

## Customized Yokogawa CS3000 and PROSAFE-RS I/O Termination boards



## INTRODUCTION

### **About Yokogawa**

Yokogawa's goal as a company is to contribute to society through broad-ranging activities in the areas of measurement, control, and information.

Individually, they aim to combine good citizenship with the courage to innovate.

Yokogawa is one of the worldwide leading manufacturers of Control Systems and Measurement devices for Industrial Plants, with Headquarters in Japan and decision centers spreadout in all continents.

### **Weidmüller Customer Specific Solutions:**

For over twenty years Weidmuller has partnered with major companies to provide specific interface solutions. Weidmuller's expertise in interconnection and interface technology has led to the development of a vast range of compact I/O modules designed to interconnect with Yokogawa DCS and ESD systems. To keep pace with the ever changing requirements of industry Weidmuller is continually expanding its range of I/O modules for Yokogawa Systems.

The products contained in the following data sheets have been developed for, and used by Yokogawa in countries throughout the world, according the requirements of the local subsidiaries.

The Weidmüller interface products can work with the CS3000 and PROSAFE systems in order to make the wiring of the I/O Card from the field to the FCS much easier, and overall minimize the wiring mistakes. The boards have been designed in order to be compatible with the standard connectors used in the Yokogawa I/O Cards (AKB and KS). These Interfaces provide additional features as redundancy for the signals (double connectivity) and for the power supply, which can be monitored remotely via a relay contact. There is also the possibility to use dry or wet contact in many I/O modules.

The following selection guides, allows you to choose the product you need for your application easily and fastly. If the interface you require is not listed please contact your nearest Weidmüller representative for further assistance.



## Yokogawa Module overview - Direct inputs/outputs for CS3000 digital cards

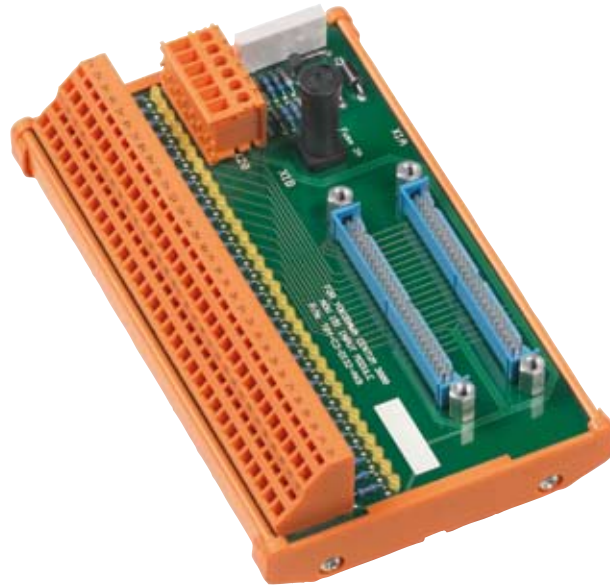
Yokogawa Card		Functionalities								Modules		
CARD	N° type of channels	Type of wiring	DCS Connection	Field Connection		1 LED per channel	Fuse per channel	Power supply redundancy	Alarm	Order no	Type	Page
			AKB331 (50 poles)	Screw	Tension clamp							
ADV151	32DI	2-wire	2					YES	YES	8824450000	TBY-C3-DI32-AKB ADV151	A2

## Direct inputs/outputs for CS3000 digital cards

## 32 channel digital input module for connection to Yokogawa CS3000 ADV151

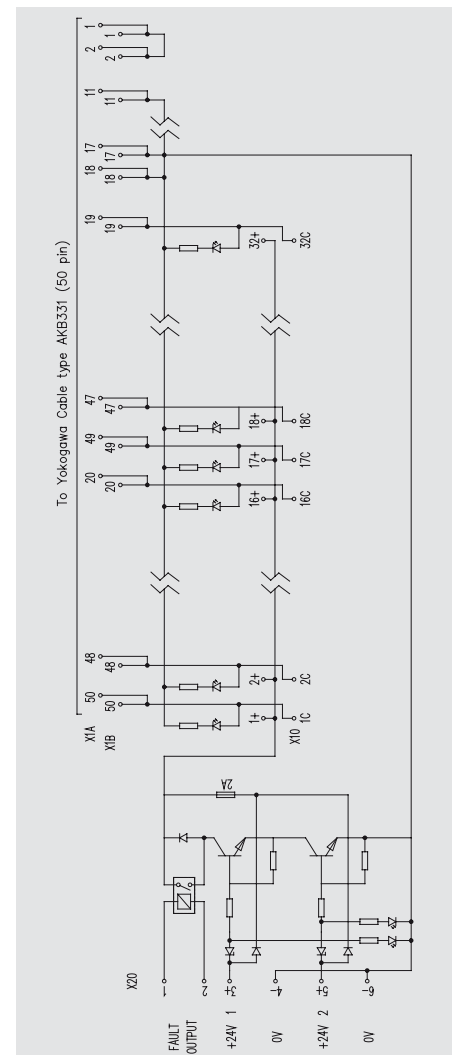
- Power supply indication.
- Redundant power supply with 2 monitored voltage.
- Terminals with tension clamp.
- Indication LED for each channel.
- Redundant system cable connection.

## CS3000 ADV151 32DI
























## Technical data

<b>Yokogawa card</b>	<b>ADV151</b>	
<b>Connection</b>	AKB331 (50 poles)	
Connection to Yokogawa Card	Tension clamp	
Connection type (field)	0,5 ... 2,5mm <sup>2</sup> solid/ 0,5 ... 1,5mm <sup>2</sup> flexible	
Conductor size (field)	Yes	
System connector redundancy		
<b>Rated data</b>		
Operating voltage	21...26,4 VDC	
Fuse per channel	No	
LED status indication per channel	Yellow	
<b>Supply voltage</b>		
Redundancy	Yes	
Operating voltage	21...26,4 VDC	
Supply current fuse	2A 5x20mm	
LED voltage status	Green, each supply has its own power	
Control relay (Alarm)/Contact	Yes/ 1NO 24VDC 2...100mA	
<b>General data</b>		
Ambient temperature:	-25°C... 70°C	
Storage temperature:	-40°C ... 85°C	
Certification/Directives	EN61000-6-2 ; DIN EN60664-1 ; (89/336/EWG) ; (72/23/EWG) ; CE	
<b>Dimensions</b>		
Length A x width B (mm)	202*109	
<b>Information</b>		
<b>Ordering data</b>		
	<b>Type</b>	<b>Order no.</b>
	TBY-C3-D132-AKB-ADV151	8824450000
<b>Information</b>		
<b>Accessories</b>		
<b>Note</b>	Fus 2A 5x20 0430900000	



## Yokogawa Module overview - Isolated inputs for CS3000 digital cards

Yokogawa Card		Functionalities								Modules		
CARD	N° type of channels	DCS Connection	Field Connection		1 LED per channel	Fuse per channel	Input voltage (field)	Power supply redundancy	Alarm	Order no	Type	Page
		AKB331 (50 poles)	Screw	Tension clamp								
ADV151	32DI	1					24VDC	NO	NO	<b>7923430000</b>	TBY-C3-RI32-AKB ADV151 24VDC	B2*
		1					24VDC	NO	NO	<b>7940024275</b>	TBY-C3-RI32-AKB ADV151 24VDC	B3**
		2					24VDC	NO	NO	<b>7940021585</b>	TBY-C3-RI32-AKB ADV151 24VDC	B4
		2					120VAC	NO	NO	<b>7940020956</b>	TBY-C3-RI32-AKB ADV151 120VAC	B4
		2					240VAC	NO	NO	<b>7940025557</b>	TBY-C3-RI32-AKB ADV151 240VAC	B4
ADV151	32DI	2		NO			24VDC	NO	NO	<b>7540033063</b>	TBY-C3-RI32 ADV151/161 24VDC	B5
ADV161	32DI	2		NO			24VDC	NO	NO	<b>7540033063</b>	TBY-C3-RI32 ADV151/161 24VDC	B5

(\*) Board supply and logic supply same for 32 ch

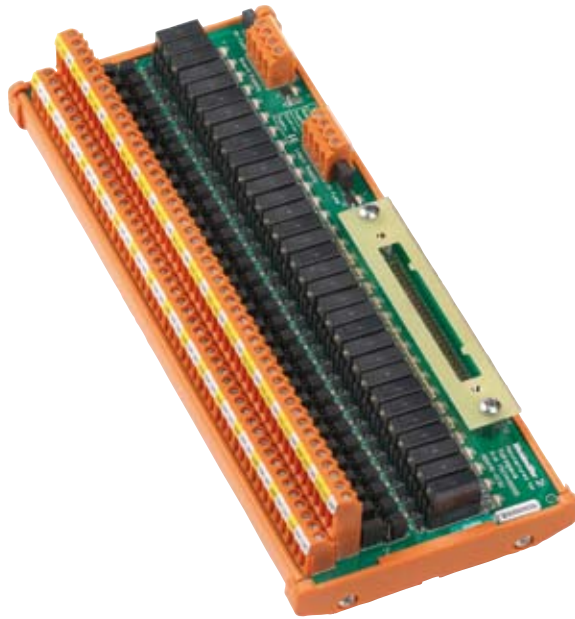
(\*\*) Board supply and logic supply same for 1-16 a 16 to 32 ch

**Isolated inputs for CS3000 digital cards**

**32 channel digital input module for connection to Yokogawa CS3000 card ADV151**

- Terminals with screw connection.
- Fuse & LED for each channel.
- Compact design.

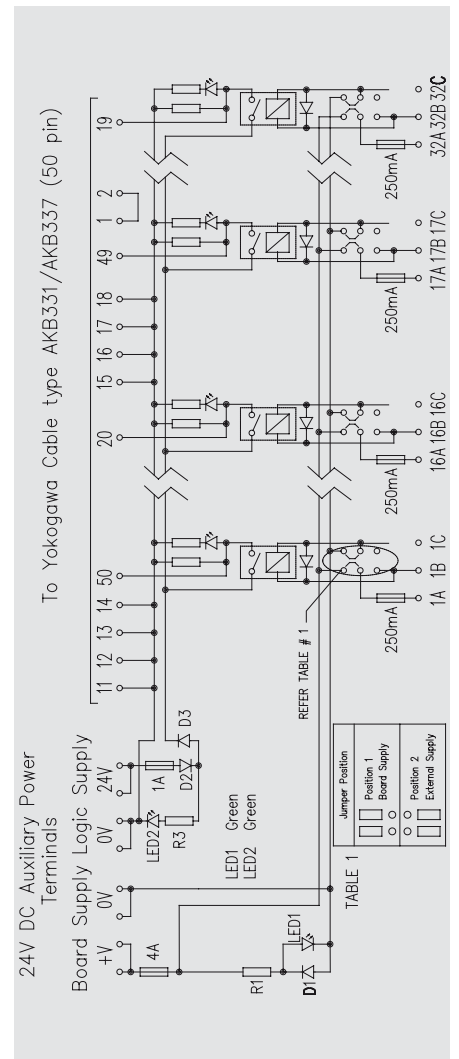
**CS3000 ADV151 32DI**



**Technical data**

<b>Yokogawa card</b>	
<b>Connection</b>	
Connection to Yokogawa Card	
Connection type (field)	
Conductor size (field)	
System connector redundancy	
<b>Rated data</b>	
Logic supply / Output voltage (to Yokogawa Card)	24VDC
Logic supply fuse	1A
Input voltage (Coil Voltage)	24VDC
LED status indication per channel	Red
Channel fuse	250mA
<b>Supply voltage</b>	
Redundancy	No
Board supply voltage	24VDC
Board supply fuse	4A
LED voltage status	Green
Control relay (Alarm)/Contact	No
<b>General data</b>	
Input/output Isolation	
	Rate voltage 300V
	Overvoltage category III
	Test voltage (input/output) 2KV
Ambient temperature:	-25°C...50°C
Storage temperature:	-25°C...60°C
Certificación/Directives	EN50082-2, EN50081-1, ASNZS 1044:1995, IEC 61373
<b>Dimensions</b>	
Length A x width B (mm)	263*109
<b>Information</b>	
<b>Ordering data</b>	
<b>Information</b>	
<b>Accessories / Spare Parts</b>	
<b>Note</b>	
250mA Fuse: 7940010807	
1A Fuse: 7940006597	
4A Fuse: 7940012209 OMRON G6D-1A 24VDC	

<b>ADV151</b>	
AKB331	
Screw	
0,5 ... 6mm <sup>2</sup> solid/ 0,5 ... 4mm <sup>2</sup> flexible	
No	
24VDC	
1A	
24VDC	
Red	
250mA	
No	
24VDC	
4A	
Green	
No	
	300V
	III
	2KV
	-25°C...50°C
	-25°C...60°C
	EN50082-2, EN50081-1, ASNZS 1044:1995, IEC 61373
	263*109
<b>Type</b>	
TBY-C3-R132-AKB ADV151 24VDC	<b>Order no.</b>
	7923430000
<b>Information</b>	
<b>Accessories / Spare Parts</b>	
<b>Note</b>	
250mA Fuse: 7940010807	
1A Fuse: 7940006597	
4A Fuse: 7940012209 OMRON G6D-1A 24VDC	





**32 channel digital input module for connection to Yokogawa CS3000 card ADV151**

- Terminals with screw connection.
- Fuse & LED for each channel.
- Two board supplies, one each for channels 1-16 & 17-32.
- Two logic supplies, one each for channels 1-16 & 17-32.

