# General Specifications

ARM15A, ARM55□, ARS15B, ARS15M, ARS55M Relay Boards (for FIO)



GS 33K50H60-50E

[Release 5]

#### **■ GENERAL**

This document describes the specifications of relay board used in FIO subsystem of CENTUM VP. Relay input/output boards are connected in between digital input/output modules (for FIO) and field devices. Relay input boards receive contact signals or voltage input signals of field devices. Relay output boards receive output signals of the digital output module and amplify by the relay, and then output to field devices. These relay boards support dual-redundant digital input/output modules (for FIO).

#### ■ STANDARD SPECIFICATIONS

#### Relay Boards

Models	Descriptions	Contact Points	Terminals	Signal Cables	Connectable Digital I/O Modules				
		Points			Modules	Terminal Blocks			
ARM15A		32-point	M4 screws	AKB331 (for 32-point)	ADV151	ATD5A			
ARIVITSA		32-point	IVI4 SCIEWS	AKB337 (for 64-point)	ADV161	-			
ARM55D		32-point	M4 screws	AKB331 (for 32-point)	ADV551	ATD5A			
ARIVIOOD		32-point	IVI4 SCIEWS	AKB337 (for 64-point)	ADV561	-			
ARM55W		22 point	M4 screws	AKB331 (for 32-point)	ADV551	ATD5A			
ARIVIOSVV	Mechanical Relay Board	32-point	IVI4 SCIEWS	AKB337 (for 64-point)	ADV561	-			
ARM55T		32-point	M4 screws	AKB331 (for 32-point)	ADV551	ATD5A			
ARIVIOU		32-point	IVI4 SCIEWS	AKB337 (for 64-point)	ADV561	-			
			M3.5 screws	AKB331 (for 32-point)	ADV551	ATD5A			
ARM55C		32-point	(M4 in power input part)	AKB337 (for 64-point)	ADV561	-			
ARS15B-5 (48 V DC)		32-point	M4 screws	AKB331 (for 32-point)	ADV151	ATD5A			
ARS15B-6 (110 V DC)		32-point	IVI4 SCIEWS	AKB337 (for 64-point)	ADV161	-			
ARS15M-1 (100 V AC)			Pressure clamp	AKB331 (for 32-point)	ADV151	ATD5A			
ARS15M-2 (220 V AC) ARS15M-3 (10 - 30 V DC)	Solid State Relay Board	32-point	terminals	AKB337 (for 64-point)	ADV161	-			
ARS55M-1 (100 V AC)			Pressure clamp	AKB331 (for 32-point)	ADV551	ATD5A			
ARS55M-2 (220 V AC) ARS55M-3 (5 - 60 V DC)		32-point	terminals	AKB337 (for 64-point)	ADV561	-			



## • Relay Boards Detail Specifications

## **Mechanical Relay Boards (Contact Input)**

Model	ARM15A
Usage	Mechanical Relay Contact Input (Single / Dual-redundant)
Contact Points	32-point
Terminals for Field Device Connection	M4 screws
Modules	ADV151 (DI: 32-point) + ATD5A (Terminal block) ADV161 (DI: 64-point) (*1)
Signal Cables	AKB331 (for 32-point) AKB337 (for 64-point)
Contact Input Signal	ON signal: $150~\Omega$ or less OFF signal: At least $200~\kappa\Omega$
External Contact Rating (Minimum Load)	24 V DC, 13 mA (*3)
Power Supply Voltage and Current Consumption of Internal Circuit (require external power supply)	24 V DC Max. 0.32 A
Power Supply for Field Device (require external power supply)	Dual-line (supply power per 16-point) 24 V DC: Max. 0.3 A per one line
Insulation Resistance	At least 10 MΩ (500 V DC)
Withstanding Voltage	Between field device terminals and cases: 1.5 kV Between 24 V power terminals and cases: 500 V Between 24 V power terminals and field device terminals: 1.5 kV
Ambient Temperature and Humidity	0 to 50 °C, 10 to 90 %RH
Standards	EMC standards [CE Marking], [C-Tick Marking], [KC Marking] (*2)
Size	W: 482.6 mm x H: 132.5 mm (3U)
Weight	2.2 kg

Two sets of relay board (ARM15A) and two sets of signal cable (AKB337) are required for one ADV161. ARM15A is out of scope of the Safety Standards. It is voltage/current that ARM15A applies to the external contact power supply.

<sup>\*1:</sup> \*2: \*3:

## **Mechanical Relay Boards (Contact Output)**

Models	ARM55D	ARM55W ARM55T (with switch)	ARM55C
Usage	Mechanical Relay Dry Contact Output ("a" contact (NO)) (Single / Dual-redundant)	Mechanical Relay Wet Contact Output (Single / Dual-redundant) AUTO/OFF/ON switch (only for ARM55T)	Mechanical Relay Dry Contack Output ("a" contact or "b" contact (NO or NC)) (Single / Dual-redun or dant) (*6)
Contact Points	32-point	32-point	32-point
Terminals for Field Device Connection	M4 screws	M4 screws	M3.5 screws (*5) (M4 in power input part)
Modules	ADV551 (DO: 32-point) + ATD5A (Terminal block) ADV561 (DO: 64-point) (*1)	ADV551 (DO: 32-point) + ATD5A (Terminal block) ADV561 (DO: 64-point) (*1)	ADV551 (DO: 32-point) + ATD5A (Terminal block) ADV561 (DO: 64-point) (*1)
Signal Cables	AKB331 (for 32-point) AKB337 (for 64-point)	AKB331 (for 32-point) AKB337 (for 64-point)	AKB331 (for 32-point) AKB337 (for 64-point)
Maximum Load (*2)	250 V AC: 2 A per point 30 V DC: 2 A per point 125 V DC: 0.1 A per point (*3)	250 V AC: 0.6 A per point 30 V DC: 0.6 A per point 125 V DC: 0.1 A per point (*3)	30 V DC: 1.5 A per point
Minimum Load	5 V, 10 mA	5 V, 10 mA	5 V, 10 mA
Power Supply Voltage and Current Consumption of Internal Circuit (require external power supply)	24 V DC Max. 0.65 A	24 V DC Max. 0.65 A	24 V DC Max. 0.85 A
Power Supply for Field Device (require external power supply)	-	Dual-line (supply power per 16- point) 250 V AC: Max. 9.6 A 30 V DC: Max. 9.6 A 125 V DC: Max. 1.6 A	-
Insulation Resistance	At least 10 MΩ (500 V DC)	At least 10 MΩ (500 V DC)	At least 10 MΩ (500 V DC)
Withstanding Voltage	Between field device terminals and cases: 2 kV Between 24 V power terminals and cases: 500 V Between 24 V power terminals and field device terminals: 2 kV	Between field device terminals and cases: 2 kV Between 24 V power terminals and cases: 500 V Between 24 V power terminals and field device terminals: 2 kV	Between field device terminals and cases: 2 kV Between 24 V power terminals and cases: 500 V Between 24 V power terminals and field device terminals: 2 kV
Ambient Temperature and Humidity	0 to 50 °C, 10 to 90 %RH	0 to 50 °C, 10 to 90 %RH	0 to 50 °C, 10 to 90 %RH
Standards	Safety Standard [CE Marking], [CSA] (*3) EMC standards [CE Marking], [C-Tick Marking], [KC Marking]	Safety Standard [CE Marking], [CSA] (*3) EMC standards [CE Marking], [C-Tick Marking], [KC Marking]	EMC standards [CE Marking], [C-Tick Marking], [KC Marking] (*4)
Size	W: 482.6 mm x H: 132.5 mm (3U)	W: 482.6 mm x H: 177 mm (4U)	W: 482.6 mm x H: 132.5 mm (3U)
Weight	2.2 kg	2.6 kg	2.2 kg

