

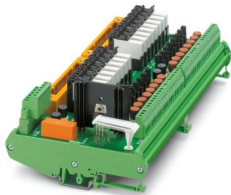
# UM-2KS50-RM/16MR/24/SDV144/SO - Relay module



2901585

<https://www.phoenixcontact.com/us/products/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

## Commercial data

Item number	2901585
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	CK2A9N
GTIN	4046356612555
Weight per piece (including packing)	678 g
Weight per piece (excluding packing)	650 g
Customs tariff number	85364900
Country of origin	DE

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



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## Technical data

### Product properties

Product type	Interface module
Data management status	
Article revision	05
Insulation characteristics: Air clearances and creepage distances	
Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

### Electrical properties

Air clearances and creepage distances	
Rated insulation voltage	63 V
Rated surge voltage	0.6 kV (1.2/50 µs)
Supported controller YOKOGAWA ProSafe-RS	
Suitable I/O card	SDV144

### 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
Input voltage range	21.6 V DC ... 26.4 V DC
Typical input current at $U_N$	4 mA ( $\pm 10\%$ per channel, pluggable fuse (IEC 60127-3/IV, 0.05AT))
Protective circuit	Freewheeling diode
	Reverse polarity protection; Polarity protection diode
Operating voltage display	Green LED
Status display/channel	Red LED (fuse failure display)

### Output data

Switching	
Contact switching 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))

### Connection data

Supply
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# UM-2KS50-RM/16MR/24/SDV144/SO - Relay module



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Connection method	Screw connection
Number of positions	6
Conductor cross section rigid	0.34 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

## Controller level

Connection method	Yokogawa KS-compatible
Number of connections	1
Number of positions	50
Tightening torque	0.5 Nm

## Field level

Connection method	Screw connection
Number of connections	2
Number of positions	20
Conductor cross section rigid	0.2 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

## Signaling

Status display present	Yes
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## Dimensions

Width	240 mm
Height	125.5 mm
Depth	76 mm

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

### Air clearances and creepage distances

Standards/regulations	EN IEC 60664-1
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## Mounting

Mounting type	DIN rail mounting
Mounting position	any

## Notes

Notes on operation	Voltage monitoring on the module does not work in combination
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	with upstream HESILED fuse terminal blocks with integrated LED display.
Notes on operation	For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.

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



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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2901585>



**EAC**

Approval ID: TR\_TS\_D\_00573\_c

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



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## Classifications

### ECLASS

ECLASS-11.0	27141152
ECLASS-12.0	27141152
ECLASS-13.0	27141152

### ETIM

ETIM 9.0	EC002780
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### UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	81ff2191-9362-405c-a2bb-ff3256abae01

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



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## Accessories

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

2900991

<https://www.phoenixcontact.com/us/products/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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### FLK 50-PA/EZ-DR/KS/ 200/YUC - Front adapter

2314299

<https://www.phoenixcontact.com/us/products/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



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



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

2314309

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/KS/ 400/YUC - Front adapter

2314312

<https://www.phoenixcontact.com/us/products/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

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



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

2321499

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/KS/ 600/YUC - Front adapter

2314927

<https://www.phoenixcontact.com/us/products/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

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



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## FLK 50-PA/EZ-DR/KS/ 700/YUC - Front adapter

2321509

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/KS/ 800/YUC - Front adapter

2314930

<https://www.phoenixcontact.com/us/products/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

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



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## FLK 50-PA/EZ-DR/KS/ 900/YUC - Front adapter

2321512

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/KS/1000/YUC - Front adapter

2314325

<https://www.phoenixcontact.com/us/products/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

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



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## FLK 50-PA/EZ-DR/KS/1100/YUC - Front adapter

2321389

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/KS/1200/YUC - Front adapter

2321525

<https://www.phoenixcontact.com/us/products/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

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



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<https://www.phoenixcontact.com/us/products/2901585>

## FLK 50-PA/EZ-DR/KS/1300/YUC - Front adapter

2321392

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/KS/1400/YUC - Front adapter

2321402

<https://www.phoenixcontact.com/us/products/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

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



2901585

<https://www.phoenixcontact.com/us/products/2901585>

## FLK 50-PA/EZ-DR/KS/1500/YUC - Front adapter

2314338

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/KS/1600/YUC - Front adapter

2321538

<https://www.phoenixcontact.com/us/products/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

