

FLKMS-2KS40/BFI/AIO16/Z/YCS - Passive module



2901419

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VARIOFACE interface module for analog input modules, 1:1 connection, spring-cage connection, redundant connector. Suitable for Yokogawa CENTUM CS3000 AAI141, AAI841 cards.



Commercial data

Item number	2901419
Packing unit	1 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Product key	DK218N
GTIN	4046356590655
Weight per piece (including packing)	382.7 g
Weight per piece (excluding packing)	169.96 g
Country of origin	DE

Technical data

Product properties

Product type	Interface module
No. of channels	16
Operating mode	100% operating factor

Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

Electrical properties

Operating voltage (DC)	24 V DC
Operating voltage range	19.2 V DC ... 30 V DC
Current (Per path)	≤ 100 mA (protected by PTC or slow-blow fuse 100 mA, observe derating)
Current (Total current)	≤ 1.6 A (Protected by slow-blow fuse 2 A, 5x20 (short-circuit protection only))

Air clearances and creepage distances

Rated insulation voltage	50 V DC
Rated surge voltage	0.5 kV

Supported controller: YOKOGAWA CS3000 CentumVP

Suitable I/O card	AAI141
	AAI841

Supported controller: YOKOGAWA STARDOM

Suitable I/O card	NFAI141
	NFAI841

Output data

K1 (alarm)

Contact switching type	Double contact, 1 N/O contact
Contact material	AgNi, 5 µm hard gold-plated
Maximum switching voltage	48 V DC
	≤ 25 V AC
Limiting continuous current	1 A
Min. switching current	1 mA
Interrupting rating (ohmic load) max.	24 W (24 V DC)
	48 W (48 V DC)
	25 VA (25 V AC)
Mechanical service life	approx. 2×10^7 cycles

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Connection data

Field level

Connection method	Spring-cage connection
Conductor cross-section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross-section AWG	24 ... 14

Field level

Connection method	COMBICON
Conductor cross-section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 12

Controller level

Connection method	Yokogawa, KS compatible
Number of connections	2
Number of positions	40
Tightening torque	0.5 Nm

Signaling

Status display present	yes, if the fuse fails
Operating voltage display	Green LED

Dimensions

Item dimensions

Width	151.77 mm
Height	127.5 mm
Depth	61.9 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
Assembly note	in rows with zero spacing

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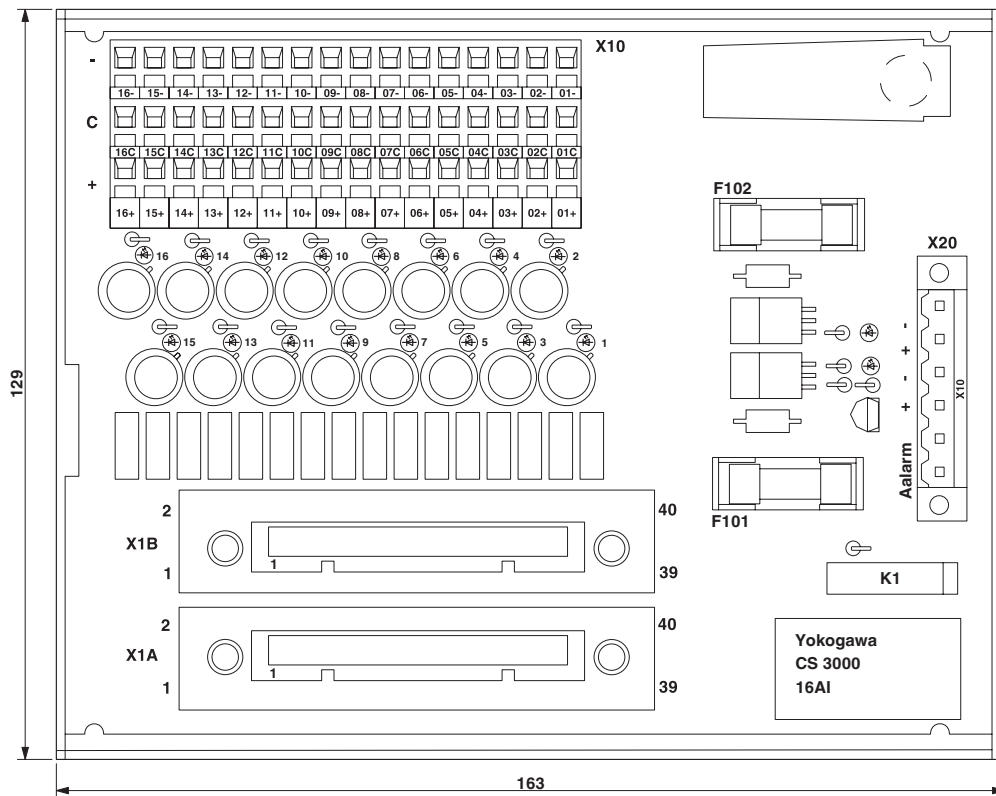
Mounting position	any
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Notes

Notes on operation	No additional touch protection is required when using a SELV/PELV voltage (≤ 25 V AC or 60 V DC).
Notes on operation	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).
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.

Drawings

Dimensional drawing



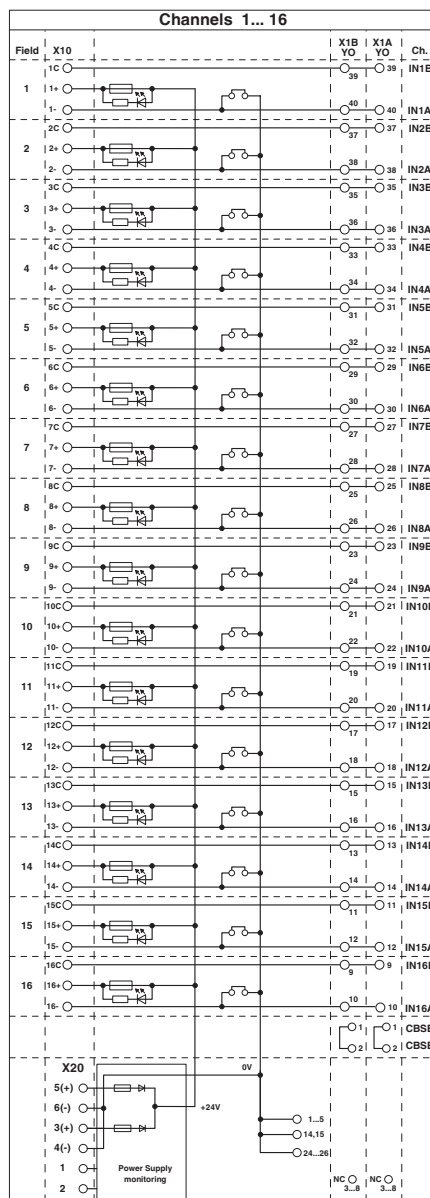
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Circuit diagram



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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	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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)

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