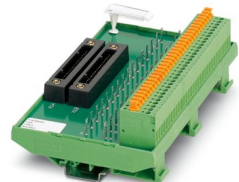


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1:1 interface module for Yokogawa AAI 141, AAI 143, AAV 141, AAV 142, AAI 543, AAV 542, AAI 841 and AAB 841 analog I/O modules. Redundant system connection, screw connections with knife disconnection on the field side.

Commercial data

Item number	2321981
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK218N
GTIN	4046356450270
Weight per piece (including packing)	477.96 g
Weight per piece (excluding packing)	470.2 g
Customs tariff number	85369010
Country of origin	DE

FLKM-2KS40/PMT/ST/YCS - Passive module



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Technical data

Product properties

Product type	Interface module
No. of channels	8
	12
	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)	≤ 50 V DC
Current (per branch)	≤ 1 A

Air clearances and creepage distances

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

Supported controller YOKOGAWA CS3000 CentumVP

Suitable I/O card	AAI543
	AAI141
	AAI143
	AAI841
	AAV141
	AAV142
	AAB841
	AAV542

Supported controller YOKOGAWA STARDOM

Suitable I/O card	NFAI141
	NFAI143
	NFAI543
	NFAI841
	NFAB841
	NFAV542
	NFAV141
	NFAV142

Connection data

Connection 1 (control level)

Connection method	Yokogawa, KS compatible
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FLKM-2KS40/PMT/ST/YCS - Passive module



2321981

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Number of connections	2
Number of positions	40
Note	Usable system cables: Phoenix Contact YUC40, Yokogawa KS1
Tightening torque	0.5 Nm
Pitch	2.54 mm

Connection 2 (field level)

Connection method	Screw connection with disconnect knife
Stripping length	8 mm
Screw thread	M3
Number of positions	32
Conductor cross-section rigid	0.2 mm ² ... 4 mm ²
Conductor cross-section rigid (2 conductors with same cross section)	0.2 mm ² ... 1 mm ²
Conductor cross-section flexible	0.2 mm ² ... 4 mm ²
	0.25 mm ² ... 1.5 mm ² (Ferrule without plastic sleeve)
	0.25 mm ² ... 1.5 mm ² (Ferrule with plastic sleeve)
Conductor cross-section flexible (2 conductors with same cross section)	0.2 mm ² ... 1 mm ²
	0.25 mm ² ... 0.75 mm ² (Ferrule without plastic sleeve)
	0.5 mm ² ... 1 mm ² (TWIN ferrule with plastic sleeve)
Conductor cross-section AWG	24 ... 12
Tightening torque	0.5 Nm ... 0.6 Nm
Pitch	5.08 mm

Signaling

Status display present	no
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Dimensions

Item dimensions

Width	180.1 mm
Height	111.8 mm
Depth	55.4 mm

Environmental and real-life conditions

Ambient conditions

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

Approvals

UKCA

Certificate	UKCA-compliant
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FLKM-2KS40/PMT/ST/YCS - Passive module



