PHŒNIX CONTACT

Active module - UM-2KS50/32RM/MR/21/SPT/CS/C-L - 2968535

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32-channel relay module for YOKOGAWA ADV 551 and ADV 561 digital output modules. Redundant system connection, spring-cage connection on the field side. Pluggable relays with status indicator (LED) per channel.

The figure shows a version
UM-2KS50/32RM/MR/21/SPT/CS

Key commercial data

Packing unit	1 pc
GTIN	4 046356 350662
Weight per Piece (excluding packing)	1310.0 g
Custom tariff number	85369010
Country of origin	Germany
Note	Made to Order (non-returnable)

Technical data

Dimensions

Width	506 mm
Height	126 mm
Depth	64 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Input data

Nominal input voltage U_N	24 V DC ±10 %
Typical input current at U_N	9 mA
Typical response time	5 ms
Typical release time	7 ms
Protective circuit/component	Damping diode
	Damping diode

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Technical data

Input data

	Fuse
Operating voltage display	Green LED
Status display/channel	Yellow LED

Output data

Contact type	Single contact, 1-PDT
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	4 A (see derating curve)
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	96 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 110 V DC)
	23 W (at 220 V DC)
	1000 VA (for 250 V AC)

General

Mechanical service life	Approx. 2×10^7 cycles
Operating mode	100% operating factor
Mounting position	any
Assembly instructions	In rows with zero spacing
Standards/regulations	DIN EN 50178
Rated surge voltage	4 kV (Basic insulation between output contact current paths)
	6 kV (Safe isolation and reinforced insulation between input circuit and output contact paths)
Pollution degree	2
Surge voltage category	III

Connection data for connection 1

Connection name	Field level
Connection method	Spring-cage connection
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

Connection data for connection 2

Connection name	Controller level
Number of connections	2
Connection method	Yokogawa KS-compatible

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Technical data

Connection data for connection 2

Number of positions	50

Supported controller

Corresponding control	YOKOGAWA CENTUM CS3000R3
Corresponding I/O card	ADV551
	ADV561
Corresponding control	YOKOGAWA STARDOM
Corresponding I/O card	NFDV551
	NFDV561

Classifications

eCl@ss

eCl@ss 4.0	27371001
eCl@ss 4.1	27371001
eCl@ss 5.0	27371001
eCl@ss 5.1	27250313
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001

ETIM

ETIM 2.0	EC001437
ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC001437

UNSPSC

UNSPSC 6.01	30211824
UNSPSC 7.0901	39121421
UNSPSC 11	39121421
UNSPSC 12.01	39121421
UNSPSC 13.2	39121421

Accessories

Accessories

System cable

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Accessories

Cable - FLK 50-PA/EZ-DR/KS/ 100/YUC - 2900991

Assembled round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 1.0 m.

Cable - FLK 50-PA/EZ-DR/KS/ 200/YUC - 2314299

Round cable set, with two 50-pos. molded socket strips (1:1 connection). Length of cable: 2.0 m

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Cable - FLK 50-PA/EZ-DR/KS/ 300/YUC - 2314309

Round cable set, with two 50-pos. molded socket strips (1:1 connection). Length of cable: 3.0 m

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Cable - FLK 50-PA/EZ-DR/KS/ 400/YUC - 2314312

Round cable set, with two 50-pos. molded socket strips (1:1 connection). Length of cable: 4.0 m

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Cable - FLK 50-PA/EZ-DR/KS/ 500/YUC - 2321499

Assembled round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 5.0 m

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Accessories

Cable - FLK 50-PA/EZ-DR/KS/ 600/YUC - 2314927

Assembled round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 6.0 m

Cable - FLK 50-PA/EZ-DR/KS/ 700/YUC - 2321509

Assembled round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 7.0 m

Cable - FLK 50-PA/EZ-DR/KS/ 800/YUC - 2314930

Assembled round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 8.0 m

Cable - FLK 50-PA/EZ-DR/KS/ 900/YUC - 2321512

Assembled round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 9.0 m

Cable - FLK 50-PA/EZ-DR/KS/1000/YUC - 2314325

Round cable set, with two 50-pos. molded socket strips (1:1 connection). Length of cable: 10.0 m

