

## Relay Module - UM-2KS50-RM/16MR/24/SDV144/SO - 2901585


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16-channel VARIOFACE input relay module with screw connection and 50-pos. system connection, coil side is protected and non-isolated (optional), for Yokogawa SDV 144 cards, module width: 240 mm

RoHS

### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	5 pc
GTIN	 4 046356 612555
GTIN	4046356612555
Custom tariff number	85364900
Country of origin	Germany

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
Type of note	Notes on operation
Note	Voltage monitoring on the module does not work in combination with upstream HESILED fuse terminal blocks with integrated LED display.

#### Dimensions

Width	240 mm
Height	125.5 mm
Depth	76 mm

#### Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
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## Technical data

### Ambient conditions

Maximum altitude	≤ 2000 m
Degree of protection	IP00
	≥ IP54 (Installation location)

### Input data

Nominal input voltage $U_N$	24 V AC/DC (Supply, (P1+, P2+), pluggable fuse (IEC 60127-3/IV, 1AT))
Input voltage range in reference to $U_N$	0.9 ... 1.1
Typical input current at $U_N$	4 mA (± 10% per channel, pluggable fuse (IEC 60127-3/IV, 0.05AT))
Protective circuit/component	Damping diode
Type of protection	Reverse polarity protection
Protective circuit/component	Polarity protection diode
Operating voltage display	Green LED
Status display/channel	Red LED (fuse failure display)

### Output data

Contact type	1 N/O contact
Contact material	AgSnO, hard gold-plated
Maximum switching voltage	24 V AC/DC
Limiting continuous current	50 mA
Maximum inrush current	1 A (Supply 24 V DC/2 A, (P1+, P2+), pluggable fuse (IEC 60127-3/IV, 2AT))

### General

Mounting position	any
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### Connection data

Connection name	Supply
Connection method	Screw connection
Number of positions	6
Conductor cross section solid	0.34 mm <sup>2</sup> ... 2.5 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

# Relay Module - UM-2KS50-RM/16MR/24/SDV144/SO - 2901585

## Technical data

### Connection data 3

Connection name	Field level
Connection method	Screw connection
Number of connections	2
Number of positions	20
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 ProSafe-RS
- suitable I/O card	SDV144

### 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 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Classifications

### eCl@ss

eCl@ss 10.0.1	27141152
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

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## Classifications

### 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
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## Accessories

Accessories

Front adapter

## Relay Module - UM-2KS50-RM/16MR/24/SDV144/SO - 2901585

### Accessories

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-2KS50-RM/16MR/24/SDV144/SO - 2901585

### 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-2KS50-RM/16MR/24/SDV144/SO - 2901585

### 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-2KS50-RM/16MR/24/SDV144/SO - 2901585

### 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



## Relay Module - UM-2KS50-RM/16MR/24/SDV144/SO - 2901585

### 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-2KS50-RM/16MR/24/SDV144/SO - 2901585

### 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

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#### 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

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#### 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

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#### 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

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#### 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

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## Relay Module - UM-2KS50-RM/16MR/24/SDV144/SO - 2901585

### 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

## Relay Module - UM-2KS50-RM/16MR/24/SDV144/SO - 2901585

### 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

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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

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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

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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

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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

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## Relay Module - UM-2KS50-RM/16MR/24/SDV144/SO - 2901585

### 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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Fuse set - VF-SI/TR5/0,05AT - 2900999



Fuse set, number: 8 Pcs., fuse type: Fuse (TR5), nominal current: 0.05 A, tripping characteristic: slow-blow (T)