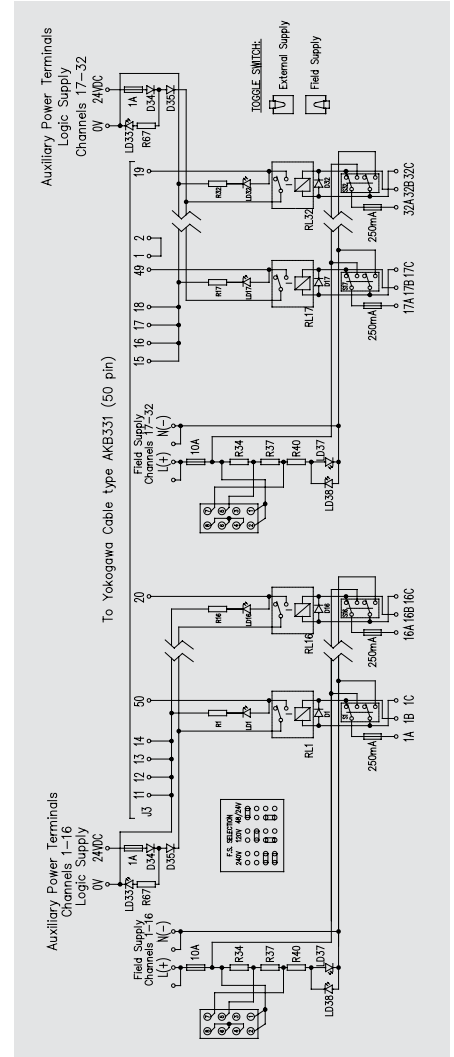
**CS3000 ADV151 32DI**



**Technical data**

<b>Yokogawa card</b>	
<b>Connection</b>	
Connection to Yokogawa Card	
Connection type (field)	
Conductor size (field)	
System connector redundancy	
<b>Rated data</b>	
Logic supply / Output voltage (to Yokogawa Card)	
Logic supply fuse	
Input voltage (Coil Voltage)	
LED status indication per channel	
Channel fuse	
<b>Supply voltage</b>	
Redundancy	
Board supply voltage	
Board supply fuse	
LED voltage status	
Control relay (Alarm)/Contact	
<b>General data</b>	
Input/output Isolation	
	Rate voltage
	Overvoltage category
	Test voltage (input/output)
Ambient temperature:	
Storage temperature:	
Certificación/Directives	
<b>Dimensions</b>	
Length A x width B (mm)	
<b>Information</b>	
<b>Ordering data</b>	
<b>Information</b>	
<b>Accessories / Spare Parts</b>	
<b>Note</b>	

<b>ADV151</b>	
AKB331	
Screw	
0,5 ... 6mm <sup>2</sup> solid/ 0,5 ... 4mm <sup>2</sup> flexible	
No	
24VDC	
1A	
24VDC	
Red	
250mA	
No	
24VDC	
2A	
Green	
No	
300V	
III	
2KV	
-25°C...50°C	
-25°C...60°C	
EN50082-2, EN50081-1, ASNZS 1044:1995, IEC 61373	
505*109	
<b>Type</b>	<b>Order no.</b>
TBY-C3-R132-AKB ADV151 24VDC	7940024275
250mA Fuse: 0430500000	
1A Fuse: 0430700000	
4A Fuse: 0431200000 OMRON G2R-1 24VDC	



**Isolated inputs for CS3000 digital cards**

**32 channel digital input module for connection to Yokogawa CS3000 card ADV151**

- Terminals with screw connection.
- Fuse & LED for each channel.
- Two board supplies, one each for channels 1-16 & 17-32.
- Two logic supplies, one each for channels 1-16 & 17-32.
- Redundant system cable connection.

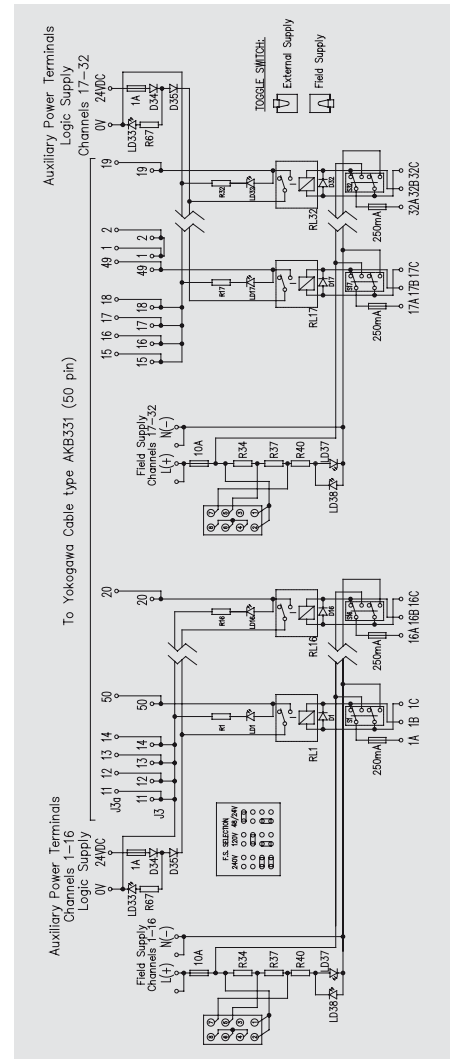
**CS3000 ADV151 32DI**



**Technical data**

<b>Yokogawa card</b>	
<b>Connection</b>	
Connection to Yokogawa Card	
Connection type (field)	
Conductor size (field)	
System connector redundancy	
<b>Rated data</b>	
Logic supply / Output voltage (to Yokogawa Card)	24VDC
Logic supply fuse	1A
Input voltage (Coil Voltage)	24VDC / 120 VAC / 240 VAC
LED status indication per channel	Red
Channel fuse	250mA
<b>Supply voltage</b>	
Redundancy	No
Board supply voltage	24VDC / 120 VAC / 240 VAC
Board supply fuse	4A
LED voltage status	Green
Control relay (Alarm)/Contact	No
<b>General data</b>	
Input/output Isolation	
	Rate voltage
	Overvoltage category
	Test voltage (input/output)
Ambient temperature:	-25°C...50°C
Storage temperature:	-25°C...60°C
Certificación/Directives	EN50082-2, EN50081-1, AS/NZS 1044:1995, IEC 61373
<b>Dimensions</b>	
Length A x width B (mm)	505*109
<b>Information</b>	
<b>Ordering data</b>	
<b>Information</b>	
<b>Accessories / Spare Parts</b>	
<b>Note</b>	250mA Fuse: 0430500000 1A Fuse: 0430700000 4A Fuse: 0431200000 OMRON G2R-1 24VDC

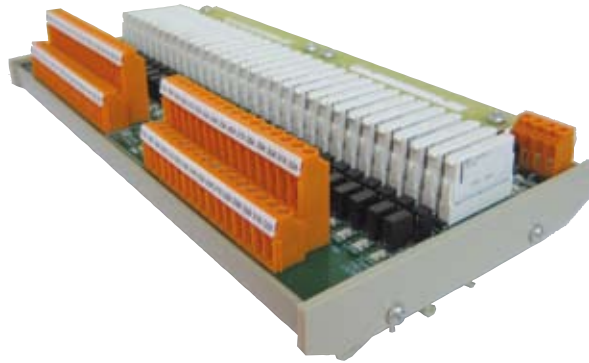
<b>ADV151</b>	
AKB331	
Screw	
0,5 ... 6mm <sup>2</sup> solid/ 0,5 ... 4mm <sup>2</sup> flexible	
Yes	
24VDC	
1A	
24VDC / 120 VAC / 240 VAC	
Red	
250mA	
No	
24VDC / 120 VAC / 240 VAC	
4A	
Green	
No	
300V	
III	
2KV	
-25°C...50°C	
-25°C...60°C	
EN50082-2, EN50081-1, AS/NZS 1044:1995, IEC 61373	
<b>Type</b>	
<b>Order no.</b>	
TBY-C3-R132-AKB ADV151 24VDC	7940021585
TBY-C3-R132-AKB ADV151 120VAC	7940020956
TBY-C3-R132-AKB ADV151 240VAC	7940025557
250mA Fuse: 0430500000 1A Fuse: 0430700000 4A Fuse: 0431200000 OMRON G2R-1 24VDC	



**32 channel digital input module for connection to Yokogawa CS3000 card ADV151-ADV161**

- Terminals with screw connection.
- Fuse & LED for each channel.
- Compact design.
- Blown fuse LED indication for each channel.
- Redundant system cable connection.

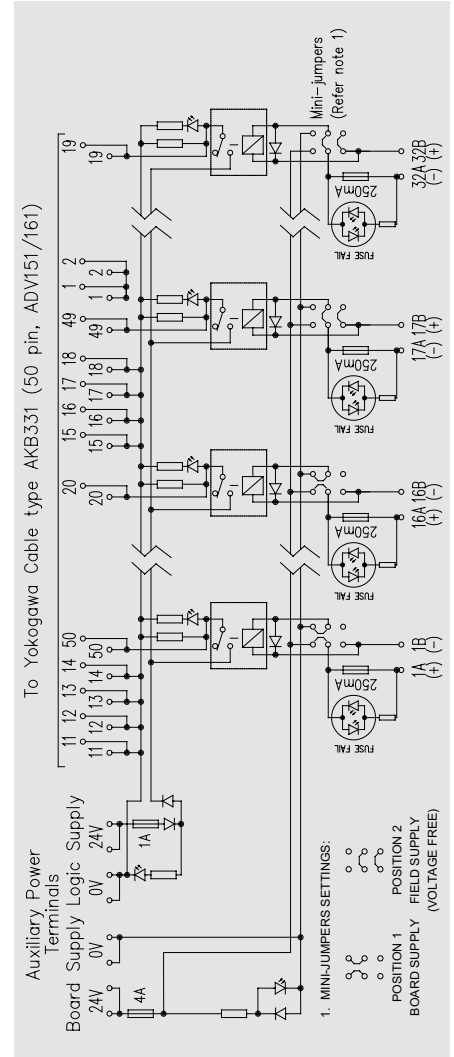
**CS3000 ADV151 32DI**



**Technical data**













<b>Yokogawa card</b>	
<b>Connection</b>	
Connection to Yokogawa Card	
Connection type (field)	
Conductor size (field)	
System connector redundancy	
<b>Rated data</b>	
Logic supply / Output voltage (to Yokogawa Card)	24VDC
Logic supply fuse	1A
Input voltage (Coil Voltage)	24VDC
LED status indication per channel	Red
Channel fuse	250mA
<b>Supply voltage</b>	
Redundancy	No
Board supply voltage	24VDC
Board supply fuse	4A
LED voltage status	Green
Channel fuse indication	Red
Control relay (Alarm)/Contact	No
<b>General data</b>	
Input/output Isolation	
	Rate voltage
	Overvoltage category
	Test voltage (input/output)
Ambient temperature:	-25°C...50°C
Storage temperature:	-25°C...60°C
Certificación/Directives	EN50082-2, EN50081-1, ASNZS 1044:1995, IEC 61373
<b>Dimensions</b>	
Length A x width B (mm)	260*132
<b>Information</b>	
<b>Ordering data</b>	
<b>Information</b>	
<b>Accessories / Spare Parts</b>	
<b>Note</b>	250mA Fuse: 7940010807 1A Fuse: 7940006597 4A Fuse: 7940012209

<b>ADV151</b>	
AKB331	
Screw clamp	
0,5 ... 6mm <sup>2</sup> solid/ 0,5 ... 4mm <sup>2</sup> flexible	
Yes	
<b>Type</b>	
TBY-C3-RI32-AKB ADV151-ADV161 24VDC	<b>Order no.</b> <b>7940033063</b>