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Accessories

Cable - FLK 50-PA/EZ-DR/KS/1100/YUC - 2321389

Assembled round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 11.0 m

Cable - FLK 50-PA/EZ-DR/KS/1200/YUC - 2321525

Assembled round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 12.0 m

Cable - FLK 50-PA/EZ-DR/KS/1300/YUC - 2321392

Assembled round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 13.0 m

Cable - FLK 50-PA/EZ-DR/KS/1400/YUC - 2321402

Assembled round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 14.0 m

Cable - FLK 50-PA/EZ-DR/KS/1500/YUC - 2314338

Round cable set, with two 50-pos. molded socket strips (1:1 connection). Length of cable: 15.0 m

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Accessories

Cable - FLK 50-PA/EZ-DR/KS/1600/YUC - 2321538

Assembled round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 16.0 m

Cable - FLK 50-PA/EZ-DR/KS/1700/YUC - 2321541

Assembled round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 17.0 m

Cable - FLK 50-PA/EZ-DR/KS/1800/YUC - 2321554

Assembled round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 18.0 m

Cable - FLK 50-PA/EZ-DR/KS/1900/YUC - 2321567

Assembled round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 19.0 m

Cable - FLK 50-PA/EZ-DR/KS/2000/YUC - 2314503

Round cable set, with two 50-pos. molded socket strips (1:1 connection). Length of cable: 20.0 m

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Cable - FLK 50-PA/EZ-DR/KS/2500/YUC - 2314516

Round cable set, with two 50-pos. molded socket strips (1:1 connection). Length of cable: 25.0 m

Cable - FLK 50-PA/EZ-DR/KS/3000/YUC - 2314529

Round cable set, with two 50-pos. molded socket strips (1:1 connection). Length of cable: 30.0 m

Cable - FLK 50-PA/EZ-DR/KS/5000/YUC - 2318981

Assembled round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 50.0 m

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

Assembled round cable with two 50-pos. socket strips (1:1 connection). The connector for module side is molded.
The cable is suitable for the ADV561 and ADV161 boards.
Cable length: 2.0 m

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

Assembled round cable with two 50-pos. socket strips (1:1 connection). The connector for module side is molded.
The cable is suitable for the ADV561 and ADV161 boards.
Cable length: 3.0 m

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

Assembled round cable with two 50-pos. socket strips (1:1 connection). The connector for module side is molded.
The cable is suitable for the ADV561 and ADV161 boards.
Cable length: 4.0 m

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

Assembled round cable with two 50-pos. socket strips (1:1 connection). The connector for module side is molded.
The cable is suitable for the ADV561 and ADV161 boards.
Cable length: 10.0 m

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

Assembled round cable with two 50-pos. socket strips (1:1 connection). The connector for module side is molded.
The cable is suitable for the ADV561 and ADV161 boards.
Cable length: 15.0 m

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

Assembled round cable with two 50-pos. socket strips (1:1 connection). The connector for module side is molded.
The cable is suitable for the ADV561 and ADV161 boards.
Cable length: 20.0 m

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

Assembled round cable with two 50-pos. socket strips (1:1 connection). The connector on the module side is molded.
The cable is suitable for ADV561 and ADV161 cards. Cable length: 30.0 m

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

Assembled round cable with two 50-pos. socket strips (1:1 connection). The connector on the module side is molded. The cable is suitable for ADV561 and ADV161 cards. Cable length: 35.0 m

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

Assembled round cable with two 50-pos. socket strips (1:1 connection). The connector on the module side is molded. The cable is suitable for ADV561 and ADV161 cards. Cable length: 40.0 m

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

Assembled round cable with two 50-pos. socket strips (1:1 connection). The connector on the module side is molded. The cable is suitable for ADV561 and ADV161 cards. Cable length: 80.0 m

