HF/KS/2500/YUC - 2904639



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: 25.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/3000/YUC - 2904640



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: 30.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/3500/YUC - 2904641



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: 35.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/4000/YUC - 2904642



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: 40.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/4500/YUC - 2904643



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: 45.0 m

## Relay Module - UM-KS50/32MR/1/ADV151/SC/SO207 - 2900898

### Accessories

Front adapters - FLK 50-PA/EZ-DR/HF/KS/5000/YUC - 2904644



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: 50.0 m

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### Fuse

Fuse set - VF-SI/TR5/2AT - 2900996



Fuse set, number: 8 Pcs., fuse type: Fuse (TR5), nominal current: 2 A, tripping characteristic: slow-blow (T)

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Fuse set - VF-SI/TR5/1AT - 2901005



Fuse set, number: 8 Pcs., fuse type: Fuse (TR5), nominal current: 1 A, tripping characteristic: slow-blow (T)

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### System cable

Cable - FLK-MIL50/EZ-DR/KS/ 200/YCS - 2314590



Round cable set; controller: Yokogawa CS3000 CentumVP (ADV561, ADV161); connection 1: IDC/FLK socket strip (1x 50-position); connection 2: Yokogawa, KS compatible (1x 50-position); cable length: 2 m

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Cable - FLK-MIL50/EZ-DR/KS/ 300/YCS - 2314781



Assembled shielded round cable; controller: Yokogawa CS3000 CentumVP (ADV561, ADV161); connection 1: IDC/FLK socket strip (1x 50-position); connection 2: Yokogawa, KS compatible (1x 50-position); cable length: 3 m

## Relay Module - UM-KS50/32MR/1/ADV151/SC/SO207 - 2900898

### Accessories

Cable - FLK-MIL50/EZ-DR/KS/ 400/YCS - 2314794



Assembled shielded round cable; controller: Yokogawa CS3000 CentumVP (ADV561, ADV161); connection 1: IDC/FLK socket strip (1x 50-position); connection 2: Yokogawa, KS compatible (1x 50-position); cable length: 4 m

Cable - FLK-MIL50/EZ-DR/KS/1000/YCS - 2314804



Assembled shielded round cable; controller: Yokogawa CS3000 CentumVP (ADV561, ADV161); connection 1: IDC/FLK socket strip (1x 50-position); connection 2: Yokogawa, KS compatible (1x 50-position); cable length: 10 m

Cable - FLK-MIL50/EZ-DR/KS/1500/YCS - 2314817



Assembled shielded round cable; controller: Yokogawa CS3000 CentumVP (ADV561, ADV161); connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 15 m

Cable - FLK-MIL50/EZ-DR/KS/2000/YCS - 2314820



Assembled shielded round cable; controller: Yokogawa CS3000 CentumVP (ADV561, ADV161); connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 20 m

Cable - FLK-MIL50/EZ-DR/KS/3000/YCS - 2901018



Assembled shielded round cable; controller: Yokogawa CS3000 CentumVP (ADV561, ADV161); connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 30 m

## Relay Module - UM-KS50/32MR/1/ADV151/SC/SO207 - 2900898

### Accessories

Cable - FLK-MIL50/EZ-DR/KS/3500/YCS - 2901019



Assembled shielded round cable; controller: Yokogawa CS3000 CentumVP (ADV561, ADV161); connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 35 m

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Cable - FLK-MIL50/EZ-DR/KS/4000/YCS - 2901020



Assembled shielded round cable; controller: Yokogawa CS3000 CentumVP (ADV561, ADV161); connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 40 m

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Cable - FLK-MIL50/EZ-DR/KS/8000/YCS - 2321868



Assembled shielded round cable; controller: Yokogawa CS3000 CentumVP (ADV561, ADV161); connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 80 m

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