## Yokogawa Module overview - Isolated outputs for CS3000 digital cards

Yokogawa Card		Functionalities									Modules			
CARD	N° type of channels	Compact version	DCS Connection		Field Connection		Type of contact	Fuse per channel	Supply voltage	Power supply redundancy	Alarm	Order no	Type	Page
			AKB331 (50poles)	Screw	Tension clamp	Screw								
ADV551	32DO	XX	2			1NO		24VDC	YES	YES	8824470000	TBY-C3-RO32-AKB ADV551 24VDC	C2	
			1			1NO	 (*)	24VDC	NO	YES	7940005820	TBY-C3-RO32-AKB ADV551 24VDC FUS	C3	
			1			1NO		24VDC	NO	NO	7923440000	TBY-C3-RO32-AKB ADV551 24VDC FUS	C4	
			1			1NO		110VAC	NO	NO	7926590000	TBY-C3-RO32-AKB ADV551 110VAC FUS	C4	
			2			1CO		24VDC	NO	NO	7940021586	TBY-C3-RO32-AKB ADV551 24VDC FUS	C5	
			2			1CO		110VAC	NO	NO	7940020957	TBY-C3-RO32-AKB ADV551 110VAC FUS	C5	
ADV551	32DO	XX	2			1CO		24VDC	NO	NO	7540033062	TBY-C3-RO32-AKB ADV551/561 24VDC	C6	
ADV561	32DO	XX	2			1CO		24VDC	NO	NO	7540033062	TBY-C3-RO32-AKB ADV551/561 24VDC	C6	

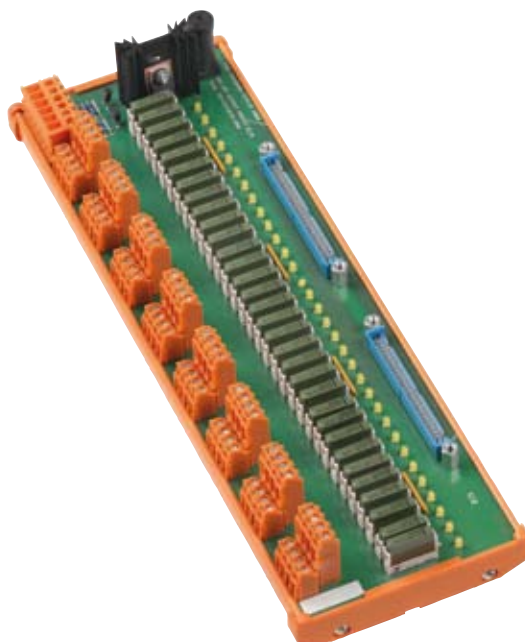
(\*) Blow-up fus led indication

## Isolated outputs for CS3000 digital cards

### 32 channel digital output module for connection to Yokogawa CS3000 ADV551

- Power supply indication.
- Redundant power supply with two monitored voltage inputs.
- Indication LED for each channel.
- Terminals with screw connection.
- Redundant system cable connection.

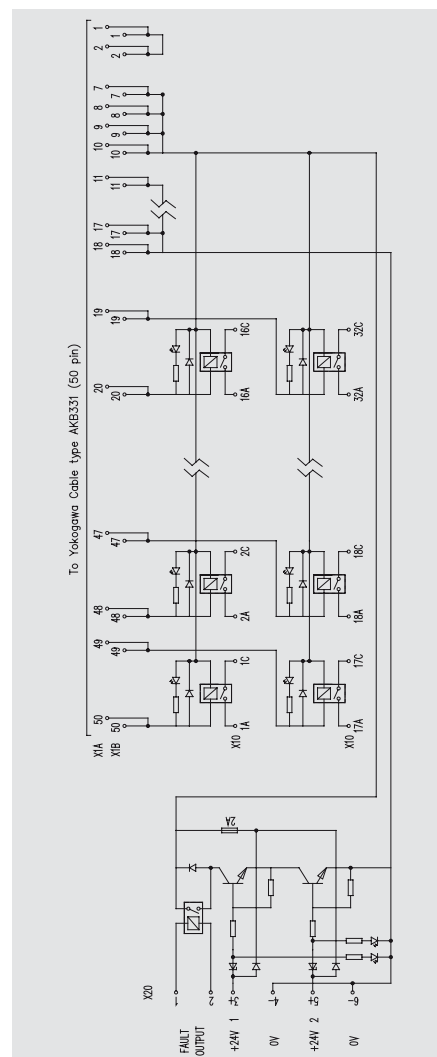
### CS3000 ADV551 32DO



#### Technical data

<b>Yokogawa card</b>	
<b>Connection</b>	
Connection to Yokogawa Card	
Connection type (field)	
Conductor size (field)	
System connector redundancy	
<b>Rated data</b>	
Input voltage (from Yokogawa Card)	
Output per channel (Relay contact)	
LED status indication per channel	
Channel fuse value	
<b>Supply voltage</b>	
Redundancy	
Operating voltage	
Board Supply current fuse	
LED voltage status	
Channel Fuse Indication & remote alarm contact	
Control relay (Alarm)/Contact	
<b>General data</b>	
Input/output Isolation	
	Rate voltage
	Overvoltage category
	Test voltage (input/output)
Ambient temperature:	
Storage temperature:	
Certificación/Directives	
<b>Dimensions</b>	
Length A x width B (mm)	
<b>Information</b>	
<b>Ordering data</b>	
<b>Information</b>	
<b>Accessories / Spare Parts</b>	
<b>Note</b>	

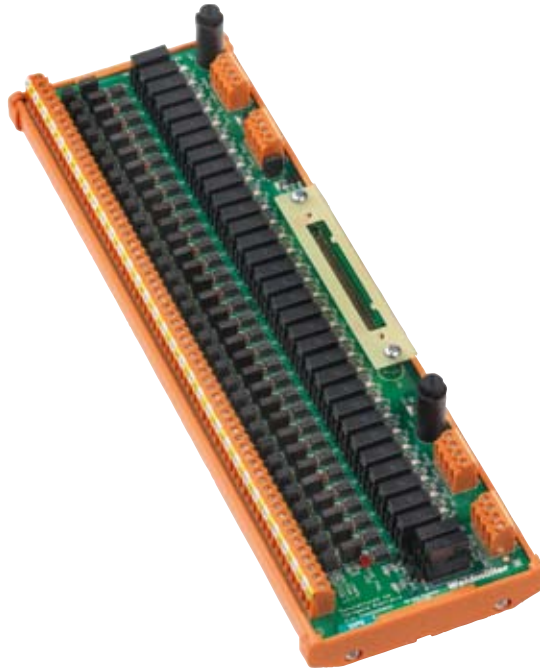
ADV551	
AKB331 (50 poles)	
Screw	
0,5 ... 2,5mm <sup>2</sup> solid/ 0,5 ... 1,5mm <sup>2</sup> flexible	
Yes	
21...26,4 VDC	
1A @ 250VAC	
Yellow	
Yes	
21...26,4 VDC	
2A 5x20mm	
Green, each supply has its own power	
No	
Yes/ 1NO 24VDC 2...100mA	
300V	
II	
4KVe <sub>eff</sub>	
-25°C...70°C	
-40°C...85°C	
EN61000-6-2 ; DIN EN60664-1 ; (89/336/EWG) ; (72/23/EWG) ; CE	
324*109	
<b>Type</b>	<b>Order no.</b>
TBY-C3-RO32-AKB-ADV551 24VDC	8824470000
Fus 2A 5x20 0430900000	
Relay 24Vdc APE30024 4060120000	



**32 channel digital output module for connection to Yokogawa CS3000 card ADV551**

**CS3000 ADV551 32DO**

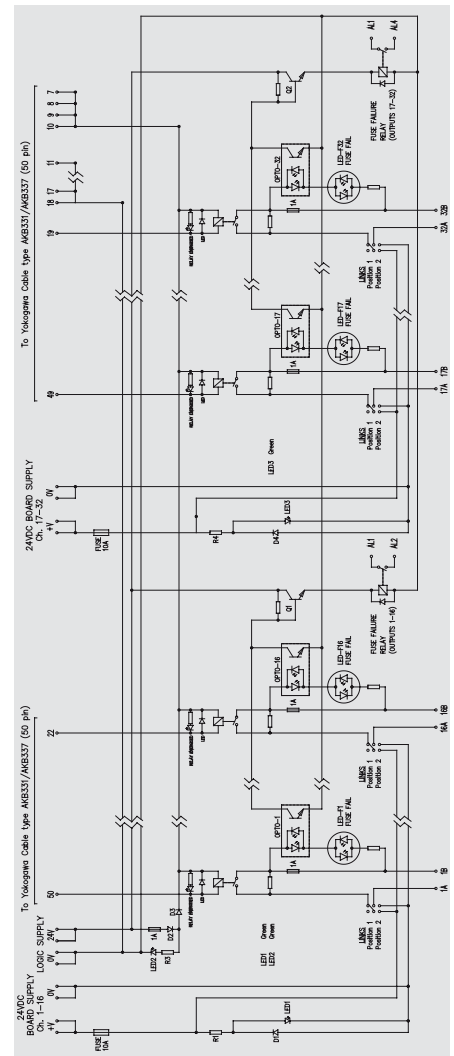
- Two board supplies, one each for channels 1-16 & 17-32.
- Blown fuse LED indication for each channel.
- Terminal with screw connection.
- Fuse & LED for each channel.



**Technical data**

<b>Yokogawa card</b>	
<b>Connection</b>	
Connection to Yokogawa Card	
Connection type (field)	
Conductor size (field)	
System connector redundancy	
<b>Rated data</b>	
Input voltage (from Yokogawa Card)	
Output per channel (Relay contact)	
LED status indication per channel	
Channel fuse value	
<b>Supply voltage</b>	
Redundancy	
Operating voltage	
Board Supply current fuse	
LED voltage status	
Channel Fuse Indication & remote alarm contact	
Control relay (Alarm)/Contact	
<b>General data</b>	
Input/output Isolation	
	Rate voltage
	Overvoltage category
	Test voltage (input/output)
Ambient temperature:	
Storage temperature:	
Certificación/Directives	
<b>Dimensions</b>	
Length A x width B (mm)	
<b>Information</b>	
<b>Ordering data</b>	
<b>Information</b>	
<b>Accessories / Spare Parts</b>	
<b>Note</b>	

<b>ADV551</b>	
AKB331	
Screw	
0,5 ... 6mm <sup>2</sup> solid/ 0,5 ... 4mm <sup>2</sup> flexible	
No	
24 VDC	
1A @ 30VDC	
Red	
1A	
No	
24VDC	
10A each supply	
Green, each supply has its own power	
Yes	
Yes, 24VDC @ 1A	
300V	
III	
2KV	
-25°C...50°C	
-25°C...60°C	
EN50082-2, EN50081-1, ASNZS 1044:1995, IEC 61373	
335*109	
<b>Type</b>	<b>Order no.</b>
TBY-C3-RO32-AKB-ADV551 24VDC FUS	7940005820
1A Fuse: 7940006597	
10A Fuse: 7940006596 G6D-1A Relay	

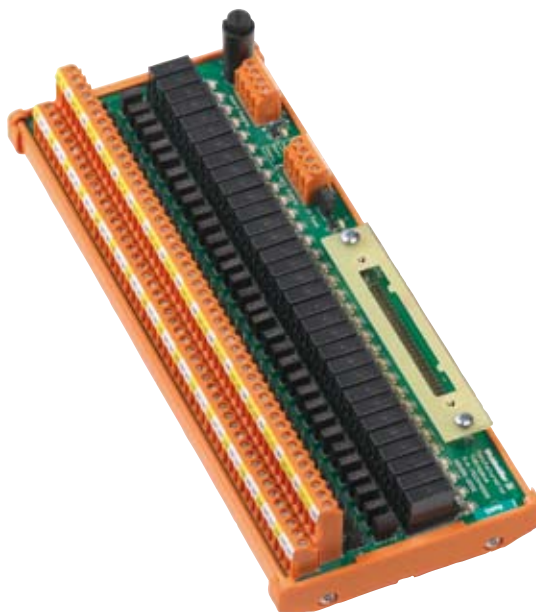


## Isolated outputs for CS3000 digital cards

### 32 channel digital output module for connection to Yokogawa CS3000 card ADV551

- Terminals with screw connection.
- Fuse & LED for each channel.
- Compact design.