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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	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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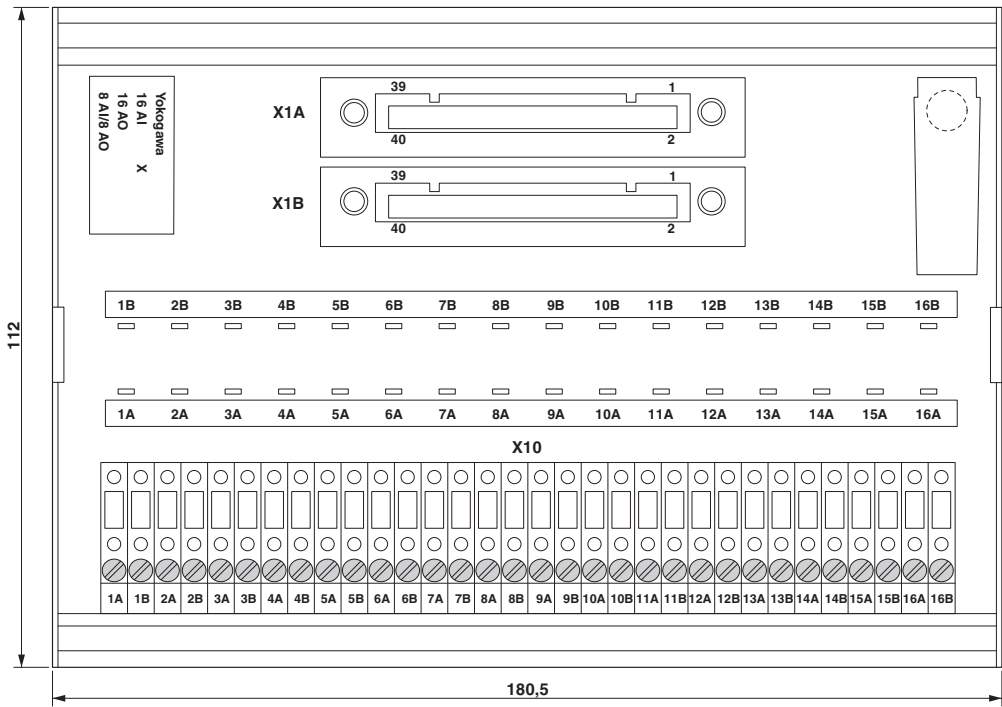


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Drawings

Dimensional drawing



Connection to AAV 141 / AAV 142 / AAV 542 / AAI 543

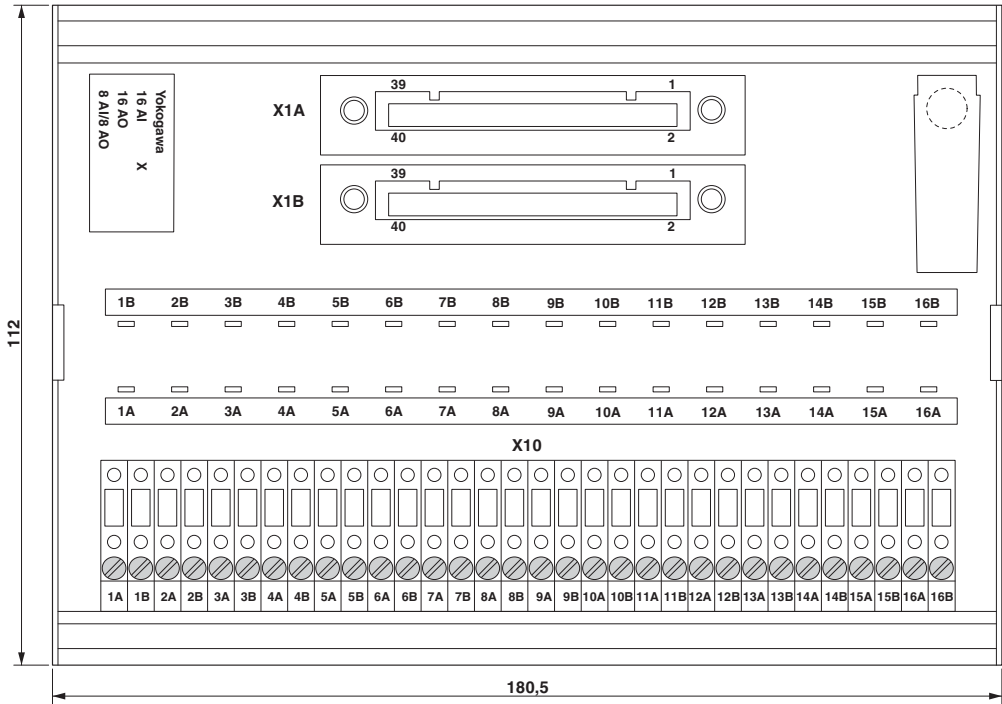
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Dimensional drawing