- Two sets of relay board (ARM55D, ARM55W, ARM55T, or ARM55C) and two sets of signal cable (AKB337) are required for \*1: one ADV561.
- \*2: \*3: For inductive loads, connect a spark killer (CR network for AC; diode for DC) in parallel with loads.
- For DC, 30 V or less is the requirement for the Safety Standard. ARM55C is out of scope of the Safety Standards. The applicable size of solderless lug is described below.
- \*4:

#### [Solderless Lug Dimensions]

-	_		-			
Nominal cross sectional area (mm²)	Screw used (mm)	Hole diameter (mm)	Lug outside diameter (mm)	Lug length (mm)	Insulation covering inside diameter (mm)	Dimen- sion "C" (mm)
1.25	3.5	3.7 or more	6.8 or less	Approx. 21	3.6 or more	4.0 or more
2.0	3.5	3.7 or more	6.8 or less	Approx. 21	4.3 or more	4.0 or more

<sup>[</sup>Solderless Lug] Insulation covering inside Hole diameter diameter Lug length Lug outside diameter F14E.ai

Select either "a" contact or "b" contact.

## Solid State Relay Boards (Contact Input)

Models	ARS15B-5 (48 V DC), ARS15B-6 (110 V DC)
Usage	Solid State Relay Contact Input (Single / Dual-redundant)
Contact Points	32-point
Terminals for Field Device Connection	M4 screws
Modules	ADV151 (DI: 32-point) + ATD5A (Terminal block) ADV161 (DI: 64-point) (*1)
Signal Cables	AKB331 (for 32-point) AKB337 (for 64-point)
Contact Input Signal	ON signal: $200~\Omega$ or less OFF signal: At least $200~\kappa\Omega$
External Contact Rating	ARS15B-5 (48 V DC): At least 60 V DC, 20 mA ARS15B-6 (110 V DC): At least 140 V DC, 20 mA
Power Supply Voltage and Current Consumption of Internal Circuit (require external power supply)	24 V DC Max. 0.32 A
Power Supply for Field Device (require external power supply)	Dual-line (supply power per 32-point) ARS15B-5 (48 V DC): 48 V DC; Max. 0.5 A per one line ARS15B-6 (110 V DC): 110 V DC; Max. 0.4 A per one line
Insulation Resistance	At least 10 MΩ (500 V DC)
Withstanding Voltage	Between field device terminals and cases: 2 kV Between 24 V power terminals and cases: 500 V Between 24 V power terminals and field device terminals: 2 kV
Ambient Temperature and Humidity	0 to 50 °C, 10 to 90 %RH
Standards	ARS15B-5 (48 V DC) (*2): EMC standards [CE Marking], [C-Tick Marking], [KC Marking] ARS15B-6 (110 V DC): Safety standard [CSA], EMC standards [C-Tick Marking], [KC Marking]
Size	W: 482.6 mm x H: 132.5 mm (3U)
Weight	2.5 kg

Two sets of relay board (ARS15B-5, or ARS15B-6) and two sets of signal cable (AKB337) are required for one ADV161. ARS15B-5 is out of scope of the Safety Standards. \*1: \*2:

## Solid State Relay Boards (Voltage Input)

Models	ARS15M-1 (100 V AC), ARS15M-2 (220 V AC), ARS15M-3 (10 - 30 V DC)
Usage	Solid State Relay Voltage Input, Module type (Single / Dual-redundant)
Contact Points	32-point
Terminals for Field Device Connection	Pressure clamp terminals Cable specifications: see the table of terminal treatment for the pressure clamp terminal signal line and power line.
Modules	ADV151 (DI: 32-point) + ATD5A (Terminal block) ADV161 (DI: 64-point) (*1)
Signal Cables	AKB331 (for 32-point) AKB337 (for 64-point)
Contact Input Signal	ARS15M-1 (100 V AC) ON signal: 90 to 140 V AC OFF signal: 45 V AC or less ARS15M-2 (220 V AC) ON signal: 180 to 250 V AC OFF signal: 45 V AC or less ARS15M-3 (10 - 30 V DC) ON signal: 10 to 30 V DC OFF signal: 1 V DC or less
External Contact Rating	-
Power Supply Voltage and Current Consumption of Internal Circuit (require external power supply)	24 V DC Max. 1.0 A
Power Supply for Field Device	-
Insulation Resistance	At least 10 MΩ (500 V DC)
Withstanding Voltage	Between 24 V power terminals and field device terminals: 2 kV
Ambient Temperature and Humidity	0 to 50 °C, 10 to 90 %RH
Standards	ARS15M-1 (110 V AC): Safety standard [CSA], EMC standards [C-Tick Marking], [KC Marking] ARS15M-2 (220 V AC): Safety standard [CSA], EMC standards [C-Tick Marking], [KC Marking] ARS15M-3 (10 - 30 V DC): Safety standard [CE Marking], [CSA], EMC standards [CE Marking], [C-Tick Marking], [KC Marking]
Size	W: 436 mm x H: 125.4 mm
Weight	3.0 kg

<sup>\*1:</sup> Two sets of relay board (ARS15M-1, ARS15M-2, or ARS15M-3) and two sets of signal cable (AKB337) are required for one ADV161.