### CS3000 ADV551 32DO



#### Technical data

##### Yokogawa card

##### Connection

Connection to Yokogawa Card  
 Connection type (field)  
 Conductor size (field)  
 System connector redundancy

##### Rated data

Input voltage (from Yokogawa Card)  
 Output per channel (Relay contact)  
 LED status indication per channel  
 Channel fuse value

##### Supply voltage

Redundancy  
 Operating voltage  
 Board Supply current fuse  
 LED voltage status  
 Channel Fuse Indication & remote alarm contact  
 Control relay (Alarm)/Contact

##### General data

Input/output Isolation

Rate voltage  
 Overvoltage category  
 Test voltage (input/output)

Ambient temperature:  
 Storage temperature:  
 Certification/Directives

##### Dimensions

Length A x width B (mm)

##### Information

#### Ordering data

##### Information

#### Accessories / Spare Parts

##### Note

##### ADV551

AKB331  
 Screw  
 0,5 ... 6mm<sup>2</sup> solid/ 0,5 ... 4mm<sup>2</sup> flexible  
 No

24 VDC  
 1A @ 30VDC  
 Red  
 1A

No  
 24 VDC / 110 VAC  
 10A  
 Green  
 No

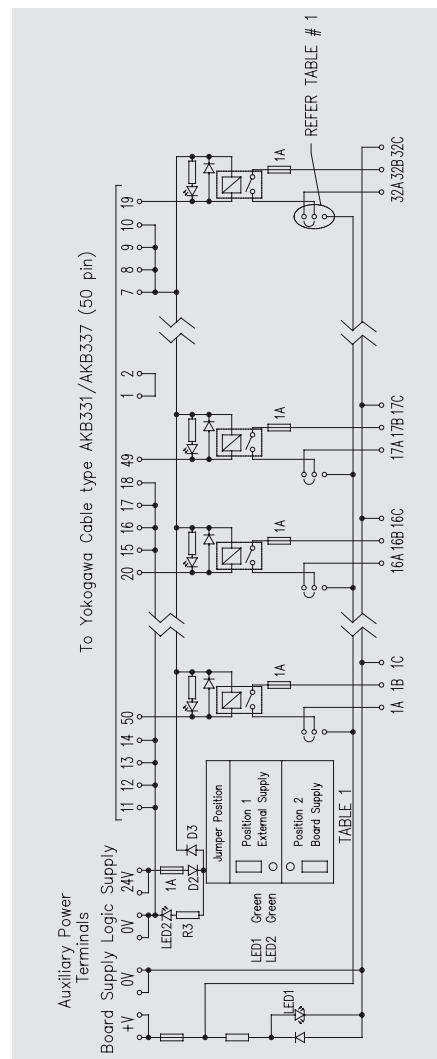
No

300V  
 III  
 2KV  
 -25°C...50°C  
 -25°C...60°C  
 EN50082-2, EN50081-1, ASNZS 1044:1995, IEC 61373

263\*109

Type	Order no.
TBY-C3-RO32-AKB-ADV551 24VDC FUS	7923440000
TBY-C3-RO32-AKB-ADV551 110VAC FUS	7926590000

1A Fuse: 7940006597  
 10A Fuse: 7940006596 Relay Omron G6D

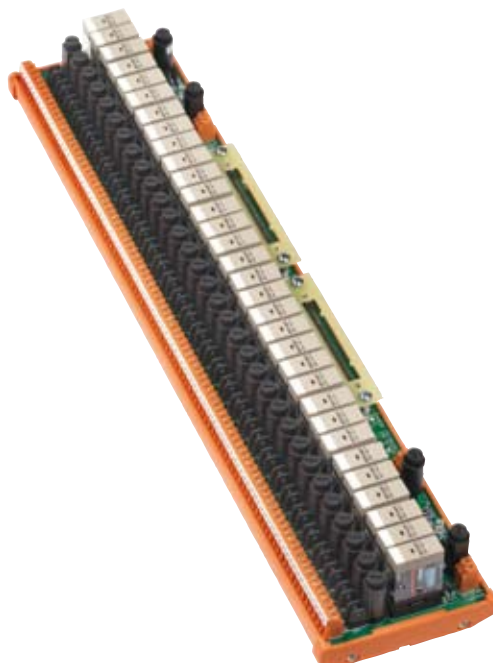




**32 channel digital output module for connection to Yokogawa CS3000 card ADV551**

**CS3000 ADV551 32DO**

- Terminal with screw connection.
- Fuse & LED for each channel.
- Two board supplies, one each for channels 1-16 & 17-32.
- Two logic supplies, one each for channels 1-16 & 17-32.
- Redundant system cable connection.



**Technical data**

**Yokogawa card**

**Connection**

Connection to Yokogawa Card  
 Connection type (field)  
 Conductor size (field)  
 System connector redundancy

**Rated data**

Input voltage (from Yokogawa Card)  
 Output per channel (Relay contact)  
 LED status indication per channel  
 Channel fuse value

**Supply voltage**

Redundancy  
 Operating voltage  
 Board Supply current fuse  
 LED voltage status  
 Channel Fuse Indication & remote alarm contact  
 Control relay (Alarm)/Contact

**General data**

Input/output Isolation

	Rate voltage	300V
	Overvoltage category	III
	Test voltage (input/output)	2KV

Ambient temperature:  
 Storage temperature:  
 Certification/Directives

**Dimensions**

Length A x width B (mm)

**Information**

**Ordering data**


**Information**

**Accessories / Spare Parts**

**Note**

**ADV551**

AKB331  
 Screw  
 0,5 ... 6mm<sup>2</sup> solid/ 0,5 ... 4mm<sup>2</sup> flexible  
 Yes

24VDC  
 3.15A @ 120VAC  
 Yellow  
 3.15A

No  
 24VDC / 120 VAC  
 10A  
 Red  
 No  
 No

	Rate voltage	300V
	Overvoltage category	III
	Test voltage (input/output)	2KV

-25°C...50°C  
 -25°C...60°C  
 EN50082-2, EN50081-1, AS/NZS 1044:1995, IEC 61373

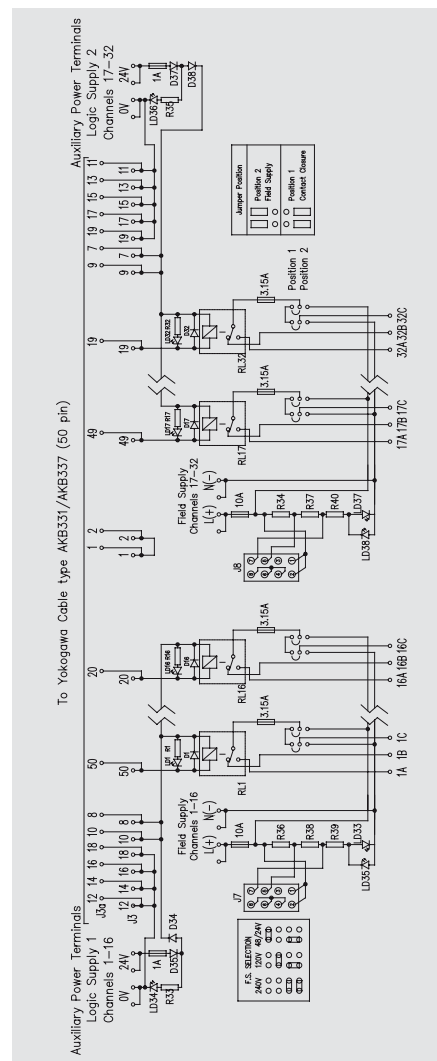
505\*109

**Information**

**Type** **Order no.**

TBY-C3-RO32-AKB-ADV551 24VDC FUS **7940021586**  
 TBY-C3-RO32-AKB-ADV551 110VAC FUS **7940020957**

1A Fuse: 0430700000  
 3.15A Fuse: 7940010813  
 10A Fuse: 7940006596 Relay OMRON G2R



**Isolated outputs for CS3000 digital cards**

**32 channel digital output module for connection to Yokogawa CS3000 card ADV551**

- Two board supplies, one each for channels 1-16 & 17-32.
- Blown fuse LED indication for each channel.
- Screw connection.
- Fuse & LED for each channel.
- Redundant system cable connection.

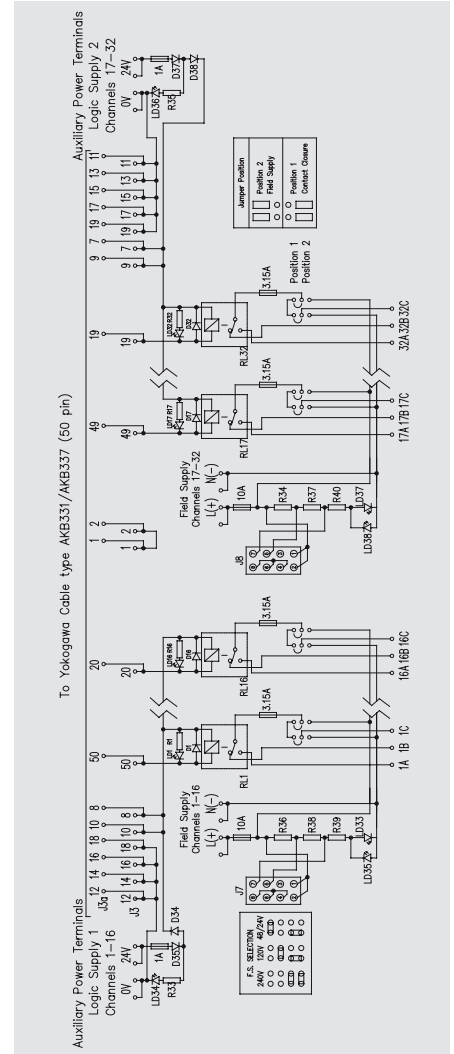
**CS3000 ADV551 32DO**


















**Technical data**

<b>Yokogawa card</b>	
<b>Connection</b>	
Connection to Yokogawa Card	
Connection type (field)	
Conductor size (field)	
System connector redundancy	
<b>Rated data</b>	
Input voltage (from Yokogawa Card)	
Output per channel (Relay contact)	
LED status indication per channel	
Channel fuse value	
<b>Supply voltage</b>	
Redundancy	
Operating voltage	
Board Supply current fuse	
LED voltage status	
Channel Fuse Indication & remote alarm contact	
Channel Fuse Indication	
Control relay (Alarm)/Contact	
<b>General data</b>	
Input/output Isolation	
	Rate voltage
	Overvoltage category
	Test voltage (input/output)
Ambient temperature:	
Storage temperature:	
Certificación/Directives	
<b>Dimensions</b>	
Length A x width B (mm)	
<b>Information</b>	
<b>Ordering data</b>	
<b>Information</b>	
<b>Accessories / Spare Parts</b>	
<b>Note</b>	

<b>ADV551</b>	
AKB331	
Screw	
0,5 ... 6mm <sup>2</sup> solid/ 0,5 ... 4mm <sup>2</sup> flexible	
Yes	
24VDC	
1A @ 30VDC	
Red	
1A	
Yes, channels 1-16 & 17-32 Separate Power Supplies	
24VDC	
10A each supply	
Green each supply has its own power	
No	
Yes / Red	
No	
	Rate voltage
	Overvoltage category
	Test voltage (input/output)
Ambient temperature:	
Storage temperature:	
Certificación/Directives	
<b>Dimensions</b>	
Length A x width B (mm)	
<b>Information</b>	
<b>Ordering data</b>	
<b>Information</b>	
<b>Accessories / Spare Parts</b>	
<b>Note</b>	



## Yokogawa Module overview - Inputs/outputs for CS3000 analog cards

Yokogawa Card		Functionalities					Modules			
CARD	N° type of chanel	DCS Connec-tion	FieldConnection		Test point	Power supply redundancy	Alarm	Order no Alarm	Type	Page
		KS1 (40poles)	Screw	Tension clamp						
AAI135	8AI	1				NO	NO	7940000282	TBY-C3-AI16-KS AAI135	D2
AAI141	16AI	1				NO	NO	7940006658	TBY-C3-AI16-KS AAI141 / AAI143	D3
AAI143	16AI	1				NO	NO	7940006658	TBY-C3-AI16-KS AAI141 / AAI143	D3
AAI143	16AI	2				YES	YES	8824490000	TBY-C3-AI16-KS AAI143	D4
		2				NO	NO	8824500000	TBY-C3-AI16-KS AAI 543	D5
AAI153	16AO	2				NO	NO	8824500000	TBY-C3-AI16-KS AAI 543	D5
AAI835	4AI+4AO	2				NO	NO	8824460000	TBY-C3-AI08-KS AAI 835	D6
AAI841	8AI/8AO	1				NO	NO	7940032826	TBY-C3-AI08-KS AAI 841	D7
AAP135	8AI	1				NO	NO	7940000286	TBY-C3-AI8-KS AAP 135	D8
AAR145	12AI	1				NO	NO	7940000285	TBY-C3-AI12-KS AAR145	D9
AAT145	16AI	1				NO	NO	7940006022	TBY-C3-AI16-KS AAT145	D10
		1				NO	NO	7940005090	TBY-C3-AI16-KS AAT145/AAI543	D11
		2				NO	NO	7940025902	TBY-C3-AI16-KS AAT145/AAI543	D12
AAI543	16AI	1				NO	NO	7940005090	TBY-C3-AI16-KS AAT145/AAI543	D11
		2				NO	NO	7940025902	TBY-C3-AI16-KS AAT145/AAI543	D12

## Inputs/outputs for CS3000 analog cards

### Analogue Input Module for connection to Yokogawa CS3000 card AAI135

- Terminal with screw connection.