Cable - FLK 50-PA/EZ-DR/HF/KS/ 100/YUC - 2904739

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 1 m

Cable - FLK 50-PA/EZ-DR/HF/KS/ 200/YUC - 2904740

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 2 m

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

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 3 m

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

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 4 m

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

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 5 m

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

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 60 m

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

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 7 m

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

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 8 m

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

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 9 m

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

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 10 m

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

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 15 m

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

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 20 m

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

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 25 m

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

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 30 m

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

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 35 m

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

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 40 m

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

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 45 m

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Accessories
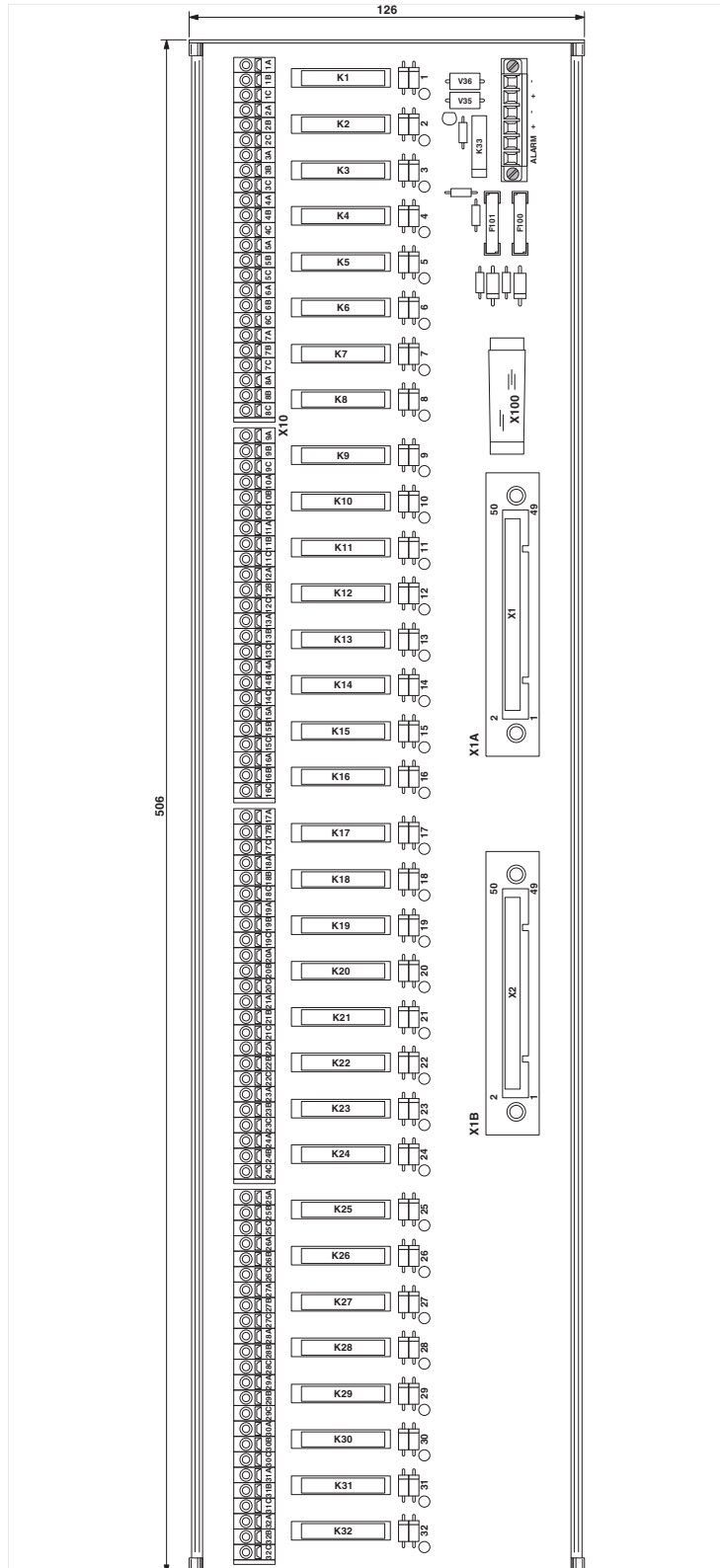
Cable - FLK 50-PA/EZ-DR/HF/KS/5000/YUC - 2904644

Assembled halogen-free round cable with two molded 50-pos. socket strips (1:1 connection). Cable length: 50 m

Drawings

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Active module - UM-2KS50/32RM/MR/21/SPT/CS/C-L - 2968535

Dimensioned drawing

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Active module - UM-2KS50/32RM/MR/21/SPT/CS/C-L - 2968535

Circuit diagram