

General Specifications

GS 33J62F40-01EN

A2BN3D, A2BN4D, A2BN5D
Base Plates (for N-IO)



System models: A2ZN3D, A2ZN4DC, A2ZN5DC
N-IO I/O Unit

[Release 6]

■ GENERAL

This General Specifications (GS) describes the specifications of the Base plates for N-IO I/O units used in the CENTUM VP's N-IO system.

There are two types of base plates, one for adaptors and the other for barriers.

■ STANDARD SPECIFICATIONS

For the installation environmental standards and combination of base plates, I/O modules, I/O adaptors, and I.S. barriers for mounting of this product, refer to the GS "N-IO System Overview" (GS 33J62A10-01EN).

● Base plate for adaptor (A2BN3D)

This base plate communicates with a node interface unit via an F-SB bus by connecting a field signal to the terminal or the connector on the Base plate for adaptors.

The Base plate for adaptors, one of the components of the N-IO I/O unit (for Adaptor) which is defined as A2ZN3D for the system model, enables to mount I/O modules and various I/O adaptors depending on the signal types. The I/O modules can be mounted in a single or dual-redundant configuration. Channels on the base plate are available to connect up to 16 I/O adaptors. All channels have a disconnection function by making an I/O adaptor half-inserted that can disconnect the signal line between the field terminal, the I/O module, and the I/O adaptor. The base plate has a system power supply and field power supply interface and has a function to supply power to the I/O modules and I/O adaptors from the node interface unit via the power supply cable for base plates (A2KPB00) as well as to supply field power to the inside of the I/O adaptors by connecting the specified power line.

The tables below show the I/O modules and I/O adaptors that can be mounted on the Base plate for adaptor.

Table I/O modules (for N-IO)

Signal type	Description	Model	
Universal input/output	16-channel, 24 V DC, Isolated	A2MMM843	Analog/digital I/O module
Universal input/output	16-channel, 24 V DC, Isolated	A2MDV843	Digital I/O module

Table I/O adaptors (for N-IO)

Signal type	Description	Model	
Analog input	Current input, Voltage input	A2SAM105	Current input/voltage input adaptor
Analog output	Current output, Voltage output	A2SAM505	Current output/voltage output adaptor
mV/TC/RTD input	mV input, TC input, RTD input	A2SAT105 (*1)	mV/TC/RTD input adaptor
Analog input	0 to 10 kHz	A2SAP105 (*2) (*3)	Pulse input signal adaptor
Digital input	24 V DC, voltage input, non-voltage contact input	A2SDV105 (*3)	Digital input adaptor
Digital output	24V DC/0.5 A current source	A2SDV505	Digital output adaptor
	24 V DC/0.5 A, non-voltage contact output	A2SDV506	Relay output adaptor
—	I/O signal non conversion	A2SMX801	Pass-through I/O signal adaptor
—	I/O signal non conversion with field power output	A2SMX802 (*3)	Pass-through I/O signal adaptor

For details of the I/O modules (for N-IO), refer to the GS "I/O modules (for N-IO)" (GS 33J62F20-01EN).

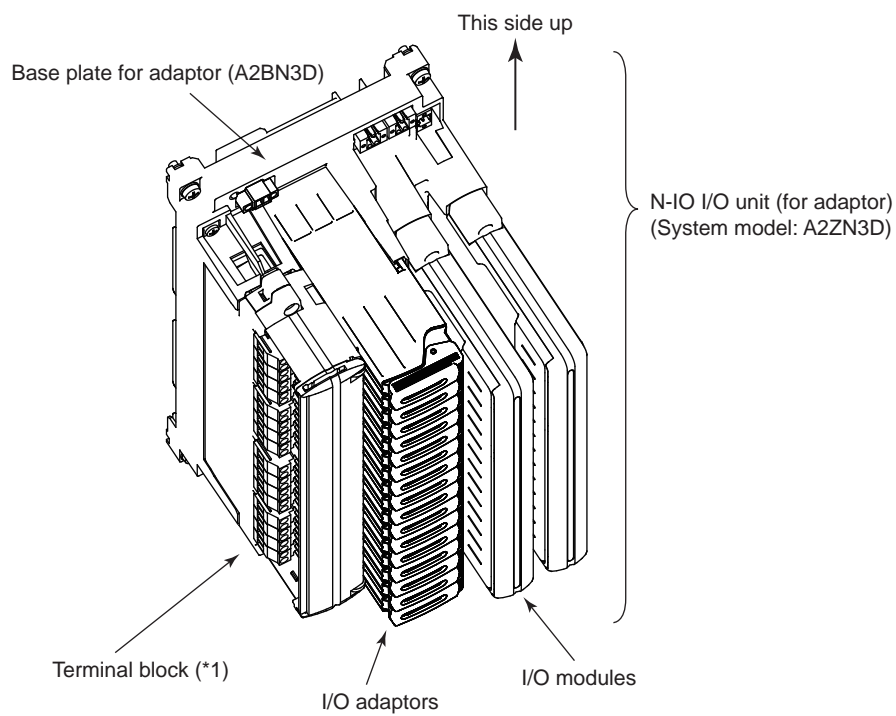
For details of the I/O adaptors (for N-IO), refer to the GS "I/O adaptors (for N-IO)" (GS 33J62F30-01EN).

For installation of I/O modules and I/O adaptors, refer to "LIMITATIONS AND PRECAUTIONS FOR INSTALLATION" of GS "N-IO System Overview" (GS 33J62A10-01EN).

*1: A2AST105 cannot be mounted on A2BN3D-□9□□□.

*2: A2EXR001 can be used as a shunt resistor for A2SAP105.

*3: When these I/O adaptors are mounted on A2BN3D-□9□□□, there are some limitations. Refer to Field Connection Specifications (for N-IO) (GS 33J62A20-01EN) for details.



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*1: For A2BN3D-□9□□□, there is a cable connector, instead of a terminal block.