#### Technical data

##### Yokogawa card

##### Connection

Connection to Yokogawa Card  
 Connection type (field)  
 Conductor size (field)  
 System connector redundancy

##### Rated data

Input/output signal  
 Capacitor/Resistor channel  
 Fuse per channel  
 LED status indication per channel

##### Supply voltage

Redundancy  
 Operating voltage  
 Supply current fuse  
 LED voltage status  
 Control relay (Alarm)/Contact

##### General data

Ambient temperature:  
 Storage temperature:  
 Certificación/Directives

##### AAI135

KS1 (40 poles)  
 Screw  
 0,5 ... 6mm<sup>2</sup> solid/ 0,5 ... 4mm<sup>2</sup> flexible  
 No

4 to 20mA

No

No

No

No

No

No

No

No

-25°C...50°C

-25°C...60°C

EN50082-2, EN50081-1, ASNZS 1044:1995, IEC 61373

##### Dimensions

Length A x width B (mm)

145\*109

##### Information

#### Ordering data

##### Type

TBY-C3-AI16-KS AAI135

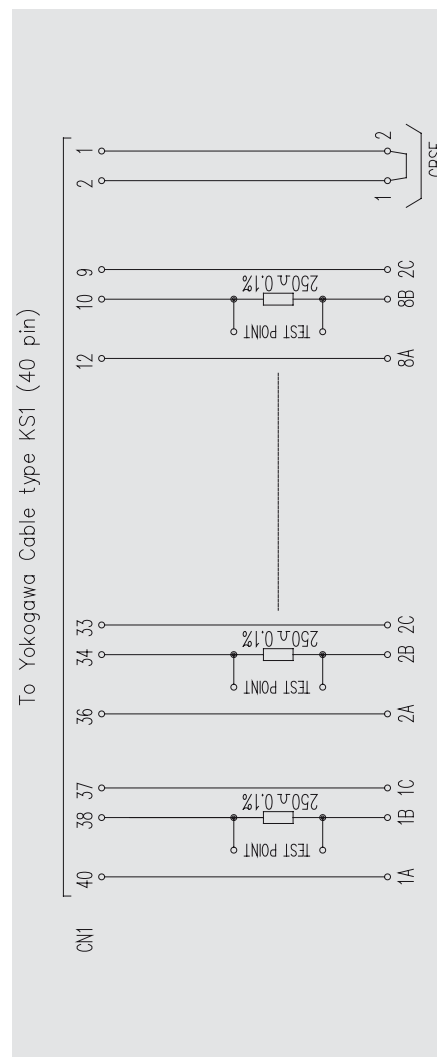
##### Order no.

7940000282

##### Information

#### Accessories / Spare Parts

##### Note



**Inputs/outputs for CS3000 analog cards**

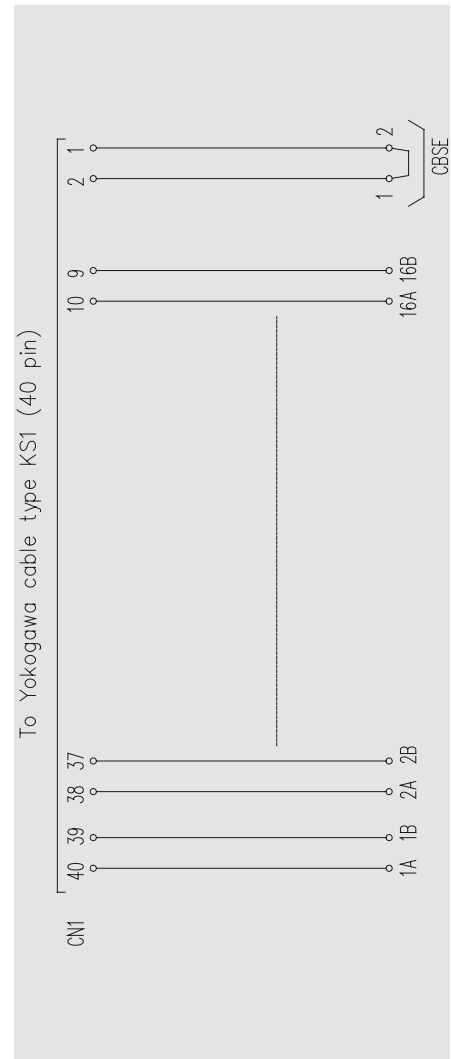
**Analogue Input Module for connection to Yokogawa CS3000 card AAI141 / AAI143 16AI**

- Terminals with screw connection.



**Technical data**

<b>Yokogawa card</b>	<b>AAI141 / AAI143</b>
<b>Connection</b>	
Connection to Yokogawa Card	KS1 (40 poles)
Connection type (field)	Screw clamp
Conductor size (field)	0,5 ... 6mm <sup>2</sup> solid/ 0,5 ... 4mm <sup>2</sup> flexible
System connector redundancy	No
<b>Rated data</b>	
Input/output signal	4 to 20mA
Capacitor/Resistor channel	No
Fuse per channel	No
LED status indication per channel	No
<b>Supply voltage</b>	
Redundancy	No
Operating voltage	No
Supply current fuse	No
LED voltage status	No
Control relay (Alarm)/Contact	No
<b>General data</b>	
Ambient temperature:	-25°C...50°C
Storage temperature:	-25°C...60°C
Certificación/Directives	EN50082-2, EN50081-1, ASNZS 1044:1995, IEC 61373
<b>Dimensions</b>	
Length A x width B (mm)	120*109
<b>Information</b>	
<b>Ordering data</b>	
<b>Information</b>	
<b>Accessories / Spare Parts</b>	
<b>Note</b>	

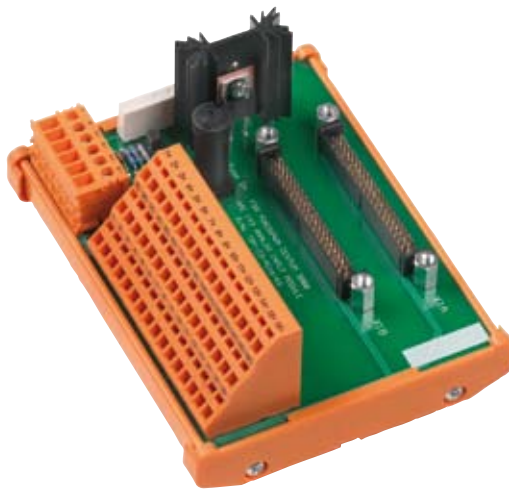


## Inputs/outputs for CS3000 analog cards

## 16 channel analog input module for connection to Yokogawa CS3000 AAI143

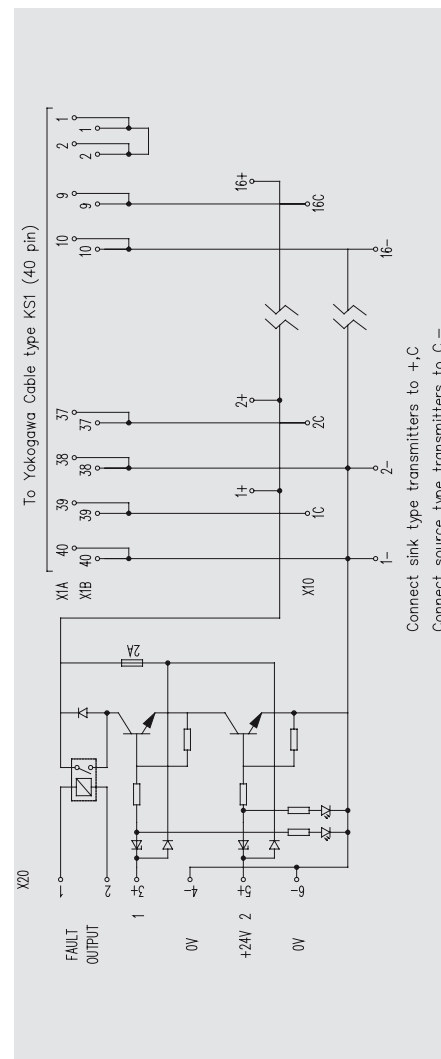
- Power supply indication.
- Redundant power supply with two monitored voltage inputs.
- Terminals with tension clamp.
- Signals are fused through 50mA fuse.
- Redundant system cable connection.

## CS3000 AAI143 16AI



## Technical data

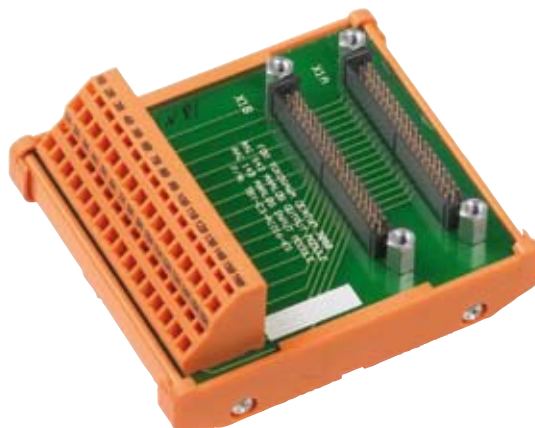
<b>Yokogawa card</b>	<b>AAI143</b>
<b>Connection</b>	
Connection to Yokogawa Card	KS1 (40 poles)
Connection type (field)	Tension clamp
Conductor size (field)	0,5 ... 2,5mm <sup>2</sup> solid/ 0,5 ... 1,5mm <sup>2</sup> flexible
System connector redundancy	Yes
<b>Rated data</b>	
Input/output signal	4 to 20mA
Capacitor/Resistor channel	No
Fuse per channel	50mA 5x20mm
LED status indication per channel	No
<b>Supply voltage</b>	
Redundancy	Yes
Operating voltage	21...26,4 VDC
Supply current fuse	2A 5x20mm
LED voltage status	Green each supply has its own power
Control relay (Alarm)/Contact	Yes / 1NO 24VDC 2...100mA
<b>General data</b>	
Ambient temperature:	-25°C...70°C
Storage temperature:	-40°C...85°C
Certificación/Directives	EN61000-6-2; DIN EN60664-1; (89/336/EWG); (72/23/EWG); CE
<b>Dimensions</b>	
Length A x width B (mm)	273*109
<b>Information</b>	
<b>Ordering data</b>	
<b>Information</b>	
<b>Accessories / Spare Parts</b>	
<b>Note</b>	Fus 2A 5x20 0430900000 Fus 50mA 5x20



**16 channel analog input/output module for connection to Yokogawa CS3000 AAI543**

- 2 terminals per channel.
- Terminals with tension clamp.
- Redundant system cable connection.

**CS3000 AAI543 AIO16**



**Technical data**

**Yokogawa card**

**Connection**

Connection to Yokogawa Card  
 Connection type (field)  
 Conductor size (field)  
 System connector redundancy

**Rated data**

Input/output signal  
 Capacitor/Resistor channel  
 Fuse per channel  
 LED status indication per channel

**Supply voltage**

Redundancy  
 Operating voltage  
 Supply current fuse  
 LED voltage status  
 Control relay (Alarm)/Contact

**General data**

Ambient temperature:  
 Storage temperature:  
 Certificación/Directives

**AAI543**

KS1 (40 poles)  
 Tension clamp  
 0,5 ... 2,5mm<sup>2</sup> solid/ 0,5 ... 1,5mm<sup>2</sup> flexible

4 to 20mA  
 No  
 No  
 No  
 No  
 No

-25°C...70°C  
 -40°C...85°C  
 EN61000-6-2; DIN EN60664-1; (89/336/EWG); (72/23/EWG); CE

**Dimensions**

Length A x width B (mm) 122\*109

**Information**

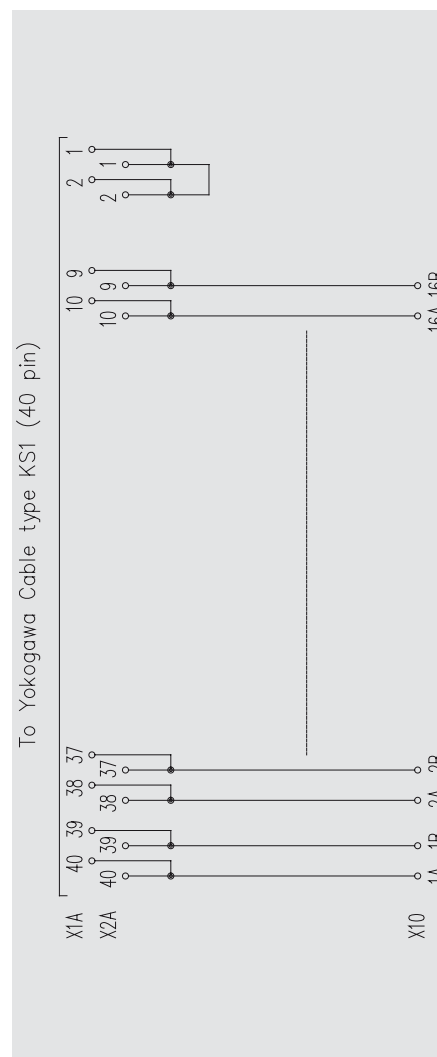
**Ordering data**

Type	Order no.
TBY-C3-AI16-KS AAI543	882450000

**Information**

**Accessories / Spare Parts**

**Note**

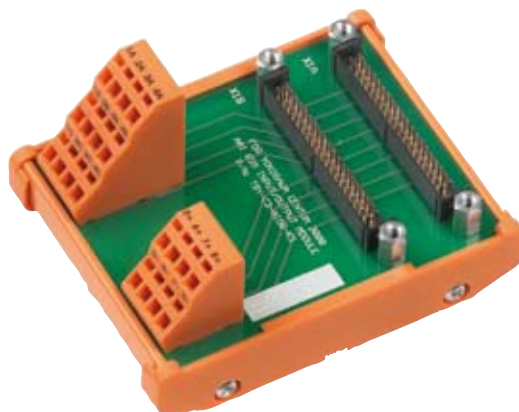


## Inputs/outputs for CS3000 analog cards

### 4 channel analogue input and 4 channel analog output module for connection to Yokogawa CS3000 AAI835

- Circuit is suitable for source and sink type 4-20mA transmitters.
- Terminals with tension clamp.
- Input and output circuits are powered by the I/O module.
- Redundant system cable connection.