## Solid State Relay Boards (Voltage Output)

Models	ARS55M-1 (100 V AC)	ARS55M-2 (220 V AC)	ARS55M-3 (5 - 60 V DC)										
Usage	Solid State Relay TRIAC Output,	Transistor output (Single / Dual-re-	dundant)										
Contact Points	32-point												
Terminals for Field Device Connection	Pressure clamp terminals Cable specifications: see the tabl and power line.	e of terminal treatment for the pres	ssure clamp terminal signal line										
Modules	ADV551 (DO: 32-point) + ATD5A (Terminal block) ADV561 (DO: 64-point) (*1)												
Signal Cables	AKB331 (for 32-point) AKB337 (for 64-point)												
Output Voltage/Current Range (*2)  Power Supply Voltage and	24 to 140 V AC  30 mA to 2.5 A (Ambient temperature is under 20 °C) 30 mA to 2 A (at 20 to 35 °C) 30 mA to 1.5 A (at 35 to 40 °C) 30 mA to 1.3 A (at 40 to 50 °C) Inductive load must be 1.5 A or less, even when ambient temperature is under 35 °C.	24 to 250 V AC  30 mA to 2.5 A (Ambient temperature is under 20 °C) 30 mA to 2 A (at 20 to 35 °C) 30 mA to 1.5 A (at 35 to 40 °C) 30 mA to 1.3 A (at 40 to 50 °C) Inductive load must be 1.5 A or less, even when ambient temperature is under 35 °C.	5 to 60 V DC  20 mA to 2.5 A (Ambient temperature is under 20 °C) 20 mA to 2 A (at 20 to 35 °C) 20 mA to 1.3 A (at 35 to 50 °C)  Inductive load must be 1.5 A or less.										
Current Consumption of Internal Circuit (require external power supply)	24 V DC Max. 0.9 A												
Power Supply for Field Device	-												
Insulation Resistance	At least 10 MΩ (500 V DC)												
Withstanding Voltage	Between 24 V power terminals ar	nd field device terminals: 2 kV											
Ambient Temperature and Humidity	0 to 50 °C, 10 to 90 %RH												
Standards	Safety standard [CSA], EMC star	ndards [C-Tick Marking], [KC Marki	ing]										
Size	W: 436 mm x H: 125.4 mm												
Weight	3.0 kg												

<sup>\*1:</sup> Two sets of relay board (ARS55M-1, ARS55M-2, or ARS55M-3) and two sets of signal cable (AKB337) are required for one ADV561

## Table: Terminal Treatment for Pressure Clamp Terminal Signal Line

	Cable Thickness (mm²)	Peel-off Length (mm)	Inserting Part of Sleeve (mm)
Without Sleeves	0.5 to 2 (AWG20 to 14)	8	-
With Sleeves	0.5 to 2 (AWG20 to 14)	8	8

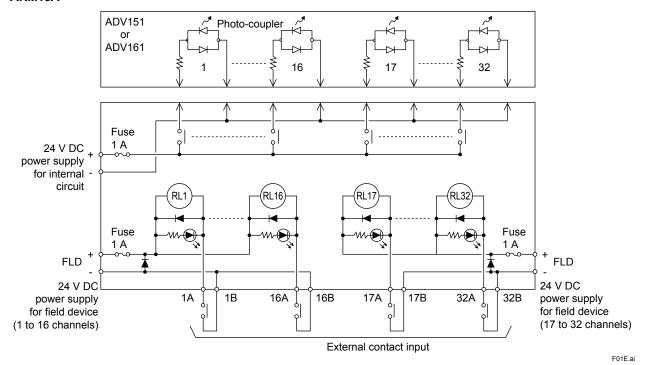
## Table: Terminal Treatment for Pressure Clamp Terminal Power Line

	Cable Thickness (mm²)	Peel-off Length (mm)	Inserting Part of Sleeve (mm)
Without Sleeves	0.5 to 2 (AWG20 to 14)	9	_
With Sleeves	0.5 to 1.5 (AWG20 to 16)	9	8

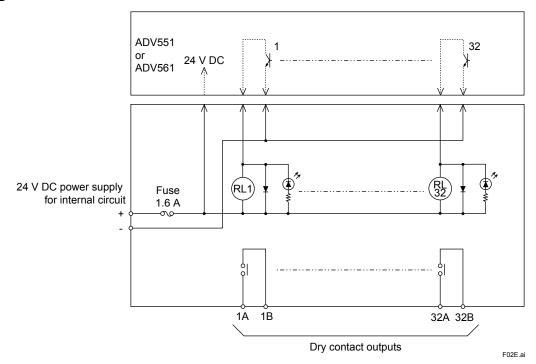
<sup>\*2:</sup> For inductive loads, connect a spark killer (CR network for AC; diode for DC) in parallel with loads.

