PHŒNIX CONTACT

Active module - UM-2KS50RM/32MR/SI/1/551/Z/MT - 2968551

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VARIOFACE output module, 32 channels for Yokogawa ADV 551, ADV 561 output modules.

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356418492

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
Type of note	Notes on operation
Note	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
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).
Type of note	Notes on operation
Note	At least one functional insulation against adjacent modules is complied with (in the support rail direction). If the application has stricter requirements for the insulation (basic insulation or reinforced insulation), they must be realized by applying suitable measures (e. g. partition plates).

Dimensions

Width	419.5 mm
Height	127.5 mm
Depth	57 mm

Ambient conditions

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Ambient conditions

Ambient temperature (operation)	-15 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Maximum altitude	$\leq$ 2000 m
Degree of protection	IP00
	$\geq$ IP54 (Installation location)

Input data

Nominal input voltage U_N	24 V DC ±10 %
Input voltage range in reference to U_N	0.9 ... 1.1
Typical input current at U_N	9 mA (K1 – K32)
Typical response time	5 ms (K1 – K32)
	5 ms (K33)
Typical release time	7 ms (K1 – K32)
	5 ms (K33)
Operating voltage display	Green LED

Output data

Contact type	1 PDT
Contact material	$AgSnO_2$
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	2.8 A (observe derating)
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	67 W (24 V DC)
	20 W (48 V DC)
	18 W (60 V DC)
	23 W (110 V DC)
	40 W (220 V DC)
	700 VA (250 V AC)
Output fuse	4 A (per channel)

General

No. of channels	32
Mechanical service life	approx. 2x 10^7 cycles
Operating mode	100% operating factor
Mounting position	any
Assembly instructions	In rows with zero spacing

Connection data

Connection name	Field level
Connection method	Spring-cage connection with disconnect knife
Number of connections	1
Conductor cross section solid	0.2 mm² ... 4 mm²

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Technical data

Connection data

Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

Connection data 2

Connection name	Controller level
Connection method	Yokogawa KS-compatible
Number of connections	2
Number of positions	50
Note	Usable system cables: Phoenix Contact YUC50, Yokogawa AKB331
Torque	0.5 Nm

Supported controller

Controller	YOKOGAWA CS3000 CentumVP
- suitable I/O card	ADV551
	ADV561
Controller	YOKOGAWA STARDOM
- suitable I/O card	NFDV551
	NFDV561

Standards and Regulations

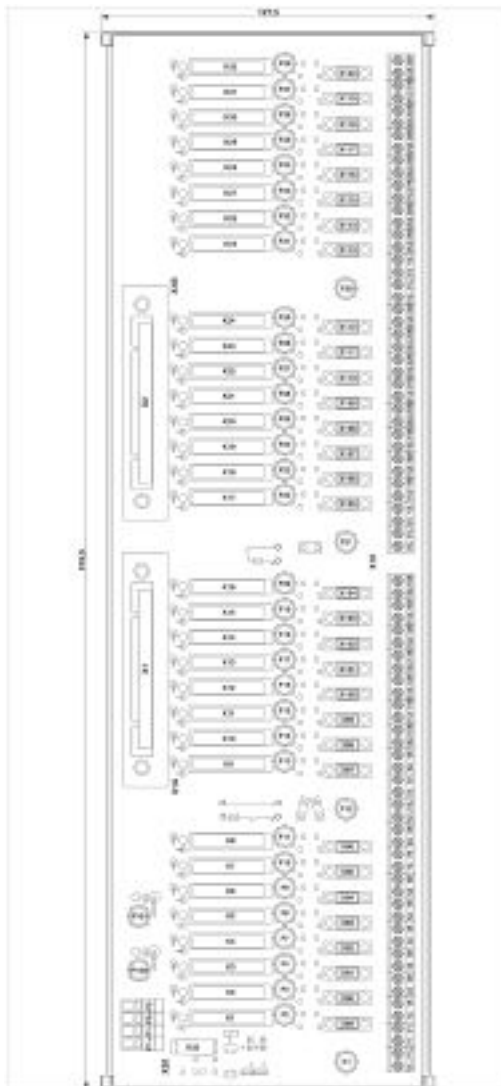|	
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated insulation voltage	250 V AC
Rated surge voltage	4 kV (Safe isolation, reinforced insulation, and 6 kV between input circuit and output contact current paths)
Insulation	Basic insulation
Pollution degree	2
Overvoltage category	III

Environmental Product Compliance

REACh SVHC	Cadmium oxide 1306-19-0
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

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Dimensional drawing

The figure shows a version with a screw connection

Circuit diagram

Classifications

eCl@ss

eCl@ss 10.0.1	27141152
eCl@ss 4.0	27250300
eCl@ss 4.1	27250300
eCl@ss 5.0	27250300
eCl@ss 5.1	27250300
eCl@ss 6.0	27242600
eCl@ss 7.0	27141152
eCl@ss 8.0	27141152

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Classifications

eCl@ss

eCl@ss 9.0	27141152

ETIM

ETIM 5.0	EC002780
ETIM 6.0	EC002780
ETIM 7.0	EC002780

UNSPSC

UNSPSC 6.01	30211824
UNSPSC 7.0901	39121421
UNSPSC 11	39121421
UNSPSC 12.01	39121421
UNSPSC 13.2	39121432
UNSPSC 18.0	39121432
UNSPSC 19.0	39121432
UNSPSC 20.0	39121432
UNSPSC 21.0	39121432

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC	EAC	RU*DE*08.B.01841/19

Accessories

Accessories

Front adapter

Active module - UM-2KS50RM/32MR/SI/1/551/Z/MT - 2968551

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

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

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

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

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

Active module - UM-2KS50RM/32MR/SI/1/551/Z/MT - 2968551

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

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

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

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

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

Active module - UM-2KS50RM/32MR/SI/1/551/Z/MT - 2968551

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

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

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

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

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

Active module - UM-2KS50RM/32MR/SI/1/551/Z/MT - 2968551

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

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

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

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

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

Active module - UM-2KS50RM/32MR/SI/1/551/Z/MT - 2968551

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

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

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

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

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

Active module - UM-2KS50RM/32MR/SI/1/551/Z/MT - 2968551

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

Active module - UM-2KS50RM/32MR/SI/1/551/Z/MT - 2968551

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

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

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

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

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

Active module - UM-2KS50RM/32MR/SI/1/551/Z/MT - 2968551

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

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Active module - UM-2KS50RM/32MR/SI/1/551/Z/MT - 2968551

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

Fuse

Fuse set - VF-SI/TR5/4AT - 2900998

Fuse set, number: 8 Pcs., fuse type: Fuse (TR5), nominal current: 4 A, tripping characteristic: slow-blow (T)

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)

Fuse set - VF-SI/TR5/8AT - 2901006

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

Single relay

Single relay - REL-MR- 24DC/21 - 2961105

Plug-in miniature power relay, with power contact, 1 PDT, input voltage 24 V DC

System cable

Active module - UM-2KS50RM/32MR/SI/1/551/Z/MT - 2968551

Accessories

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

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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

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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

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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

Active module - UM-2KS50RM/32MR/SI/1/551/Z/MT - 2968551

Accessories

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

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

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

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

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
http://www.phoenixcontact.com

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