### CS3000 AAI835 AIO8



## Technical data

### Yokogawa card

#### Connection

Connection to Yokogawa Card  
 Connection type (field)  
 Conductor size (field)  
 System connector redundancy

#### Rated data

Input/output signal  
 Capacitor/Resistor channel  
 Fuse per channel  
 LED status indication per channel

#### Supply voltage

Redundancy  
 Operating voltage  
 Supply current fuse  
 LED voltage status  
 Control relay (Alarm)/Contact

#### General data

Ambient temperature:  
 Storage temperature:  
 Certificación/Directives

### AAI835

KS1 (40 poles)  
 Tension clamp  
 0,5 ... 2,5mm<sup>2</sup> solid/ 0,5 ... 1,5mm<sup>2</sup> flexible  
 Yes

4 to 20mA

No

No

No

No

No

No

No

No

-25°C...70°C

-40°C...85°C

EN61000-6-2; DIN EN60664-1; (89/336/EWG); (72/23/EWG); CE

### Dimensions

Length A x width B (mm)

122\*109

### Information

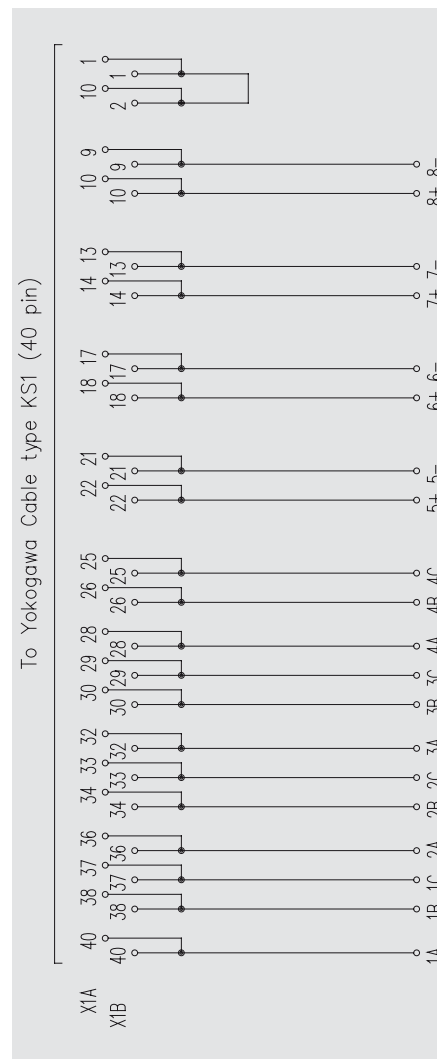
## Ordering data


Type	Order no.
TBY-C3-AIO8-KS AAI835	8824460000

### Information

## Accessories / Spare Parts

### Note

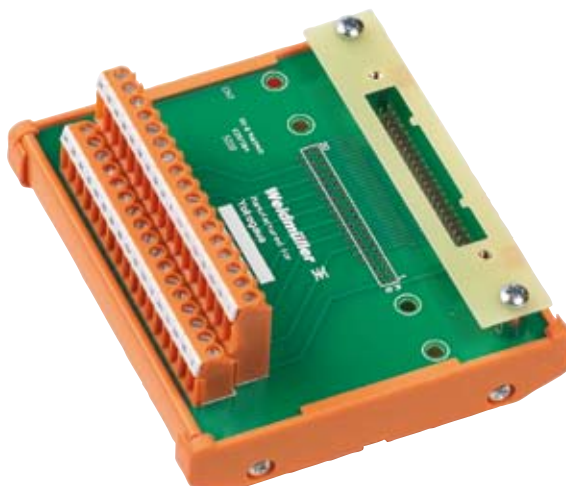




**Analogue input/output Module for connection to Yokogawa CS3000 card AAP841**

**CS3000 AAI841 8AI / AO**

- Terminals with screw connection.



**Technical data**

**Yokogawa card**

<b>Connection</b>
Connection to Yokogawa Card
Connection type (field)
Conductor size (field)
System connector redundancy

**Rated data**

Input/output signal
Capacitor/Resistor channel
Fuse per channel
LED status indication per channel

**Supply voltage**

Redundancy
Operating voltage
Supply current fuse
LED voltage status
Control relay (Alarm)/Contact

**General data**

Ambient temperature:
Storage temperature:
Certificación/Directives

**AAI841**

KS1 (40 poles)
Screw
0,5 ... 6mm <sup>2</sup> solid/ 0,5 ... 4mm <sup>2</sup> flexible
No

4 to 20mA
No
No
No

No
No
No
No
No

-25°C...50°C
-25°C...60°C
EN50082-2, EN50081-1, ASNZS 1044:1995, IEC 61373

**Dimensions**

Length A x width B (mm)
-------------------------

120*109
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**Information**

**Ordering data**

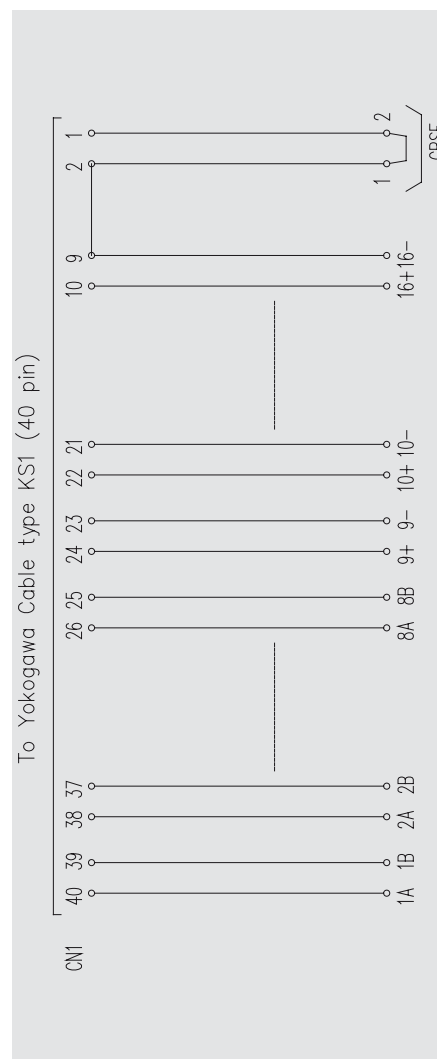
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<b>Type</b>	<b>Order no.</b>
TBY-C3-AI08-KS AAI8413	7940032826

**Information**

**Accessories / Spare Parts**

**Note**



## Inputs/outputs for CS3000 analog cards

### Analogue pulse input module for connection to Yokogawa CS3000 card AAP135

- Terminals with screw connection.

### CS3000 AAP135 8AI



#### Technical data

##### Yokogawa card

##### Connection

Connection to Yokogawa Card  
 Connection type (field)  
 Conductor size (field)  
 System connector redundancy

##### Rated data

Input/output signal  
 Capacitor/Resistor channel  
 Fuse per channel  
 LED status indication per channel

##### Supply voltage

Redundancy  
 Operating voltage  
 Supply current fuse  
 LED voltage status  
 Control relay (Alarm)/Contact

##### General data

Ambient temperature:  
 Storage temperature:  
 Certificación/Directives

##### AAP135

KS1 (40 poles)  
 Screw  
 0,5 ... 6mm<sup>2</sup> solid/ 0,5 ... 4mm<sup>2</sup> flexible  
 No

##### Pulse input

No

No

No

No

No

No

No

No

-25°C...50°C  
 -25°C...60°C  
 EN50082-2, EN50081-1, AS/NZS 1044:1995, IEC 61373

##### Dimensions

Length A x width B (mm)

145\*109

##### Information

#### Ordering data

##### Type

TBY-C3-AI8-KS AAP135

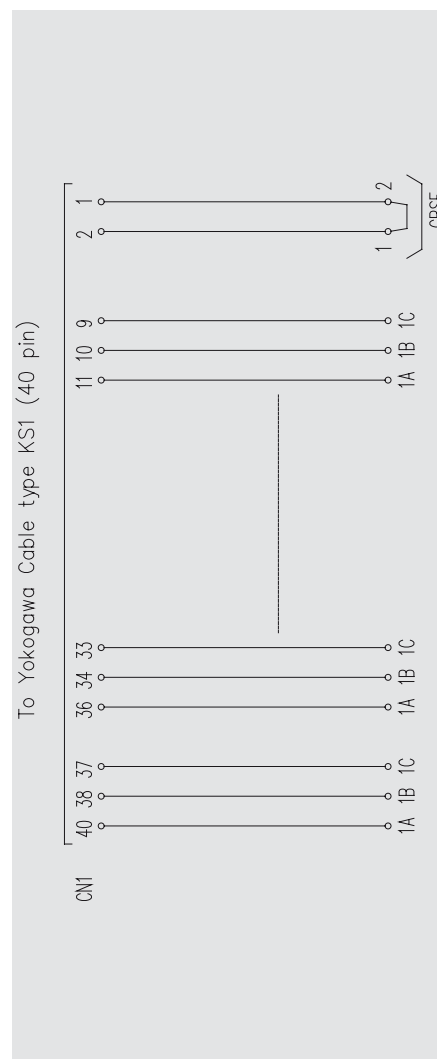
##### Order no.

7940000286

##### Information

#### Accessories / Spare Parts

##### Note



**Analogue RTD input module for connection to Yokogawa CS3000 card AAR145**

- Screw connection.

**CS3000 AAR145 12AI**



**Technical data**

**Yokogawa card**

**Connection**

Connection to Yokogawa Card  
 Connection type (field)  
 Conductor size (field)  
 System connector redundancy

**Rated data**

Input/output signal  
 Capacitor/Resistor channel  
 Fuse per channel  
 LED status indication per channel

**Supply voltage**

Redundancy  
 Operating voltage  
 Supply current fuse  
 LED voltage status  
 Control relay (Alarm)/Contact

**General data**

Ambient temperature:  
 Storage temperature:  
 Certificación/Directives

**AAR145**

KS1 (40 poles)  
 Screw clamp  
 0,5 ... 6mm<sup>2</sup> solid/ 0,5 ... 4mm<sup>2</sup> flexible  
 No

RTD input  
 No  
 No  
 No

No  
 No  
 No  
 No  
 No

-25°C...50°C  
 -25°C...60°C  
 EN50082-2, EN50081-1, ASNZS 1044:1995, IEC 61373

**Dimensions**

Length A x width B (mm)

145\*109

**Information**

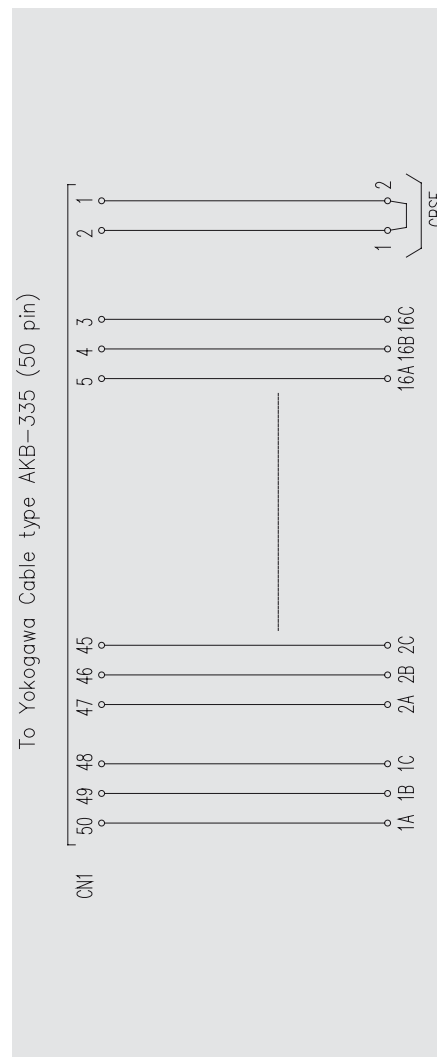
**Ordering data**

Type	Order no.
TBY-C3-AI12-KS AAR145	7940000285

**Information**

**Accessories / Spare Parts**

**Note**

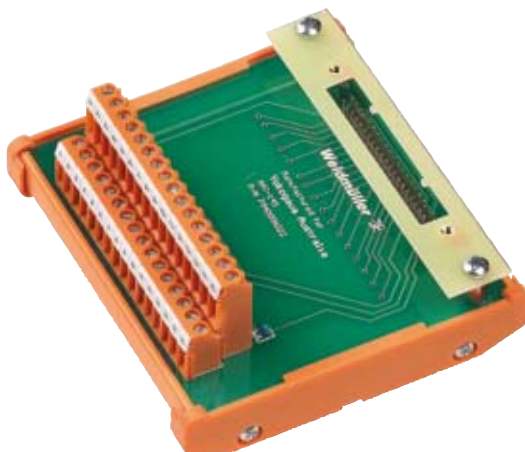


**Inputs/outputs for CS3000 analog cards**

**Analogue Thermocouple input module for connection to Yokogawa CS3000 card AAT145**

- Terminals with screw connection.