# ● Relay Input/Output Board Circuit Diagram

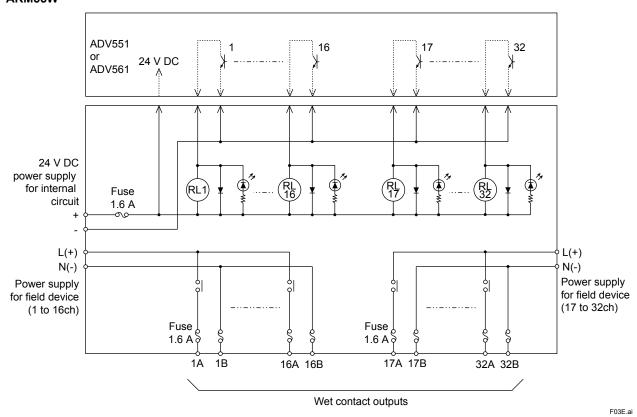
## ARM15A



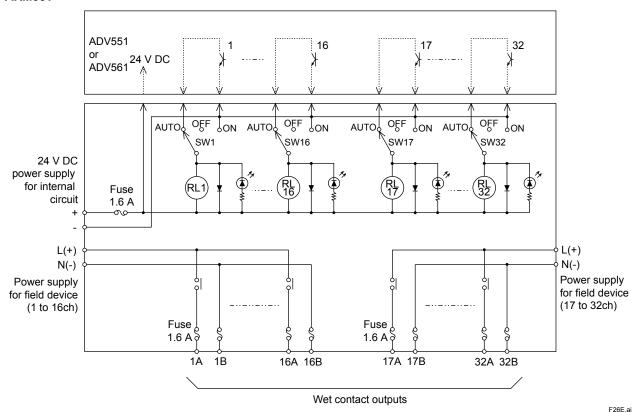
#### ARM55D



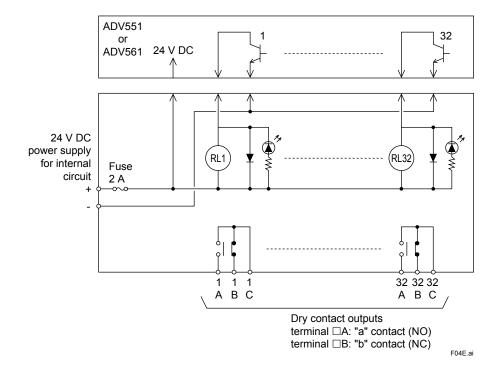
## ARM55W



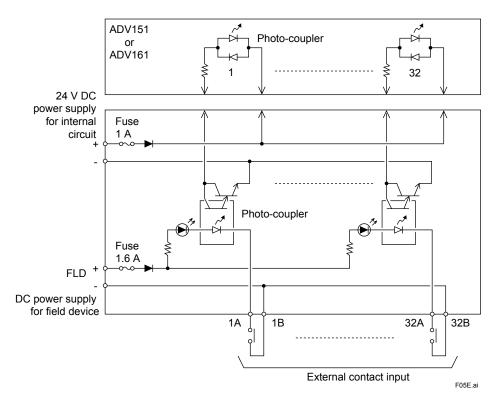
#### ARM55T



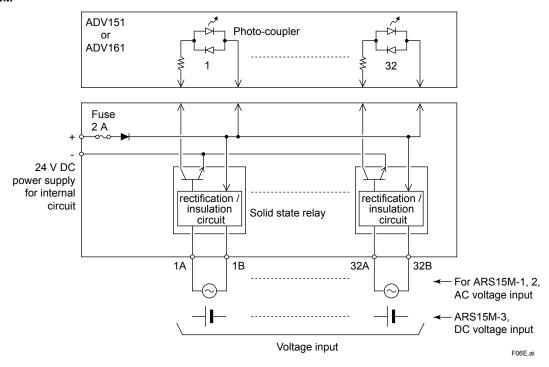
## ARM55C



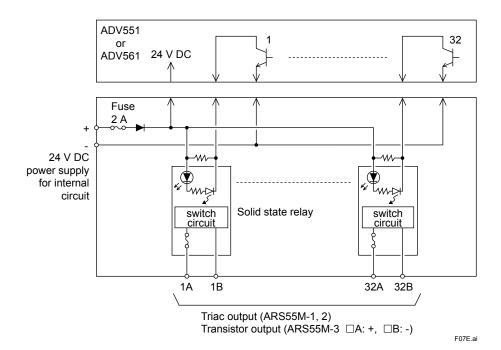
## ARS15B



## ARS15M

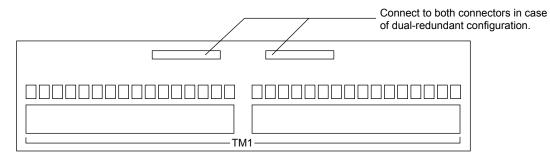


## ARS55M



## • Terminals for Field Device Connection

## ARM15A



## TM1 (Left side)

Signal name	LL (-	+) IN	I1A	IN2A	IN3	A IN	4A IN	N5A	IN6A	IN7A	. IN	A8	IN9A	IN1	0A IN1	1A IN	12A IN	113A	IN14A	IN15	5A IN1	6A	N.C.	
Terminal	FLD	(+) 1	IA	2A	3A	4,	A :	5A	6A	7A	8.	Α	9A	10	A 11	A 1	2A 1	13A	14A	15	A 16	6A	NC	
No.		FLD(-)	16	3 2	2B	3B	4B	5E	6	В .	7B	8E	3 9	9В	10B	11B	12B	13	3B 1	4B	15B	16	B N	C
Signal name	_	LN (-)	IN <sup>2</sup>	1B II	N2B	N3B	IN4B	IN5	B IN	3B II	N7B	IN8	B IN	19B	IN10B	IN11E	3 IN12	B IN1	I3B IN	114B	IN15B	IN1	6B N.	.C.

## TM1 (Right side)

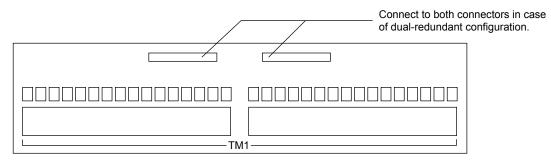
Signal name	RL	(+) IN	117A	IN18	A IN1	9A IN2	20A IN	N21A	IN22A	N2	3A IN2	24A II	N25A	IN26	SA IN2	7A IN:	28A IN	29A I	N30A	IN31A	N32	2A 24	V
Terminal	FL	D(+) 1	7A	18/	19	A 20	DA 2	21A	22A	23	A 24	1A	25A	26/	A 27	'A 2	3A 2	9A	30A	31A	32	A -	+
No.		FLD(-	) 17	7B	18B	19B	20B	3 2	1B 2	22B	23B	248	3 2	5B	26B	27B	28B	291	30	)B 3	31B	32B	-
Signal name		RN (-	IN1	7B I	N18B	IN19B	IN20	B IN	21B IN	N22B	IN23B	IN24	B IN	25B I	IN26B	IN27B	IN28E	IN2	9B IN	30B II	N31B	IN32B	0 V

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Note: The terminal N.C. in the figure is an unused terminal; wiring is not required.