Figure Hardware configuration (Base plate for adaptor: A2BN3D)

Basic specifications

Item		Specification
Field power supply [FLD PWR] (*1)	Rating	24 V DC +10%/-10%, up to 8.0 A
	Over voltage protection (OVP) detection level	32 V or lower
	Withstanding voltage between the output and the ground	500 V AC or higher for 1 minute
	Capacitance between the output and the ground	0.4 μ F or less (*2)
Mounting		DIN rail mount type (A2BN3D-0) Wall mount type (with 4 M4 screws) (A2BN3D-1)
Number of components that can be mounted	I/O module	2 modules
	I/O adaptor	16 adaptors
Number of channels		16 channels
Connection	Power supply	System power supply: Connected by the power supply cable for base plate (A2KPB00), Field power supply: Connected by the cable (*3) to the field power supply terminal
	Grounding	M3 screw terminal
	Field signal	Pressure clamp terminal (A2BN3D-□1) (*4) Spring clamp terminal (A2BN3D-□2) (*4) Cable connector (A2BN3D-□9) (*5)
	F-SB bus	Connected by F-SB bus cable (A2KLF00)
Weight		Approx. 1.3 kg
Withstanding voltage		Between field and system : 1500 V AC for 1 minute 42 V DC, continuous (*6) Between channels: 500 V AC for 1 minute
Insulation resistance		Between field and system: 100 M Ω or more (500 V DC) Between channels: 100 M Ω or more (500 V DC)
Mounting conditions		A dummy cover (A2DCV01) must be attached to any unused slot of the I/O module. A pass-through adaptor (A2SMX801) must be mounted to any unused slot of the I/O adaptor.

*1: The 24 V DC field power supply terminal must not be grounded. Field wiring of A2SDV105, A2SDV505, and A2SMX802 I/O adaptors also must not be grounded. Field power supply shall not be provided directly from a DC distribution network.

*2: When using multiple power supplies connected in parallel, the total capacitance must meet this condition.

*3: A cable must be prepared separately: Cable size (0.5 to 1.5 mm²).

*4: A cable must be prepared separately: Cable size (0.5 to 2.5 mm²).

*5: A signal cable (AKB331 or AKB651) and a terminal board (A2BM4) must be prepared separately.

*6: When the withstanding voltage of the field power supply between the output and the ground is lower than this value, these voltages are adopted as the withstanding voltage of the field power supply.

● Base plate for barrier (A2BN4D)

This base plate communicates with the node interface unit via an F-SB bus by connecting a field signal to a terminal on the intrinsic safety (hereinafter I.S.) barrier mounted on.

The Base plate for barrier, one of the components of the N-IO I/O unit (for Barrier) which is defined as A2ZN4DC for the system model, enables to mount I/O modules and various I.S. barriers from Eaton Electric Limited, MTL Products (hereinafter MTL). The I.S. barrier has a field connection terminal (pressure clamp terminal) for connecting the field signals. If it is necessary to disconnect the signal line between the field device and the I.S. barrier, disconnect the signal line outside the base plate for barrier.

The I/O modules can be mounted in a single or dual-redundant configuration. Channels on the base plate are available to connect up to 16 I.S. barriers. The base plate has a system power supply and a field power supply interface and has a function to supply power to the I/O modules from the node interface unit via the power supply cable for base plate (A2KPB00) as well as to supply field power to the I.S. barriers by connecting the specified power line. The tables below show the I/O modules and I.S. barriers that can be mounted on the base plate.

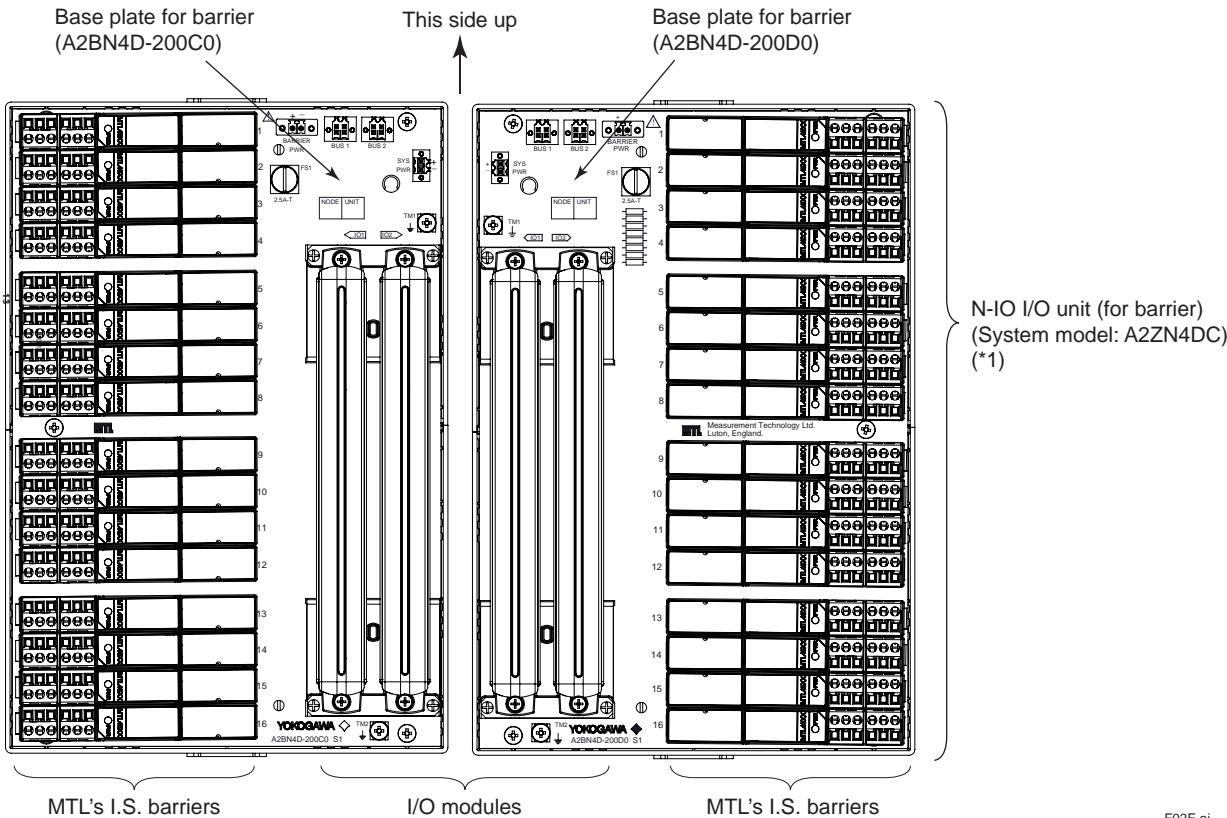
Table I/O modules (for N-IO)

Signal type	Description	Model
Universal input/output	Analog digital I/O module (16-channel, isolated)	A2MMM843
Universal input/output	Digital I/O module (16-channel, isolated)	A2MDV843

Table MTL's I.S. barriers

Signal type	Description	Model
Analog input	4 to 20 mA, 2-wire, HART	MTL4541Y (*1)
	4 to 20 mA, 4-wire, HART	MTL4541YA
Analog output	4 to 20 mA, HART	MTL4545Y
Digital input	Dry contact or NAMUR, LFD	MTL4514N
Digital output	Voltage output	MTL4521Y
	Voltage output, LFD	MTL4523Y
Temp. input	TC/RTD	MTL4573Y

*1: 3-wire or 4-wire transmitters also can be connected, but HART communications is not be supported.



*1: MTL's I.S. barriers are not included in A2ZN4DC.

Figure Hardware configuration (Base plate for barrier: A2BN4D)

Basic specifications

Item		Specification
Input power supply	System power supply [SYS PWR] (*1)	24 V DC +10%/-14 %
	Field power supply [BARRIER PWR] (*2)	24 V DC +10%/-14 %, up to 1.6 A
Mounting		DIN rail mount/Wall mount (M4 screws)
Number of components that can be mounted	I/O module	2 modules
	I.S. barrier	16 barriers
Number of channels		16 channels
Connection	Power supply	System power supply: Connected by the power supply cable for base plate (A2KPB00) Field power supply: Connected the cable (*3) to the field power supply terminal
	Grounding	M4 screw terminal (*4)
	Field signal (*5)	Pressure clamp terminal
	F-SB bus	Connected the F-SB bus cable (A2KLF00)
Weight		Approx. 0.85 kg
Withstanding voltage		Between field and system: 1500 V AC for 1 minute 42 V DC, continuous
Insulation resistance		Between field and system: 100 M Ω or higher (500 V DC)
Mounting conditions		A dummy cover (A2DCV01) must be attached to any unused slot of the I/O module.

Note: Response time of the I.S. barriers varies by the specifications of the I.S. barriers and the response time of their control-loops. The response time of some of the I.S. barriers are more than several tens of milliseconds. Refer to the specifications of the I.S. barriers provided by the vendor for more details.

*1: Power supply from the node interface unit using the power supply cable for base plate (A2KPB00).

*2: Field power supply shall not be provided directly from a DC distribution network.

*3: A cable must be prepared separately: Cable size (0.5 to 1.5 mm²).

*4: The screw terminal is on the MTL's I.S. barrier.

*5: Cable specification of field signal depends on the requirements specification of the MTL's I.S. barriers. Refer to the instruction manuals of the I.S. barriers provided by the vendor.

● Base plate for barrier (A2BN5D)

This base plate communicates with the node interface unit via an F-SB bus by connecting a field signal to a terminal on the I.S. barrier mounted on.

The Base plate for barrier, one of the components of the N-IO I/O unit (for Barrier) which is defined as A2ZN5DC for the system model, enables to mount I/O modules and various I.S. barriers from Pepperl+Fuchs GmbH (P+F). This base plate has a field connection terminal (spring clamp terminal) for connecting the field signals. If it is necessary to disconnect the signal line between the field device and the I.S. barrier, disconnect the signal line outside the base plate for barrier.

The I/O modules can be mounted in a single or dual-redundant configuration. Channels on the base plate are available to connect up to 16 I.S. barriers. The base plate has a system power supply and a field power supply interface and has a function to supply power to the I/O modules from the node interface unit via the power supply cable for base plate (A2KPB00) as well as to supply field power to the I.S. barriers by connecting the specified power line. The tables below show the I/O modules and I.S. barriers that can be mounted on the base plate.

Table I/O modules (for N-IO)

Signal type	Description	Model
Universal input/output	Analog digital I/O module (16-channel, isolated)	A2MMM843
Universal input/output	Digital I/O module (16-channel, isolated)	A2MDV843

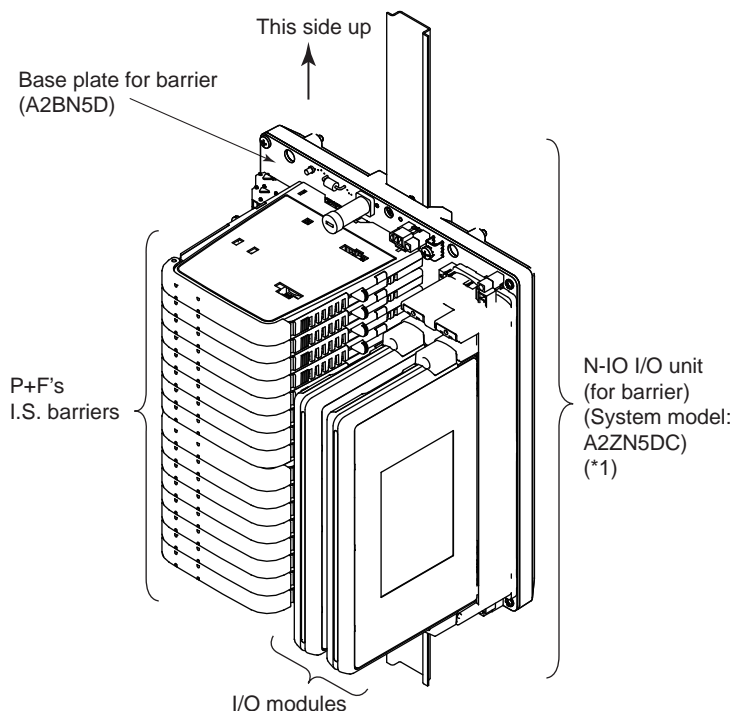
Table P+F's I.S. barriers

Signal type	Description	Model	Part No.
Analog input	4 to 20 mA, 2-wire/4-wire, HART	HiC2025	272017
	4 to 20 mA, 2-wire/4-wire, HART, LFD	HiC2025ES (*3)	292850
Analog output	4 to 20 mA, HART	HiC2031	272020
	4 to 20 mA, HART, long field cables	HiC2031HC (*1)	226027
Digital input	Dry contact or NAMUR, LFD	HiC2831	272022
Digital output	Voltage output, LFD	HiC2883	70140020
Temp. input	TC/RTD	HiC2081	275178
—	Polarizing pin (*2)	H-CP	—

*1: Unavailable in South Korea, USA and Canada.

*2: As for the usage of the polarizing pin, refer to the instruction manual of the H-System provided by P+F.

*3: Unavailable in Australia, New Zealand, South Korea, USA and Canada.



*1: P+F's I.S. barriers are not included in A2ZN5DC.