**CS3000 AAT145 16AI**



**Technical data**

**Yokogawa card**

<b>Connection</b>
Connection to Yokogawa Card
Connection type (field)
Conductor size (field)
System connector redundancy

**Rated data**

Input/output signal
Capacitor/Resistor channel
Fuse per channel
LED status indication per channel

**Supply voltage**

Redundancy
Operating voltage
Supply current fuse
LED voltage status
Control relay (Alarm)/Contact

**General data**

Ambient temperature:
Storage temperature:
Certificación/Directives

**AAT145**

KS1 (40 poles)
Screw
0,5 ... 6mm <sup>2</sup> solid/ 0,5 ... 4mm <sup>2</sup> flexible
No

**Rated data**

Thermocouple
No
No
No

**Supply voltage**

No
No
No
No
No

**Dimensions**

Length A x width B (mm)
-------------------------

**Information**

**Ordering data**

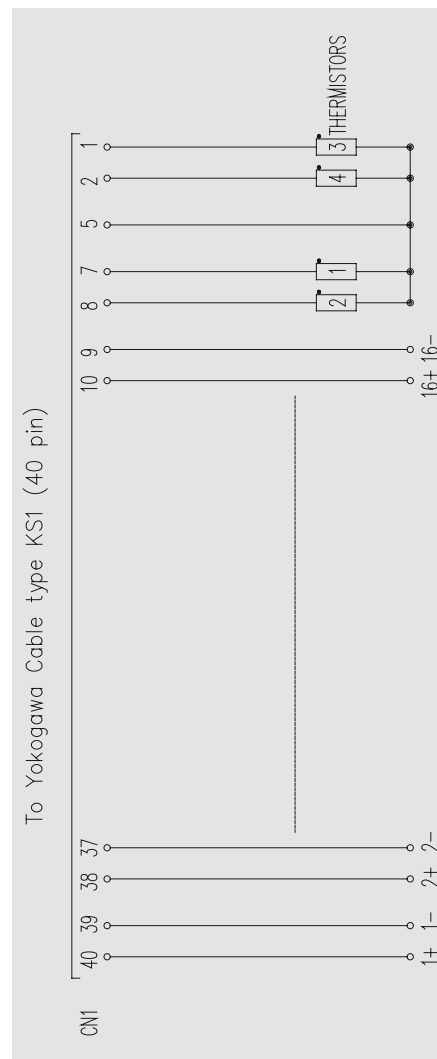
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**Information**

**Accessories / Spare Parts**

**Note**

Type	Order no.
TBY-C3-AI16-KS AAT145	7940006022



**Analogue input module for connection to Yokogawa CS3000 card AAT145 & AAI543**

- Terminals with screw connection.



**Technical data**

**Yokogawa card**

**Connection**  
 Connection to Yokogawa Card  
 Connection type (field)  
 Conductor size (field)  
 System connector redundancy

**Rated data**

Input/output signal  
 Capacitor/Resistor channel  
 Fuse per channel  
 LED status indication per channel

**Supply voltage**

Redundancy  
 Operating voltage  
 Supply current fuse  
 LED voltage status  
 Control relay (Alarm)/Contact

**General data**

Ambient temperature:  
 Storage temperature:  
 Certificación/Directives

**AAT145/AAI543**

KS1 (40 poles)  
 Screw  
 0,5 ... 6mm<sup>2</sup> solid/ 0,5 ... 4mm<sup>2</sup> flexible  
 No

Thermocouple / 4-20mA

No

No

No

No

No

No

No

No

-25°C...50°C  
 -25°C...60°C  
 EN50082-2, EN50081-1, ASNZS 1044:1995, IEC 61373

**Dimensions**

Length A x width B (mm)

120\*109

**Information**

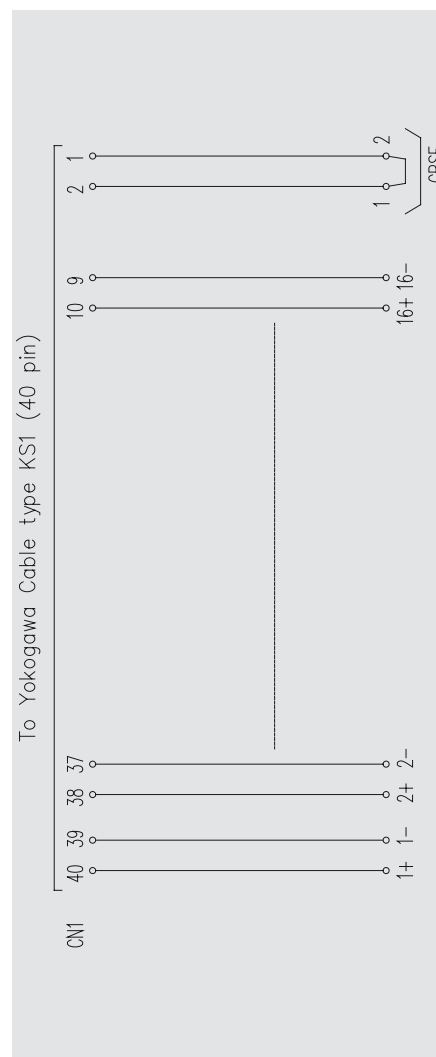
**Ordering data**

Type	Order no.
TBY-C3-AI16-KS AAT145/AAI543	7940005090

**Information**

**Accessories / Spare Parts**

**Note**



## Inputs/outputs for CS3000 analog cards

### Analogue input module for connection to Yokogawa CS3000 card AAT145 & AAI543

- Terminals with screw connection.
- Connects to Thermocouple & Analogue Card.
- Redundant system cable connection.



#### Technical data

##### Yokogawa card

##### Connection

Connection to Yokogawa Card  
 Connection type (field)  
 Conductor size (field)  
 System connector redundancy

##### Rated data

Input/output signal  
 Capacitor/Resistor channel  
 Fuse per channel  
 LED status indication per channel

##### Supply voltage

Redundancy  
 Operating voltage  
 Supply current fuse  
 LED voltage status  
 Control relay (Alarm)/Contact

##### General data

Ambient temperature:  
 Storage temperature:  
 Certification/Directives

##### Dimensions

Length A x width B (mm)

##### Information

#### Ordering data

##### Information

#### Accessories / Spare Parts

##### Note

##### AAT145/AAI543

KS1 (40 poles)  
 Screw  
 0,5 ... 6mm<sup>2</sup> solid/ 0,5 ... 4mm<sup>2</sup> flexible  
 Yes

Thermocouple / 4-20mA

No

No

No

No

No

No

No

No

-25°C...50°C

-25°C...60°C

EN50082-2, EN50081-1, ASNZS 1044:1995, IEC 61373

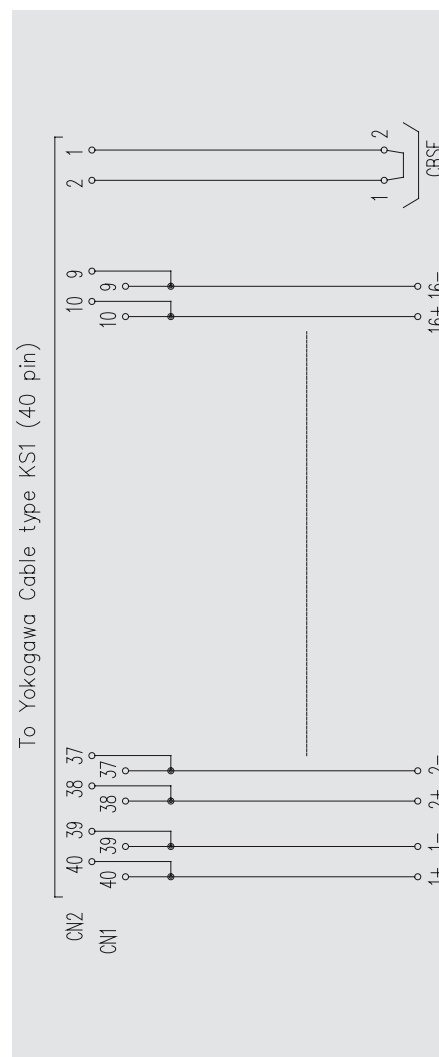
120\*109

##### Type

TBY-C3-AI16-KS AAT145/AAI543

##### Order no.

7940025902



## Yokogawa Module overview-for PROSAFE-RS cards

Yokogawa Card		Functionalities										Modules		
CARD	N° type of channels	DCS Connection		Field Connection		1 LED per channel	Fuse per channel	Capacitor	HART connection	Power supply redundancy	Alarm	Order no	Type	Page
		KS1 (40 poles)	AKB331 (50 poles)	Screw	Tension clamp									
<b>SAI143</b>	16AI	2							YES	NO	NO	<b>8856660000</b>	TBY-RS-AI16-KS SAI 143	E2
<b>SAV144</b>	16AI	2							YES	YES	YES	<b>8856640000</b>	TBY-RS-AI16V-KS SAV 144	E3
<b>SDV114</b>	16DI		2							YES	YES	<b>8856630000</b>	TBY-RS-DI16-AKB SDV 144	E4
<b>SDV531</b>	8DO		2							YES	YES	<b>8856650000</b>	TBY-RS-D08-AKB SDV531	E5

**Analog input for PROSAFE cards**

**16 channel analog input module for connection to Yokogawa PROSAFE RS SAV144**

- Power supply indication.
- Redundant power supply with 2 monitored voltage.
- Terminals with tension clamp.
- Indication LED for each channel.
- Redundant system cable connection.

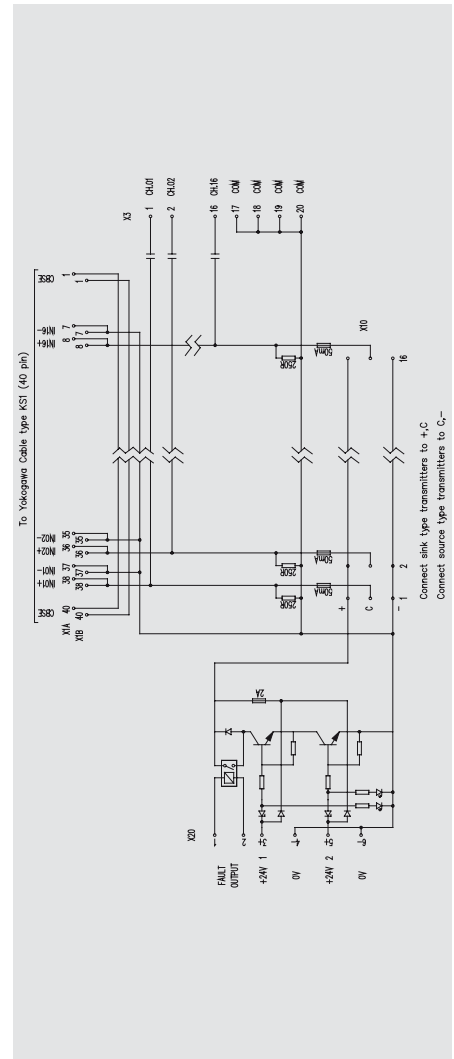
**PROSAFE RS SAV144 16AI**



**Technical data**

<b>Yokogawa card</b>	
<b>Connection</b>	
Connection to Yokogawa Card	
Connection type (field)	
Conductor size (field)	
System connector redundancy	
<b>Rated data</b>	
Input/output signal	
Capacitor/Resistor channel	
Fuse per channel	
LED status indication per channel	
<b>Supply voltage</b>	
Redundancy	
Operating voltage	
Supply current fuse	
LED voltage status	
Control relay (Alarm)/Contact	
<b>General data</b>	
Ambient temperature:	
Storage temperature:	
Certification/Directives	
<b>Dimensions</b>	
Length A x width B (mm)	
<b>Information</b>	
<b>Ordering data</b>	
<b>Information</b>	
<b>Accessories</b>	
<b>Note</b>	