When connecting signals to adjacent terminals, make sure the insulation-covering parts of solderless lug do not overlap each other.

## ARM55D



## TM1 (Left side)

Signal name	OU 1A		OUT 2A	OUT 3A	OL 4		OUT 5A	OUT 6A	OUT 7A		UT BA	OUT 9A	Ol 10		OUT 11A	OI 12	UT 2A	OUT 13A	OUT 14A	OL 15		OUT 16A	N.C	C. N.	C.
Terminal	1A	. 2	2A	ЗА	4/	4	5A	6A	7A	8	3A	9A	10	Α	11A	12	2A	13A	14A	15	4	16A	NC	N	IC
No.		1B	28	3 :	3B	4B	5	В	BB	7B	81	3	9B	10	В 1	1B	12	3 13	B 1	4B	15E	3 16	В	NC	NC
Signal name		OUT 1B	OU 2E	JT C	UT 3B	OUT 4B	OL 51	JT O	UT ( B	OUT 7B	OU 8E		UT 9B	OL 10		OUT 11B	OU <sup>1</sup>			UT 4B	OU7 15B	T OI		N.C.	N.C.

## TM1 (Right side)

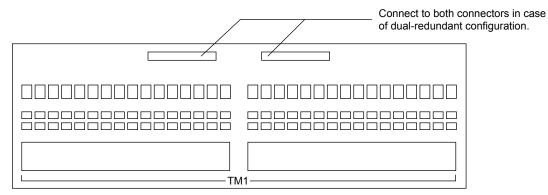
Signal name	OU7 17A		UT 8A	OUT 19A	OL 20		UT 1A	OUT 22A	OU 23		OUT 24A	OU <sup>2</sup>		UT 6A	OU 27/		UT 8A	OUT 29A	OUT 30A	Ol 31	JT IA	OU1 32A	N	C.	24 V	
Terminal	17A	. 18	8A	19A	20	A 2	1A	22A	23.	Α	24A	25/	A 2	6A	27 <i>F</i>	A 28	3A	29A	30A	31	Α	32A	N	С	+	
No.		17B	18E	3 19	9B	20B	21	В 2	2B	231	B 24	В	25B	26	В	27B	28	B 29	)B 3	0B	31	в	32B	NC	; .	-
Signal name	(	OUT 17B	OU <sup>1</sup> 18B	T O	UT 9B	OUT 20B	Ol 21		UT 2B	OU <sup>-</sup> 23E			OUT 25B	OL 26		OUT 27B	OL 28			UT 0B	OU 31		OUT B2B	N.C	. 0	V

F09E.ai

Note: The terminal N.C. in the figure is an unused terminal; wiring is not required.

When connecting signals to adjacent terminals, make sure the insulation-covering parts of solderless lug do not overlap each other.

## ARM55W, ARM55T



## TM1 (Left side)

Signal name	LL (+)	OUT 1A	OUT 2A	OUT 3A	OU <sup>-</sup>		UT SA	OUT 6A	OU 7A		TUC A8	OU 9A		DUT 10A	OUT 11A	OL 12		UT 3A	OUT 14A	OU <sup>-</sup> 15A			N.C.	
Terminal	L(+)	1A	2A	3A	44	١.	5A	6A	7,	4	8A	9,	A	10A	11A	. 12	A 1	ЗА	14A	15/	A 16	6A	NC	
No.	N	(-) 1	В 2	2B	3B	4B	5	В	6B	7B	8 8	ВВ	9B	10	0B _	11B	12B	13	3B 1	4B	15B	16	BN	1C
Signal name	L (-	N 0	• •	OUT ( 2B	OUT 3B	OUT 4B	OI 5		OUT 6B	OUT 7B		UT BB	OUT 9B		UT ( 0B	OUT 11B	OUT 12B	O 13		UT 4B	OUT 15B	OU 16	N	.C.

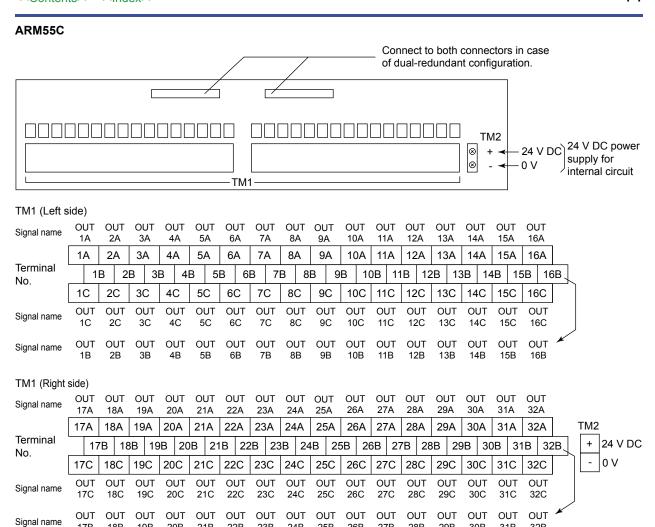
## TM1 (Right side)

Signal name	RL (+)		UT 7A	OUT 18A	OU 19/		JT )A	OUT 21A	OU <sup>*</sup> 22/		UT 3A	OUT 24A	OL 25		OUT 26A	OL 27		OUT 28A	OUT 29A	OU7 30A		UT 1A	OUT 32A	24	V	
Terminal	L(+	) 1	7A	18A	19/	A 20	)A	21A	22	A 2	3A	24A	25	5A	26A	27	Ά 2	28A	29A	30 <i>A</i>	3	1A	32A	+		
No.		N(-)	171	В 1	8B	19B	20	В 2	1B	22B	23	В 2	4B	25	В 2	26B	27E	28	B 2	9B :	30B	31	В	32B	-	
Signal name		RN (-)	OU	T 0	UT 8B	OUT 19B	OL		UT 1B	OUT	0U		UT 4R	OU 25		OUT PAR	OU7				OUT 30B	OL 31		UT 2B	0 V	

F10E.ai

Note: The terminal N.C. in the figure is an unused terminal; wiring is not required.

When connecting signals to adjacent terminals, make sure the insulation-covering parts of solderless lug do not overlap each other.



Note: When connecting signals to adjacent terminals, make sure the insulation-covering parts of solderless lug do not overlap

25B

26B

27B

28B

29B

30B

32B

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31B

18B

17B

19B

20B

21B

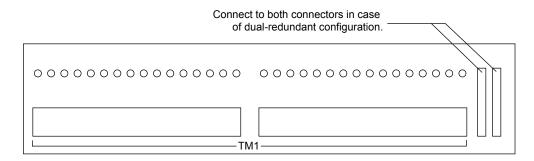
22B

23B

24B

F12E.ai

#### ARS15B



#### TM1 (Left side)

Signal name IN1A IN2A IN3A IN4A IN5A IN6A IN7A IN8A IN9A IN10A IN11A IN12A IN13A IN14A IN15A IN16A 1A 2A ЗА 4A 5A 6A 7A 8A 11A | 12A | 13A | 14A | 15A | 16A Terminal No FLD(-) 1B 2B 3B 4B 5B 6B 7B 8B 9B 10B 11B | 12B | 13B 14B | 15B | 16B Signal name IN1B IN2B IN3B IN4B IN5B IN6B IN7B IN8B IN9B IN10B IN11B IN12B IN13B IN14B IN15B IN16B

#### TM1 (Right side)

Signal name
Terminal No.

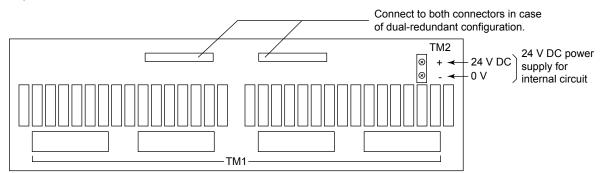
IN17A IN18A IN19A IN20A IN21A IN22A IN23A IN24A IN25A IN26A IN27A IN28A IN29A IN30A IN31A IN32A 24 V

17A 18A 19A 20A 21A 22A 23A 24A 25A 26A 27A 28A 29A 30A 31A 32A +

IN17B IN18B IN19B IN20B IN21B IN22B IN23B IN24B IN25B IN26B IN27B IN26B IN29B IN30B IN31B IN32B 0 V

Note: When connecting signals to adjacent terminals, make sure the insulation-covering parts of solderless lug do not overlap each other.

#### ARS15M, ARS55M



#### TM1

Signal name (ARS15M) (ARS55M)

IN1 IN<sub>2</sub> IN3 IN4 IN5 IN<sub>6</sub> IN7 IN8 OUT1 OUT4 OUT5 OUT6 OUT8 OUT2 OUT3 OUT7 5 6 8

A | B | A | B | A | B

Terminal No.
Signal name

(ARS15M) (ARS55M) Terminal No.

IN17 IN21 IN18 IN19 IN20 IN22 IN23 **IN24** OUT17 OUT18 OUT19 OUT20 OUT21 OUT22 OUT23 OUT24 18 19 20 21 22 23 24

A B A B A B A B A B A B A B A B

IN25 IN26 IN27 IN28 IN29 IN30 IN31 IN32 OUT25 OUT26 OUT27 OUT28 OUT29 OUT30 OUT31 OUT32 25 26 27 28 29 30 31 32 A B A B A B A B A B A B A B A B

Note: For ARS55M-3 and ARS15M-3, terminal number "A" is for "+", "B" is for "-."

A B A B A B A B

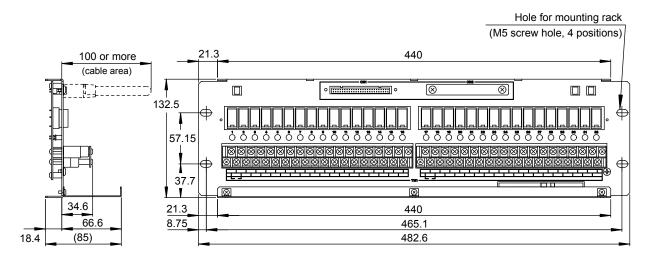
F13E.ai

## **■ EXTERNAL DIMENSIONS**

## • ARM15A

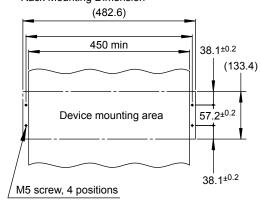
#### Other than /BR3

Unit: mm



**Rack Mounting Dimension** 

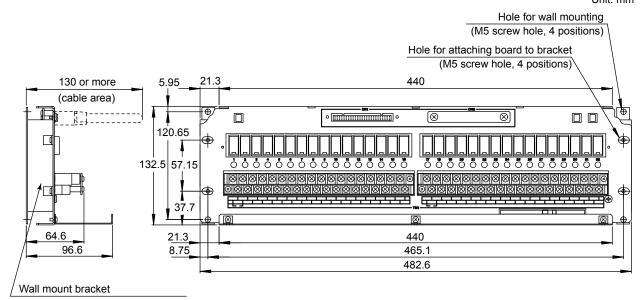
Weight: approx. 2.0 kg



F15E.ai

## For /BR3

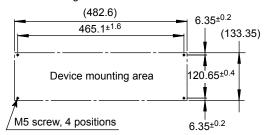
Unit: mm



Mount bracket first, and then board

Weight: approx. 2.2 kg

## Wall Mounting Dimension

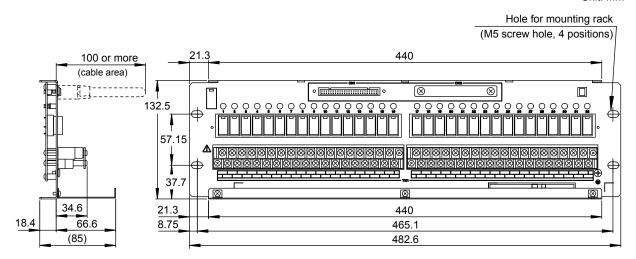


F16E.ai

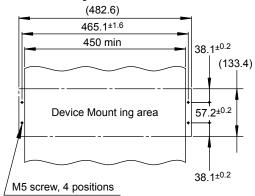
## • ARM55D

## Other than /BR3

Unit: mm



## **Rack Mounting Dimension**

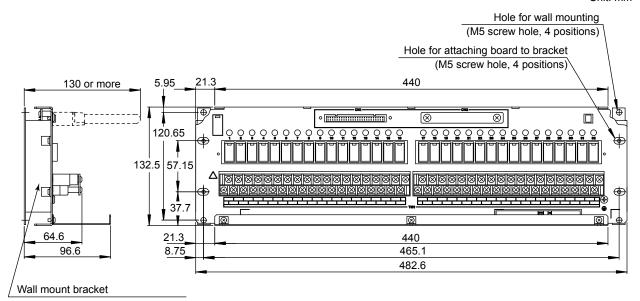


Weight: approx. 2.0 kg

F17E.ai

## For /BR3

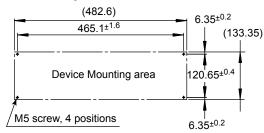
Unit: mm



Mount bracket first, and then board

Weight: approx. 2.2 kg

## Wall Mounting Dimension

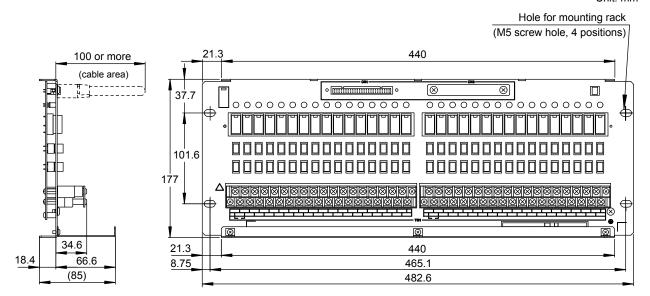


F18E.ai

## • ARM55W

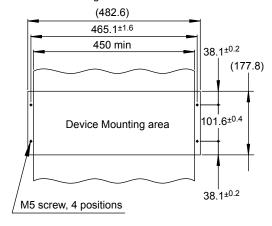
## Other than /BR4

Unit: mm



Rack Mounting Dimension

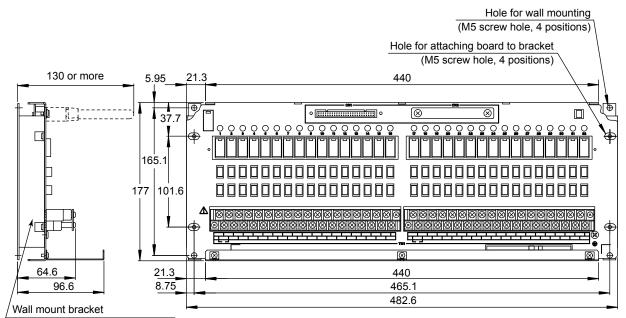
Weight: approx. 2.3 kg



F19E.ai

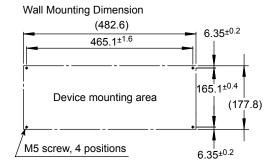
## For /BR4

Unit: mm



Mount bracket first, and then board

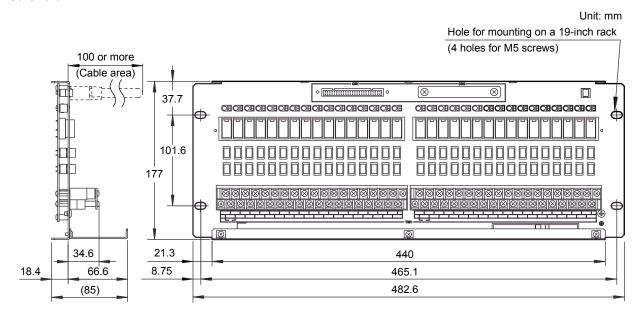
Weight: approx. 2.6 kg



F20E.ai

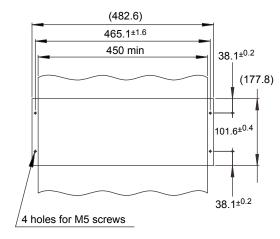
## • ARM55T

## Other than /BR4



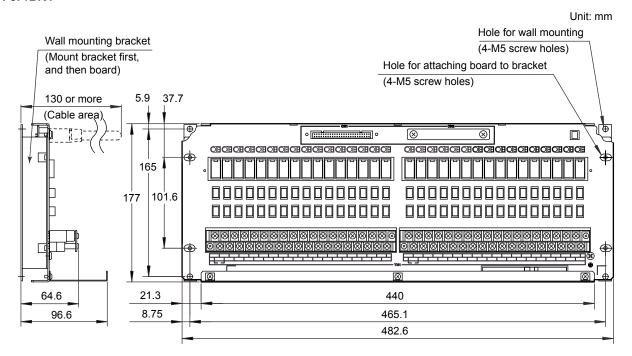
Weight: approx. 2.3 kg (5.07 lb)

## Rack mounting dimention

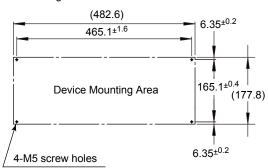


F27E.ai

## For /BR4



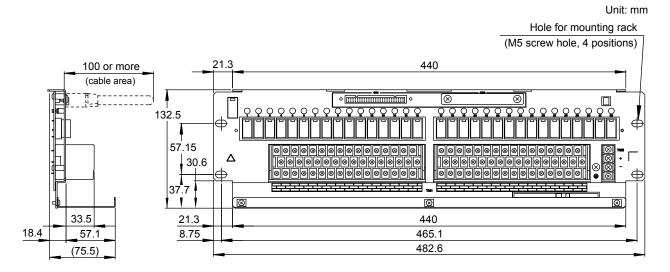
Wall mounting dimention



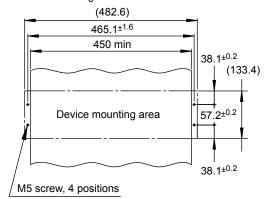
Weight: approx. 2.6 kg (5.73 lb)

## • ARM55C

## Other than /BR3



## **Rack Mounting Dimension**

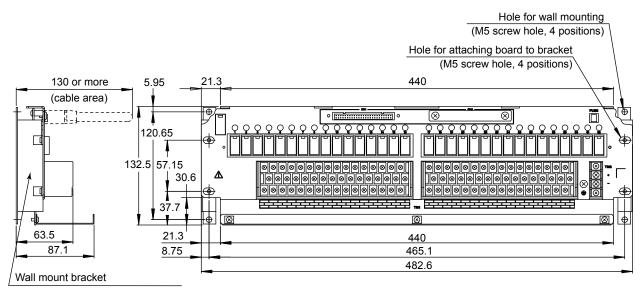


Weight: approx. 2.0 kg

F21E.ai

## For /BR3

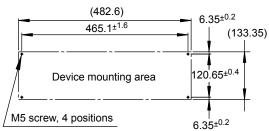
Unit: mm



Mount bracket first, and then board

Weight: approx. 2.2 kg

## Wall Mounting Dimension

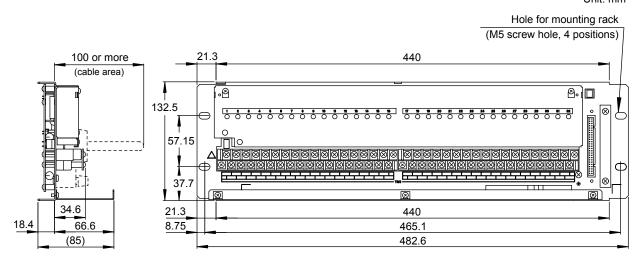


F22E.ai

## • ARS15B

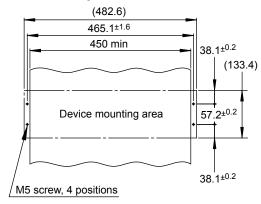
## Other than /BR3

Unit: mm



Rack Mounting Dimension

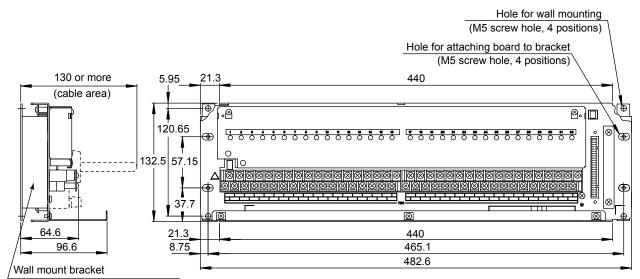
Weight: approx. 2.3 kg



F23E.ai

## For /BR3

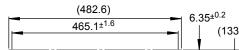
Unit: mm

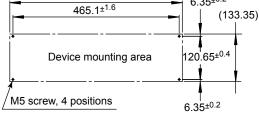


Mount bracket first, and then board

Wall Mounting Dimension

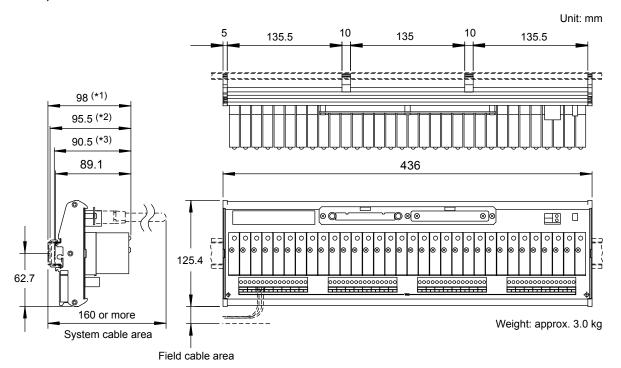
Weight: approx. 2.5 kg





F24.ai

## • ARS15M, ARS55M



- \*1: Applicable DIN Rail; TH35-15, EN 50022 \*2: Applicable DIN Rail; G32, EN 50035 \*3: Applicable DIN Rail; TH35-7.5, EN 50022

F25E.ai

## ■ MODELS AND SUFFIX CODES

## • Mechanical Relay Board

		Description
Model	ARM15A	32 Dry Contact Inputs (M4 Terminals)
	-0	Always 0
Suffix Codes	0	19-inch Rack Mountable
	0	Basic Type
Option Code	/BR3	Wall Mount Bracket

		Description
Model	ARM55D	32 Dry Contact Outputs (M4 Terminals)
	-0	Always 0
Suffix Codes	0	19-inch Rack Mountable
	0	Basic Type
Option Code	/BR3	Wall Mount Bracket

		Description
Model	ARM55W	32 Wet Contact Outputs (M4 Terminals)
	-0	Always 0
Suffix Codes	0	19-inch Rack Mountable
	0	Basic Type
Option Code	/BR4	Wall Mount Bracket

		Description
Model	ARM55T	32 Wet Contact Outputs with Switch (M4 Terminals)
	-0	Always 0
Suffix Codes	0	19-inch Rack Mountable
	0	Basic Type
Option Code	/BR4	Wall Mount Bracket

		Description
Model	ARM55C	32 Dry Contact Outputs (M3.5 Terminals)
	-0	Always 0
Suffix Codes	0	19-inch Rack Mountable
	0	Basic Type
Option Code	/BR3	Wall Mount Bracket

## Solid State Relay Board

		Description
Model	ARS15B	32 Solid State Inputs (SSR Built-In Type, M4 Terminals)
	-5	For 48 V DC input
Suffix Codes	-6	110 V DC input
Sullix Codes	0	19-inch Rack Mountable
	0	Basic Type
Option Code	/BR3	Wall Mount Bracket

		Description
Model	ARS15M	32 Solid State Inputs (SSR Plug-In Type, Pressure Clamp Terminals)
	-1	For 100 V AC input module (32-point type)
	-2	For 220 V AC input module (32-point type)
<b>Suffix Codes</b>	-3	For 10 - 30 V DC input module (32-point type)
	1	DIN Rail Mountable
	0	Basic Type

		Description
Model	ARS55M	32 Solid State Outputs (SSR Plug-In Type, Pressure Clamp Terminals)
	-1	For 100 V AC output module (32-point type)
	-2	For 220 V AC output module (32-point type)
Suffix Codes	-3	For 5-60 V DC output module (32-point type)
	1	DIN Rail Mountable
	0	Basic Type

## **■ ORDERING INFORMATION**

Specify the model and suffix codes.

## **■ TRADEMARKS**

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