Connection to AAI 141 / AAI 143

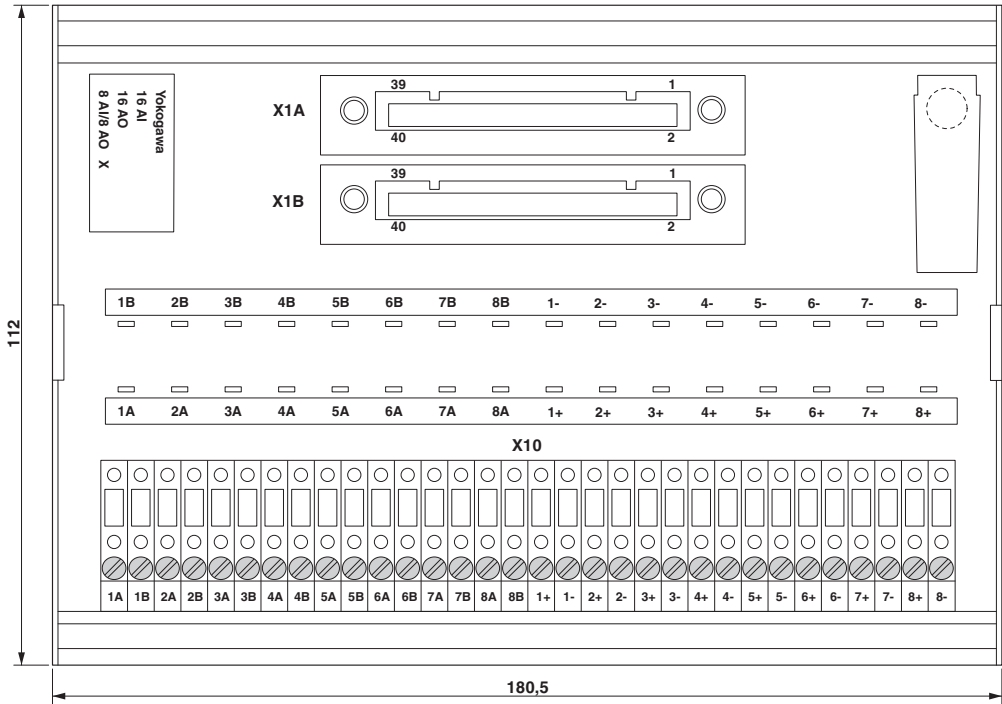
FLKM-2KS40/PMT/ST/YCS - Passive module



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Dimensional drawing



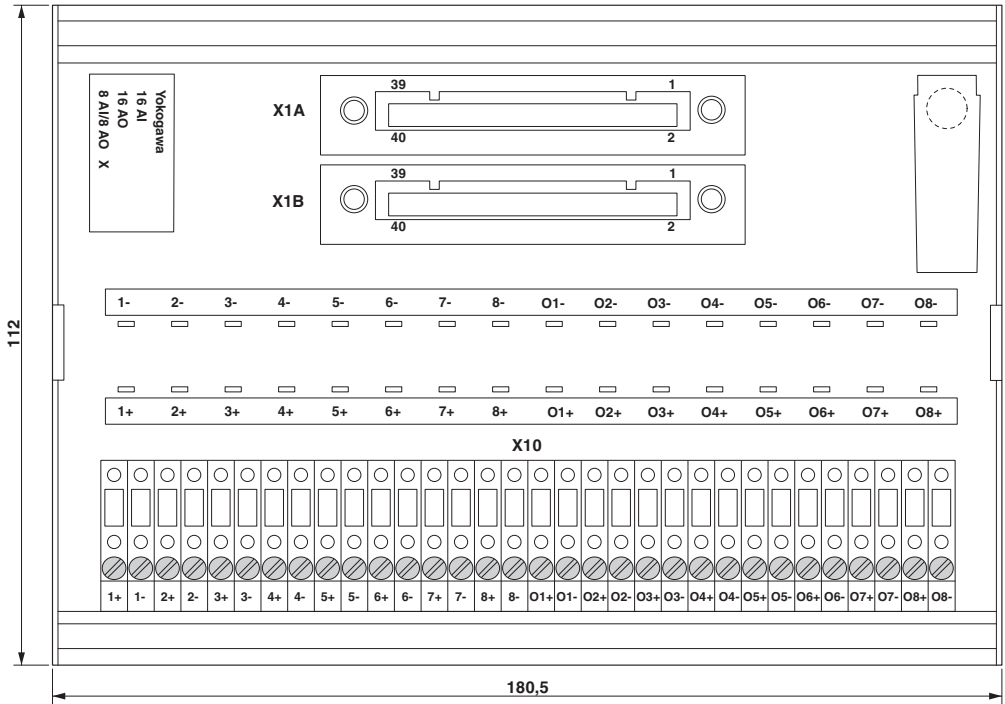
Connection to AAI 841

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Dimensional drawing



Connection to AAB 841

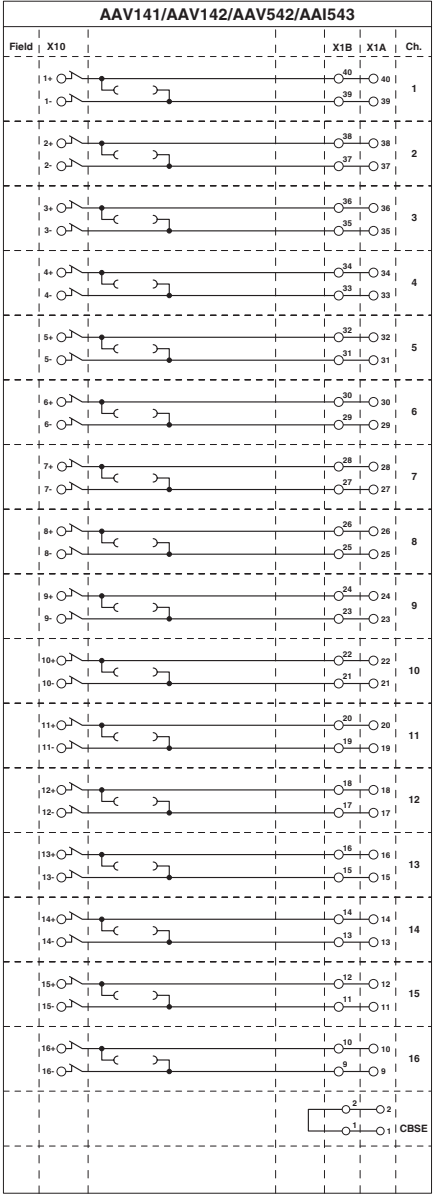
FLKM-2KS40/PMT/ST/YCS - Passive module



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Circuit diagram



Connection to AAV 141 / AAV 142 / AAV 542 / AAI 543

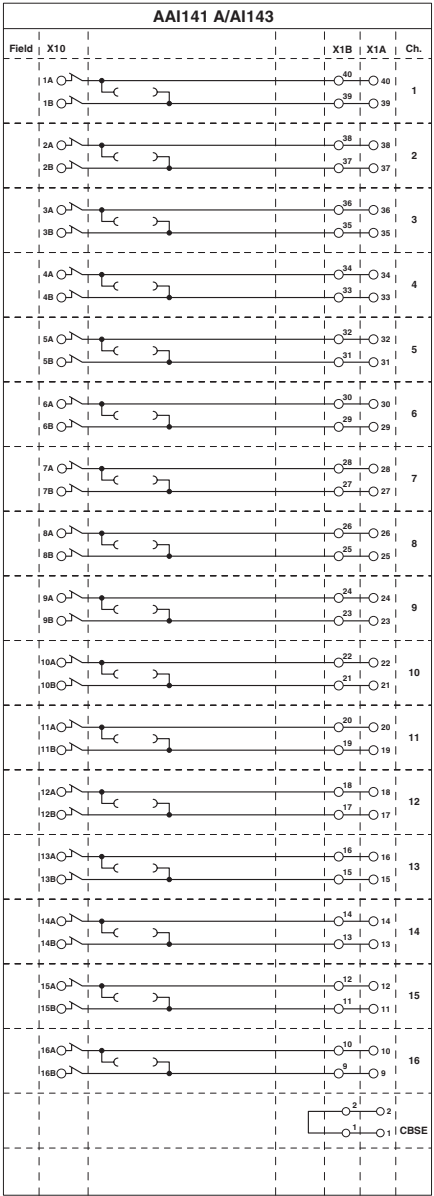
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Circuit diagram