<b>SAV144</b>	
KS1 (40 poles)	
Tension clamp	
0,5 ... 2,5mm <sup>2</sup> solid/ 0,5 ... 1,5mm <sup>2</sup> flexible	
Yes	
4 to 20mA	
4,7uF/250R	
50mA 5x20mm	
No	
Yes	
21...26,4 VDC	
2A 5x20mm	
Green each supply has its own power	
Yes / 1NO 24VDC 2...100mA	
-25°C... 70°C	
-40°C ... 85°C	
EN61000-6-2 ; DIN EN60664-1 ; (B9/336/EWG); (72/23/EWG) ;CE	
<b>Type</b>	<b>Order no.</b>
TBY-RS-AI16V-KS SAV144	8856640000
Fus 2A 5x20 0430900000	
Fus 50 mA 5x20mm	

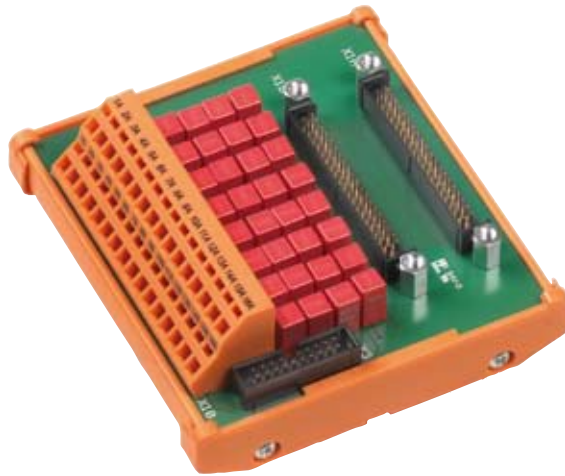




**16 channel analog input module for connection to Yokogawa PROSAFE RS SAI143**

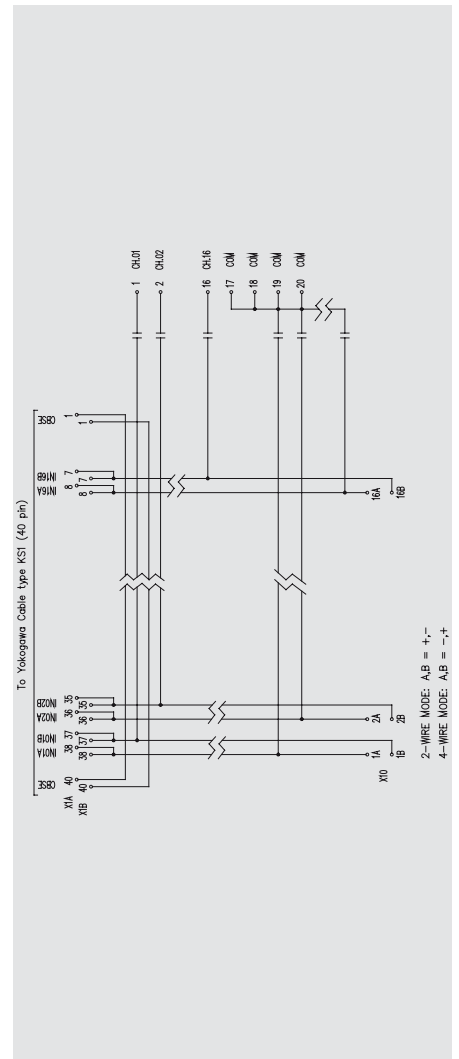
- Power supply indication.
- Redundant power supply with 2 monitored voltage.
- Terminals with tension clamp.
- Indication LED for each channel.
- Redundant system cable connection.

**PROSAFE RS SAI143 16AI**



**Technical data**

<b>Yokogawa card</b>	<b>SAI143</b>
<b>Connection</b>	
Connection to Yokogawa Card	KS1 (40 poles)
Connection type (field)	Tension clamp
Conductor size (field)	0,5 ... 2,5mm <sup>2</sup> solid/ 0,5 ... 1,5mm <sup>2</sup> flexible
System connector redundancy	Yes
<b>Rated data</b>	
Input/output signal	4 to 20mA
Capacitor/Resistor channel	4,7uF/NO
Fuse per channel	No
LED status indication per channel	No
<b>Supply voltage</b>	
Redundancy	No
Operating voltage	No
Supply current fuse	No
LED voltage status	No
Control relay (Alarm)/Contact	No
<b>General data</b>	
Ambient temperature:	-25°C... 70°C
Storage temperature:	-40°C ... 85°C
Certification/Directives	EN61000-6-2 ; DIN EN60664-1 ; (89/336/EWG); (72/23/EWG) ;CE
<b>Dimensions</b>	
Length A x width B (mm)	122*109
<b>Information</b>	
<b>Ordering data</b>	
<b>Type</b>	<b>Order no.</b>
TBY-RS-AI16-KS SAI143	8856660000
<b>Information</b>	
<b>Accessories</b>	
<b>Note</b>	

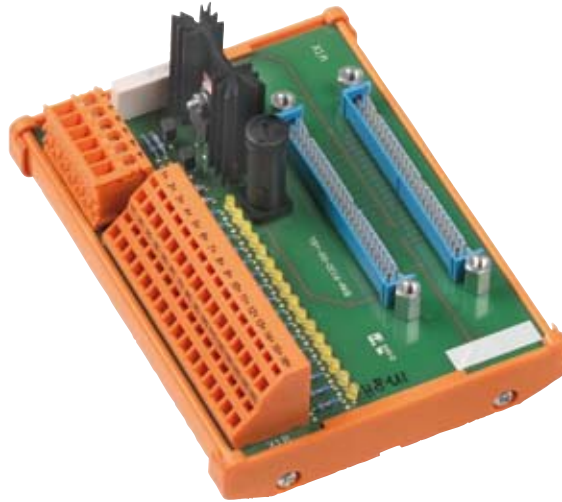


## Digital input for PROSAFE cards

### 16 channel digital input module for connection to Yokogawa PROSAFE RS SDV144

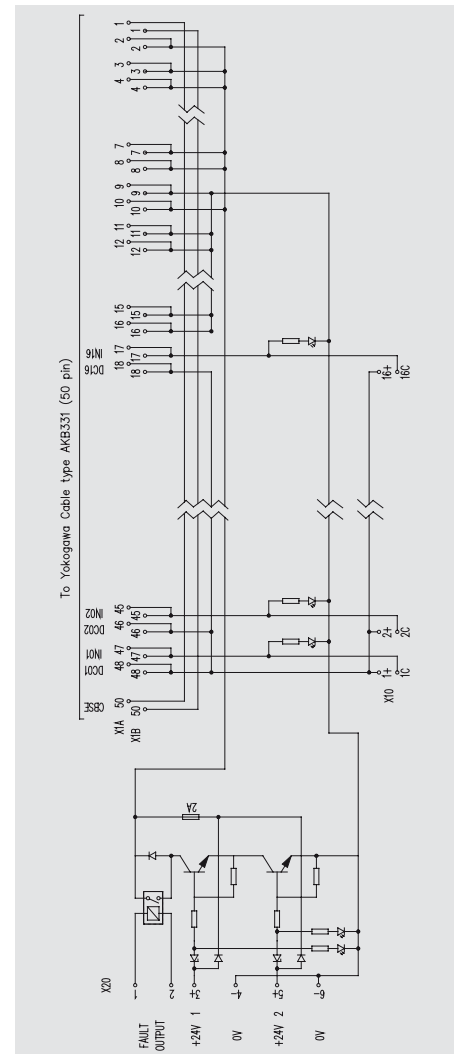
- Power supply indication.
- Redundant power supply with 2 monitored voltage.
- Terminals with tension clamp.
- Indication LED for each channel.
- Redundant system cable connection.

### PROSAFE RS SDV144 16DI



## Technical data

<b>Yokogawa card</b>	<b>SDV144</b>
<b>Connection</b>	
Connection to Yokogawa Card	AKB331 (50 poles)
Connection type (field)	Tension clamp
Conductor size (field)	0,5 ... 2,5mm <sup>2</sup> solid/ 0,5 ... 1,5mm <sup>2</sup> flexible
System connector redundancy	Yes
<b>Rated data</b>	
Operating voltage	18,6...26,4 VDC
Fuse per channel	No
LED status indication per channel	Yellow
<b>Supply voltage</b>	
Redundancy	Yes
Operating voltage	18,6...26,4 VDC
Supply current fuse	2A 5x20mm
LED voltage status	Green, each supply has its own power
Control relay (Alarm)/Contact	Yes/ 1NO 24VDC 2...100mA
<b>General data</b>	
Ambient temperature:	-25°C... 70°C
Storage temperature:	-40°C ... 85°C
Certification/Directives	EN61000-6-2 ; DIN EN60664-1 ; (89/336/EWG); (72/23/EWG) ;CE
<b>Dimensions</b>	
Length A x width B (mm)	142*109
<b>Information</b>	
<b>Ordering data</b>	
	<b>Type</b> <b>Order no.</b>
	TBY-RS-DI16-AKB SDV144 <b>8856630000</b>
<b>Information</b>	
<b>Accessories</b>	
<b>Note</b>	Fus 2A 5x20 0430900000



## Digital output for PROSAFE cards

### 8 channel digital output module for connection to Yokogawa PROSAFE RS SDV531

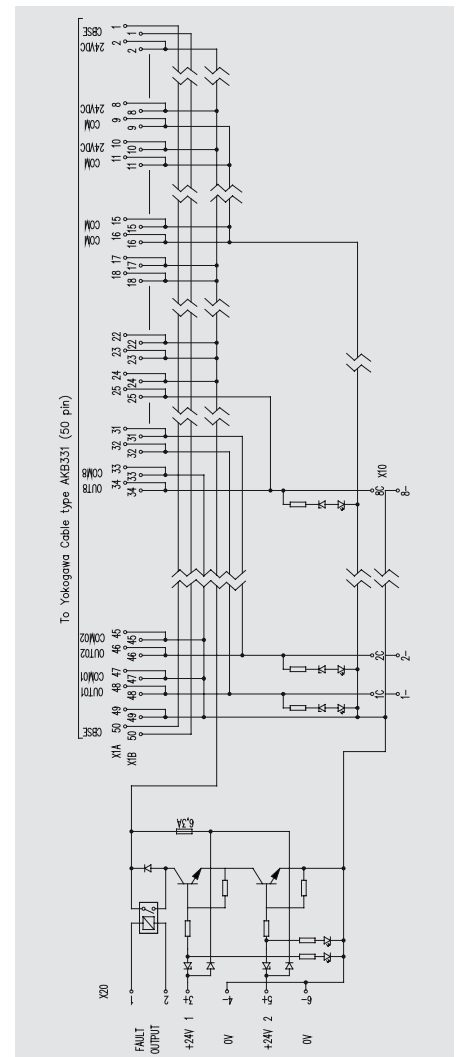
- Power supply indication.
- Redundant power supply with 2 monitored voltage.
- Terminals with tension clamp.
- Indication LED for each channel.
- Redundant system cable connection.

### PROSAFE RS SDV531



## Technical data

<b>Yokogawa card</b>	SDV531
<b>Connection</b>	
Connection to Yokogawa Card	AKB331 (50 poles)
Connection type (field)	Tension clamp
Conductor size (field)	0,5 ... 2,5mm <sup>2</sup> solid/ 0,5 ... 1,5mm <sup>2</sup> flexible
System connector redundancy	Yes
<b>Rated data</b>	
Operating voltage	21...26,4 VDC
Max. current per channel	
Fuse per channel	No
LED status indication per channel	Yellow
<b>Supply voltage</b>	
Redundancy	Yes
Operating voltage	21...26,4 VDC
Supply current fuse	6,3A
LED voltage status	Green each supply has its own power
Control relay (Alarm)/Contact	Yes/ 1NO 24VDC 2...100mA
<b>General data</b>	
Ambient temperature:	-25°C... 70°C
Storage temperature:	-40°C ... 85°C
Certification/Directives	EN61000-6-2 ; DIN EN60664-1 ; (89/336/EWG); (72/23/EWG) ;CE
<b>Dimensions</b>	
Length A x width B (mm)	140*109
<b>Information</b>	
<b>Ordering data</b>	
<b>Type</b>	<b>Order no.</b>
TBY-RS-DO8-AKB-SDV531	8856650000
<b>Information</b>	
<b>Accessories</b>	
<b>Note</b>	Fus 6,3A 5x20 0431400000











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Order number: