

# UM-2KS50/4FLK14/YCS - Passive module

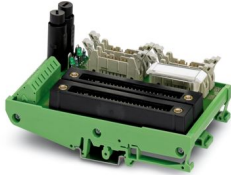


2311166

<https://www.phoenixcontact.com/us/products/2311166>

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32-channel digital input/output module with redundant voltage supply. Suitable for the Yokogawa ADV 151, ADV 161, ADV 551 and ADV 561 cards.



## Commercial data

Item number	2311166
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK218N
GTIN	4046356159739
Weight per piece (including packing)	231.6 g
Weight per piece (excluding packing)	231.6 g
Customs tariff number	85366990
Country of origin	DE

## Technical data

### Product properties

Product type	Interface module
No. of channels	32

#### Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

### Electrical properties

Operating voltage range	19.2 V DC ... 26.4 V DC
Fuse	1 A 5x20 (fast-blow) (F1, F2)
Current (per branch)	≤ 1 A

#### Air clearances and creepage distances

Rated insulation voltage	50 V
Rated surge voltage	0.5 kV (1.2/50 μs)

#### Supported controller: YOKOGAWA CS3000 CentumVP

Suitable I/O card	ADV151
	ADV161
	ADV551
	ADV561

#### Supported controller: YOKOGAWA STARDOM

Suitable I/O card	NFDV151
	NFDV161
	NFDV551
	NFDV561

### Connection data

#### Connection 1 (control level)

Connection method	Yokogawa, KS compatible
Number of connections	2
Number of positions	50
Note	Usable system cables: Phoenix Contact YUC50, Yokogawa AKB331
Tightening torque	0.5 Nm
Pitch	2.54 mm

#### Connection 2 (field level)

Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK pin strip

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Number of connections	4
Number of positions	14
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

## Connection 3 (supply)

Connection method	Spring-cage connection
Stripping length	7 mm
Number of positions	8
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule without plastic sleeve) 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve)
Conductor cross-section AWG	24 ... 14
Pitch	5 mm

## Signaling

Status display present	yes, for power supply
Operating voltage display	Green LED

## Dimensions

### Item dimensions

Width	76.4 mm
Height	127.5 mm
Depth	60.5 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection (Module)	IP00
Degree of protection (Installation location)	≤ IP54
Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Altitude	≤ 2000 m

## Approvals

### UKCA

Certificate	UKCA-compliant
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## Standards and regulations

### Air clearances and creepage distances

Standards/regulations	EN IEC 60664-1
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## Mounting

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Mounting type	DIN rail mounting
Mounting position	any

## Notes

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.
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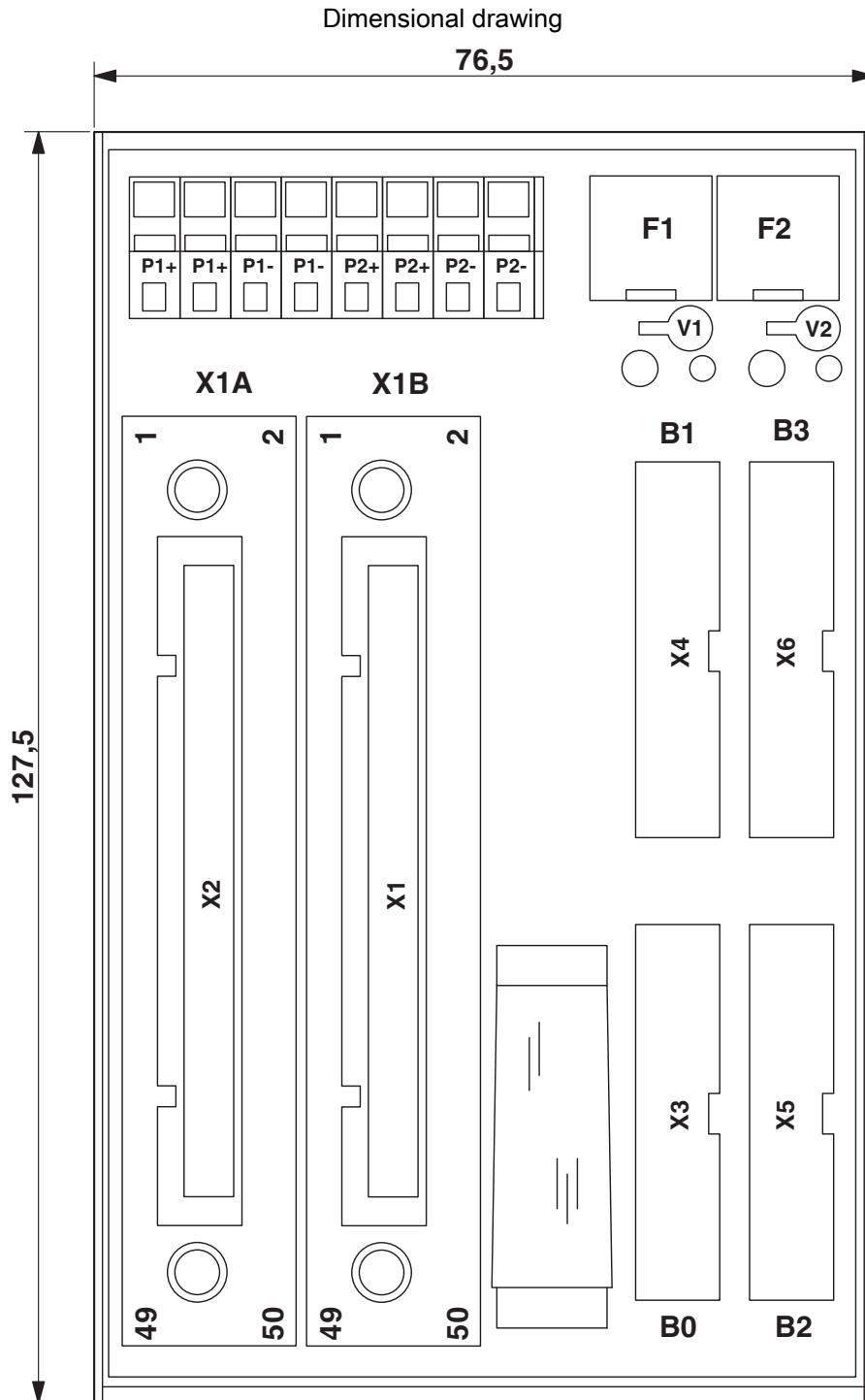
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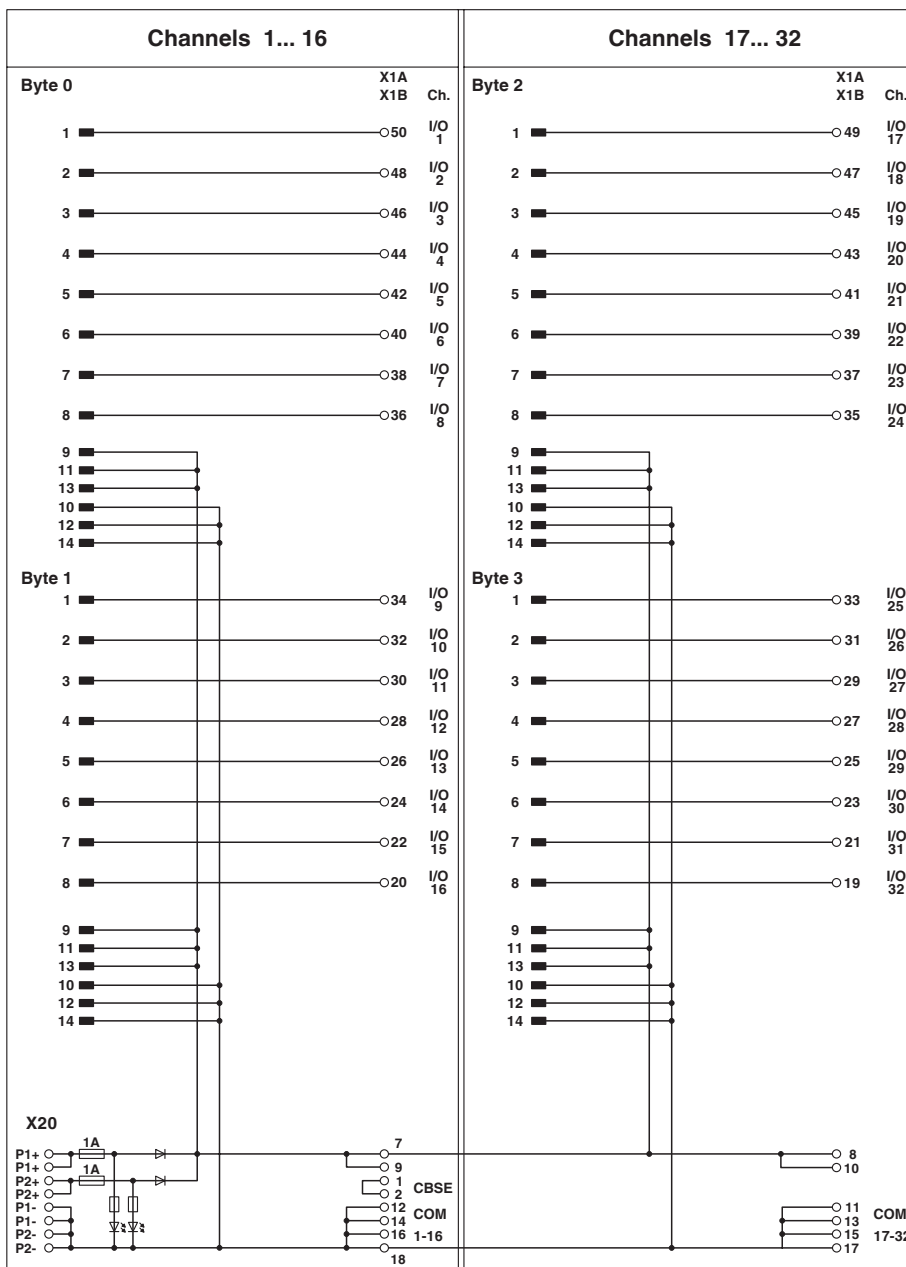
## Drawings



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## Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2311166>



**EAC**

Approval ID: RU\*-DE.\*08.B.01829\*

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## Classifications

### ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

### ETIM

ETIM 10.0	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	7(a)

### 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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	efd2fe75-f00f-4f4b-9550-23d72311b27b

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