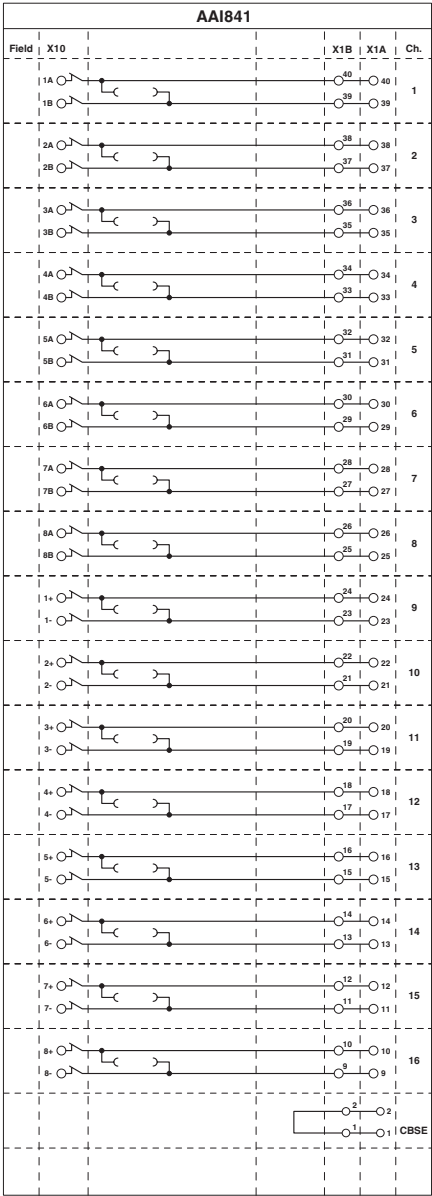
Connection to AAI 141 / AAI 143

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Circuit diagram



Connection to AAI 841

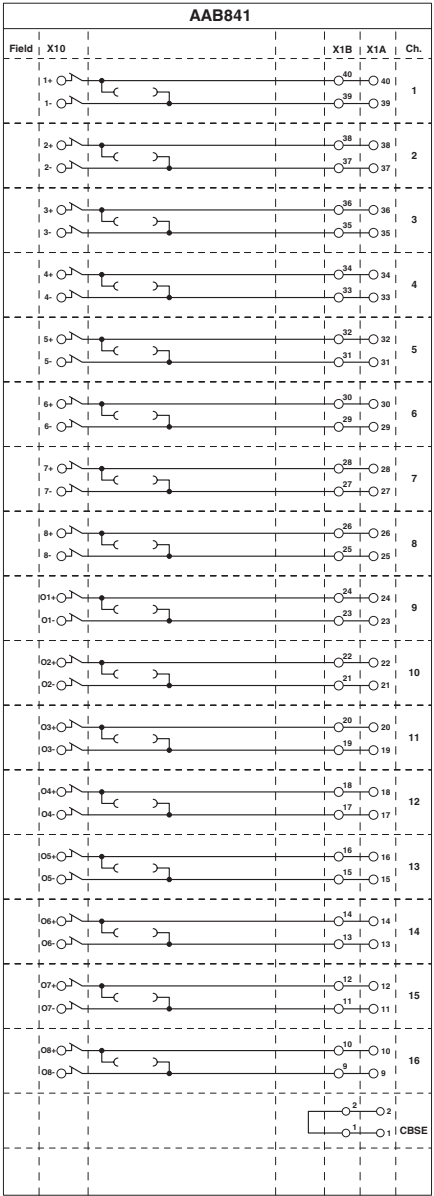
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Circuit diagram



Connection to AAB 841

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2321981>

 CSA Approval ID: LR 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	24 V	0.1 A	-	-

FLKM-2KS40/PMT/ST/YCS - Passive module



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Classifications

ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

ETIM

ETIM 9.0	EC002780
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UNSPSC

UNSPSC 21.0	39121400
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FLKM-2KS40/PMT/ST/YCS - Passive module



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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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