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



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<https://www.phoenixcontact.com/us/products/2901585>

## FLK 50-PA/EZ-DR/KS/1700/YUC - Front adapter

2321541

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/KS/1800/YUC - Front adapter

2321554

<https://www.phoenixcontact.com/us/products/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



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



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<https://www.phoenixcontact.com/us/products/2901585>

## FLK 50-PA/EZ-DR/KS/1900/YUC - Front adapter

2321567

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/KS/2000/YUC - Front adapter

2314503

<https://www.phoenixcontact.com/us/products/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

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



2901585

<https://www.phoenixcontact.com/us/products/2901585>

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

2314516

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/KS/3000/YUC - Front adapter

2314529

<https://www.phoenixcontact.com/us/products/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

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



2901585

<https://www.phoenixcontact.com/us/products/2901585>

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

2318981

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/HF/KS/ 100/YUC - Front adapter

2904739

<https://www.phoenixcontact.com/us/products/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

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



2901585

<https://www.phoenixcontact.com/us/products/2901585>

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

2904740

<https://www.phoenixcontact.com/us/products/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

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

2904741

<https://www.phoenixcontact.com/us/products/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

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



2901585

<https://www.phoenixcontact.com/us/products/2901585>

## FLK 50-PA/EZ-DR/HF/KS/ 400/YUC - Front adapter

2904742

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/HF/KS/ 500/YUC - Front adapter

2904636

<https://www.phoenixcontact.com/us/products/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

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



2901585

<https://www.phoenixcontact.com/us/products/2901585>

## FLK 50-PA/EZ-DR/HF/KS/ 600/YUC - Front adapter

2904743

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/HF/KS/ 700/YUC - Front adapter

2904744

<https://www.phoenixcontact.com/us/products/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

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



2901585

<https://www.phoenixcontact.com/us/products/2901585>

## FLK 50-PA/EZ-DR/HF/KS/ 800/YUC - Front adapter

2904745

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/HF/KS/ 900/YUC - Front adapter

2904746

<https://www.phoenixcontact.com/us/products/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

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



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## FLK 50-PA/EZ-DR/HF/KS/1000/YUC - Front adapter

2904637

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/HF/KS/1500/YUC - Front adapter

2904638

<https://www.phoenixcontact.com/us/products/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



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



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## FLK 50-PA/EZ-DR/HF/KS/2000/YUC - Front adapter

2904487

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/HF/KS/2500/YUC - Front adapter

2904639

<https://www.phoenixcontact.com/us/products/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

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



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## FLK 50-PA/EZ-DR/HF/KS/3000/YUC - Front adapter

2904640

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/HF/KS/3500/YUC - Front adapter

2904641

<https://www.phoenixcontact.com/us/products/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

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



2901585

<https://www.phoenixcontact.com/us/products/2901585>

## FLK 50-PA/EZ-DR/HF/KS/4000/YUC - Front adapter

2904642

<https://www.phoenixcontact.com/us/products/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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## FLK 50-PA/EZ-DR/HF/KS/4500/YUC - Front adapter

2904643

<https://www.phoenixcontact.com/us/products/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

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

2901585

<https://www.phoenixcontact.com/us/products/2901585>



## FLK 50-PA/EZ-DR/HF/KS/5000/YUC - Front adapter

2904644

<https://www.phoenixcontact.com/us/products/2904644>

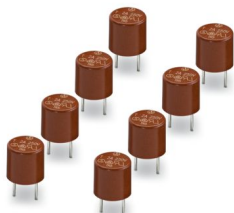


Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 50.0 m

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

2900996

<https://www.phoenixcontact.com/us/products/2900996>



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

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



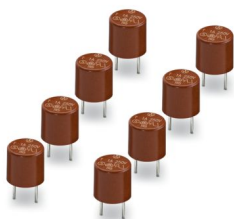
2901585

<https://www.phoenixcontact.com/us/products/2901585>

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

2901005

<https://www.phoenixcontact.com/us/products/2901005>



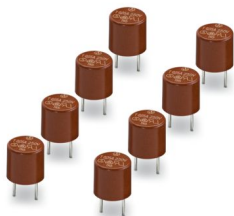
Fuse set, number: 8 Pcs., fuse type: Fuse (TR5), nominal current: 1 A, tripping characteristic: slow-blow (T)

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

2900999

<https://www.phoenixcontact.com/us/products/2900999>



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

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