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Figure Hardware configuration (Base plate for barrier: A2BN5D)

Basic Specifications

Item		Specification
Input power supply	System power supply [SPS] (*1)	24 V DC +10%/-14 %
	Field power supply [BPS] (*2)	24 V DC +10%/-14 %, up to 1.2 A
Mounting		DIN rail mount/ wall mount (4xM4 screws)
Number of components that can be mounted	I/O module	2 modules
	I.S. barrier	16 barriers
Number of channels		16 channels
Connection	Power supply [SPS/BPS]	System power supply: Connected with the power supply cable for base plate (A2KPB00) Field power supply: Connected with the cable (*3)
	Grounding [TM1/TM2]	M4 screw terminal
	Field signal (*4) [TB1/TB2]	Spring clamp terminal
	F-SB bus [BUS1/BUS2]	Connected with the F-SB bus cable (A2KLF00)
Weight		Approx. 0.93 kg
Withstanding voltage		Between field and system: 1500 V AC for 1 minute 42 V DC, continuous
		Between channels: 500 V AC for 1 minute
Insulation resistance		Between field and system: 100 M Ω or higher (500 V DC)
		Between channels: 100 M Ω or higher (500 V DC)
Mounting conditions		A Dummy Cover (A2DCV01) must be attached to any unused slot of the I/O module.

Note: Response time of the I.S. barriers varies by the specifications of the I.S. barriers and the response time of their control-loops. The response time of some of the I.S. barriers are more than several tens of milliseconds. Refer to the specifications of the I.S. barriers provided by the vendor for more details.

*1: Power supply from the Node interface unit using the power supply cable for base plate (A2KPB00).

*2: Field power supply shall not be provided directly from a DC distribution network.

*3: A cable and a connector must be prepared separately.

Cable size: 0.5 to 1.5 mm²

Connector: BCZ 3.81/02/180F SN BK BX (Weidmüller Interface GmbH & Co. KG)

*4: A cable must be prepared separately. Cable size: 0.5 to 2.5 mm²

■ ENGINEERING NOTES

To ensure that a field signal alarm can be detected, the settings for the I.S. barrier and I/O modules need to be configured in the barrier base plate engineering. The column of "Field cable status" shows the causes of failures to generate the process alarm. If, for example, a setting is not correct or has not been configured, the alarm signal cannot be detected correctly and the alarm may not be displayed in the system appropriately.

For the settings of the I.S. barrier, refer to the instruction manual provided by the vendor.

Table Settings for I.S. barrier and I/O modules when using base plate for barrier (A2BN4D)

Signal type	I.S. barrier settings		I/O module settings		Field cable status	Process alarm (*5)
	Model	Settings	Signal	Settings		
Analog Input	MTL4541Y	None	AI-4wire	Detect IOP (enabled)	Disconnection	IOP-
					Short circuit	IOP
	MTL4541YA	None		Detect IOP (enabled)	Disconnection	IOP-
					Short circuit	IOP-
Analog output	MTL4545Y	None	AO	Detect OOP (enabled)	Disconnection	OOP
Digital input	MTL4514N	LFD function (enabled) (*1)	DI-NAMUR	Detect disconnection (enabled)	Disconnection	IOP
					Short circuit	IOP
Digital output	MTL4523Y	None	DO-Source	Detect LFD (enabled)	Disconnection	OOP
					Short circuit	OOP
	MTL4521Y	None	DO-Sink	None	Disconnection	—
					Short circuit	—
Temperature input	MTL4573Y	Sensor type, error setting (Disconnection), etc. (*2)	AI-4wire	Detect IOP (enabled)	Disconnection	IOP or IOP- (*3)
					Short circuit	IOP or IOP- (*3) (*4)

*1: Can be set with the DIP switch on the I.S. barrier (for details, refer to the instruction manual for the I.S. barrier provided by MTL). LFD: Line Fault Detection.

*2: Can be set with a Setting Tool (PCS45) provided by MTL (for details, refer to MTL's website).

*3: The alarm type for the burnout/short-circuit can be selected by setting the I.S. barrier.

*4: Could not be detected depending on the setting value of the sensor type for the I.S. barrier.

*5: Only when the process I/O identifier, %Y is connected to the functional block with IOP process alarm, IOP process alarm occurs.

Table Settings for I.S. barrier and I/O modules when using base plate for barrier (A2BN5D)

Signal type	I.S. barrier settings		I/O module settings		Field cable status	Process alarm (*5)
	Model	Settings	Signal	Settings		
Analog input (2-wire/4-wire)	HiC2025	I/O module I/F (*2)	AI-4wire	Detect IOP (enabled)	Disconnection	IOP-
					Short circuit	IOP for 2-wire IOP- for 4-wire
	HiC2025ES	I/O module I/F (*2)	AI-4wire	Detect IOP (enabled)	Disconnection	IOP-
					Short circuit	IOP for 2-wire IOP- for 4-wire
Analog output	HiC2031, HiC2031HC	I/O module I/F (*2)	AO	Detect OOP (enabled)	Disconnection	OOP
Digital input	HiC2831	LFD function (*2)	DI-NAMUR	Detect disconnection (enabled)	Disconnection	IOP
					Short circuit	IOP
Digital output	HiC2883	LFD function, I/O module I/F (*2)	DO-Source	Detect disconnection (enabled)	Disconnection	OOP (*6)
					Short circuit	OOP (*6)
Temperature input	HiC2081	Sensor type, error setting (Disconnection), etc. (*1) I/O module I/F (*2)	AI-4wire	Detect IOP (enabled)	Disconnection	IOP or IOP- (*3)
					Short circuit	IOP or IOP- (*3) (*4)

*1: Please set with the software (PACTware). (for details, refer to the instruction manual for the I.S. barrier provided by P+F).

*2: Please set with the DIP switch on the I.S. barrier (for details, refer to the instruction manual for the I.S. barrier provided by P+F). LFD: Line Fault Detection.

HiC2025 and HiC2025ES: Current source 4 mA ... 20 mA

HiC2031: Open loop voltage of the control system < 27 V

HiC2031HC: Open loop voltage of the control system < 26 V

HiC2831: LFD function: Enable

HiC2883: LFD function: Enable

Operating mode: Bus powered with logic input

Minimum load: Disable

HiC2081: Output mode: source

*3: The alarm type for the disconnection/short-circuit can be selected by setting the I.S. barrier.

*4: Could not be detected depending on the setting value of the sensor type for the I.S. barrier.

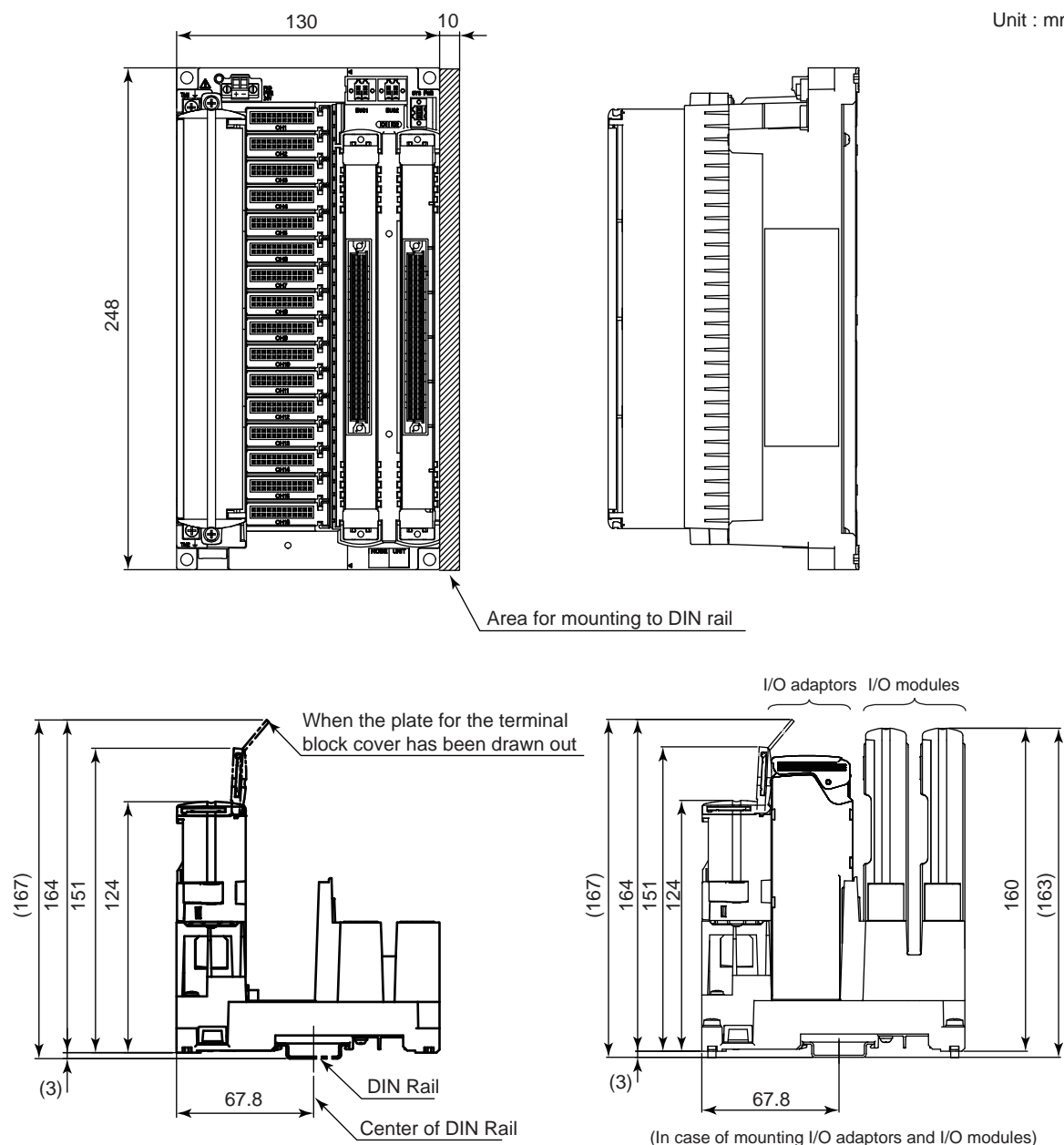
*5: Only when the process I/O identifier, %Y is connected to the functional block with IOP process alarm, IOP process alarm occurs.

*6: This function is available when output ON.

EXTERNAL DIMENSION

● Base plate for adaptor, DIN rail mount type (A2BN3D-01□□□ and -02□□□)

Unit : mm



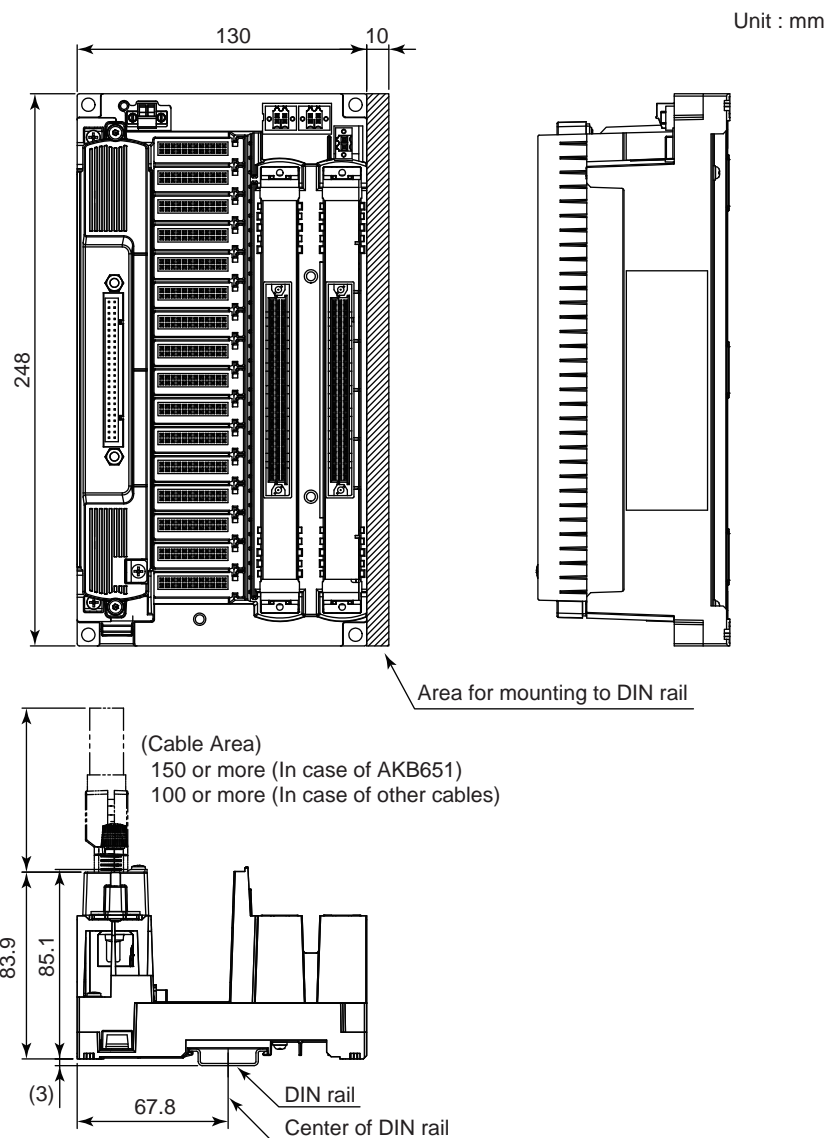
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Nominal tolerances :

Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.

● Base plate for adaptor, DIN rail mount type (A2BN3D-09□□□)



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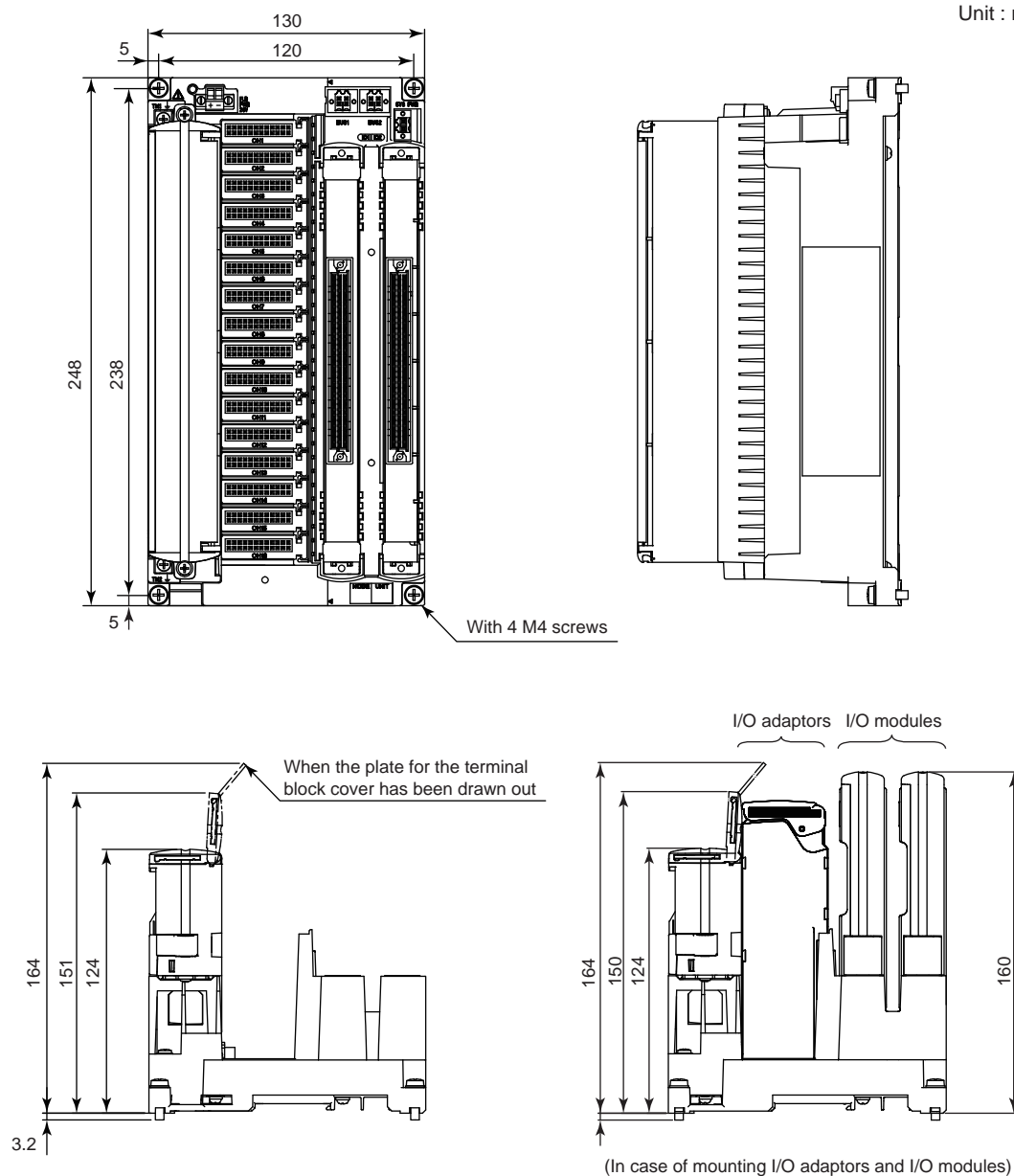
Nominal tolerances :

Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.

● Base plate for adaptor, Wall mount type (A2BN3D-11□□□ and -12□□□)

Unit : mm



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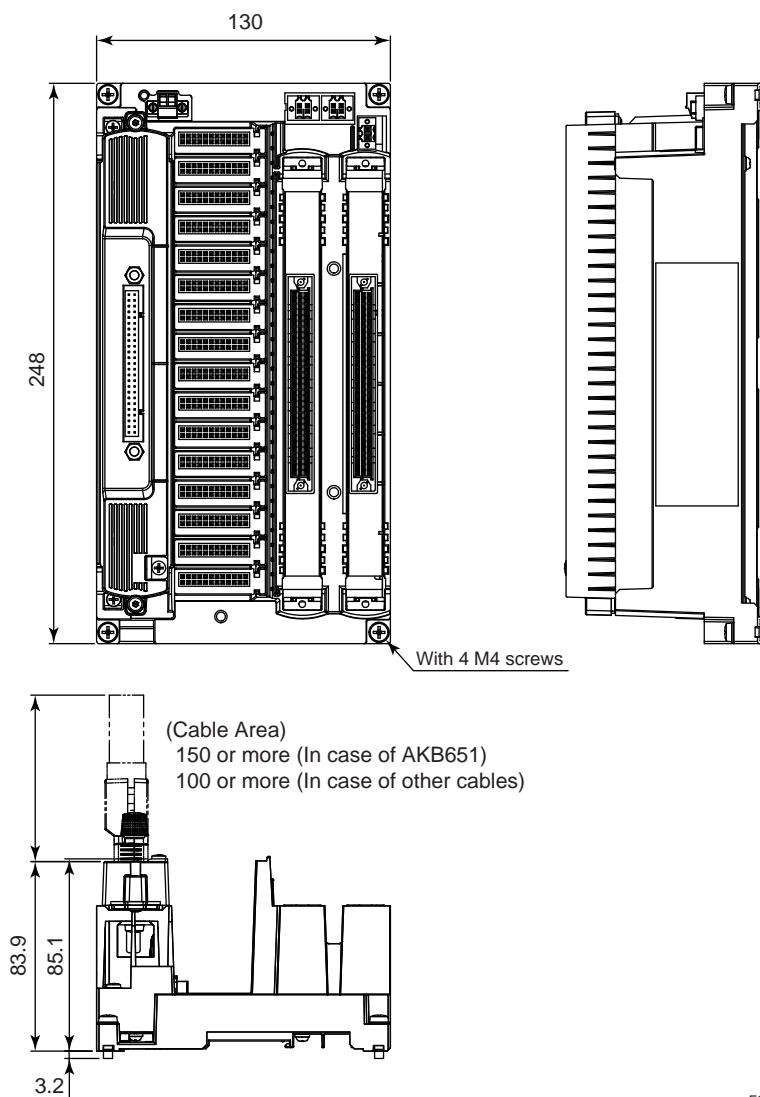
Nominal tolerances :

Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.

● Base plate for adaptor, Wall mount type (A2BN3D-19□□□)

Unit : mm



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Nominal tolerances :

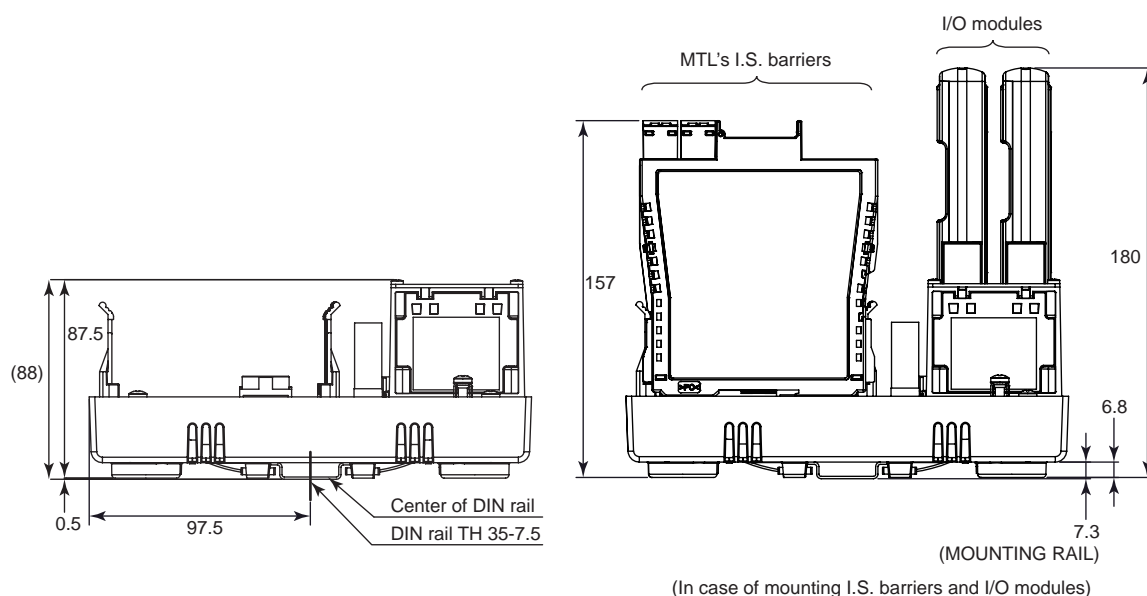
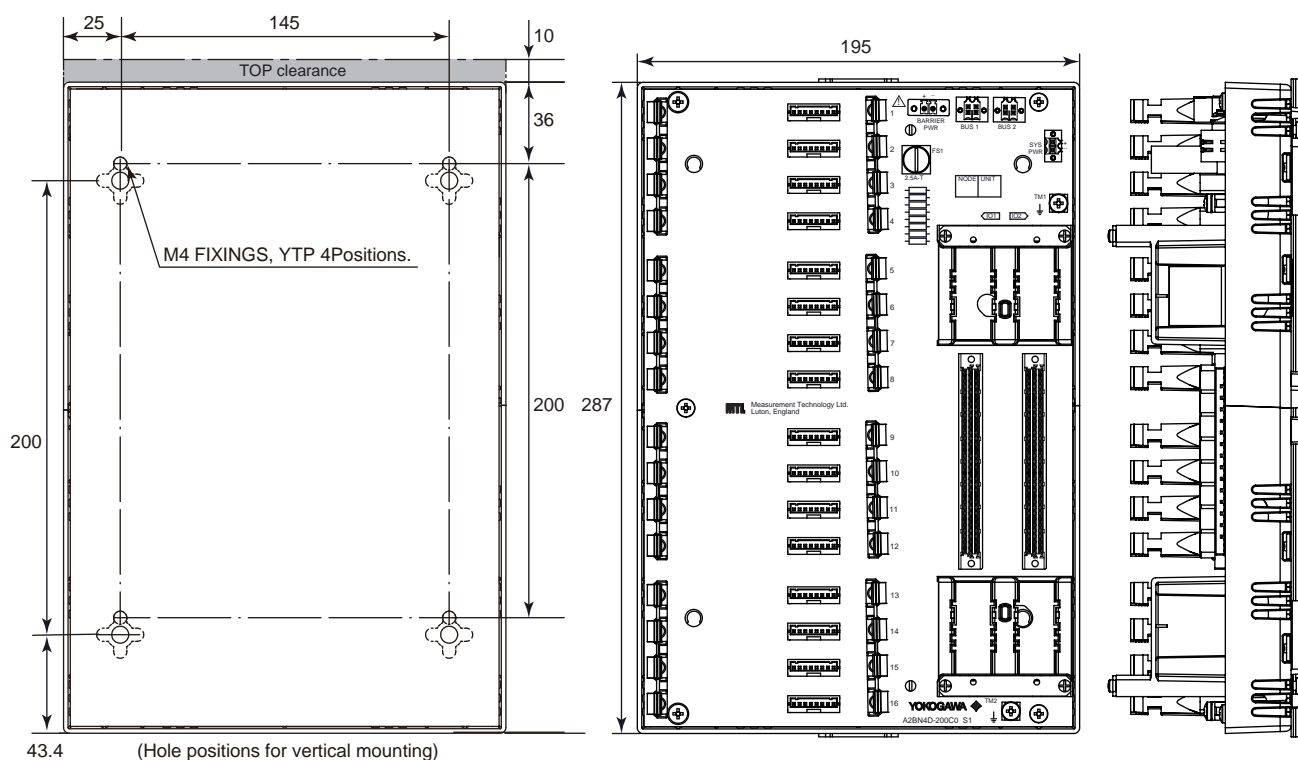
Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.

● Base plate for barrier (A2BN4D)

With I.S. wiring on the left side of the base plate (A2BN4D-200C0)

Unit: mm



Nominal tolerances :

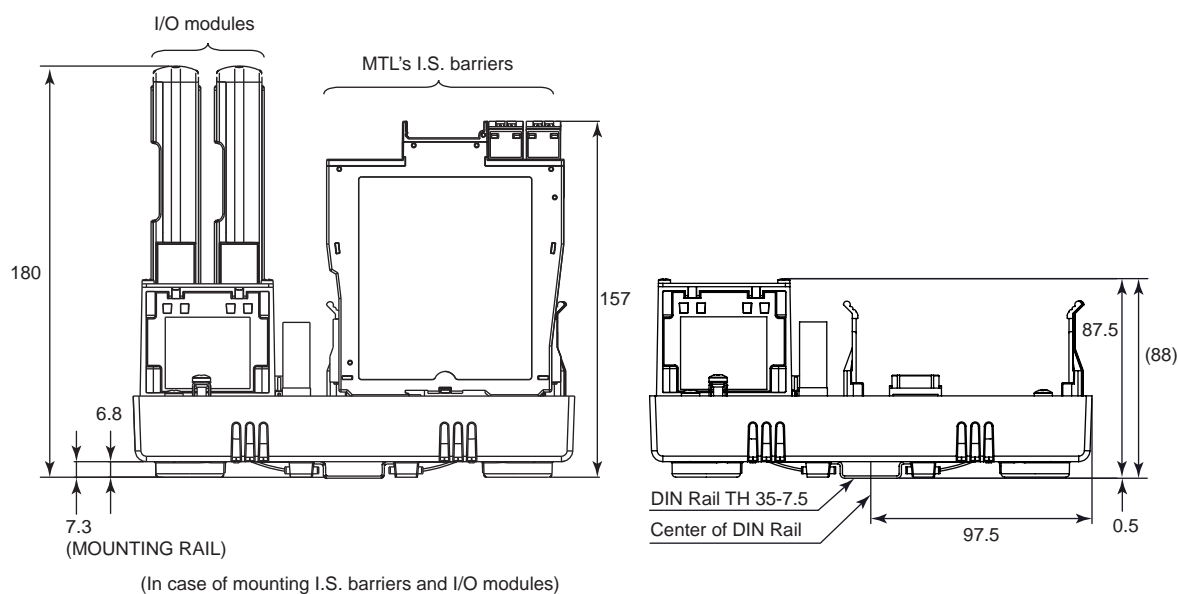
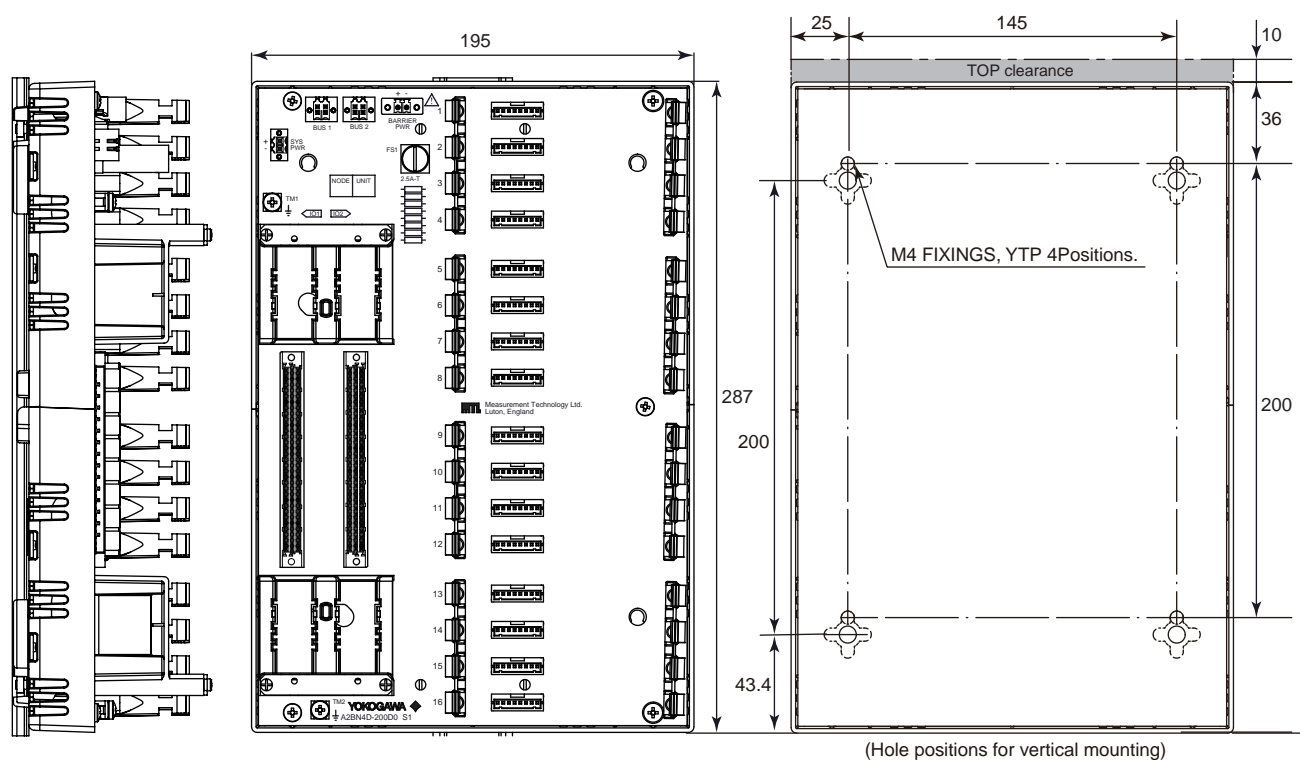
Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.

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With I.S. wiring on the right side of the base plate (A2BN4D-200D0)

Unit: mm



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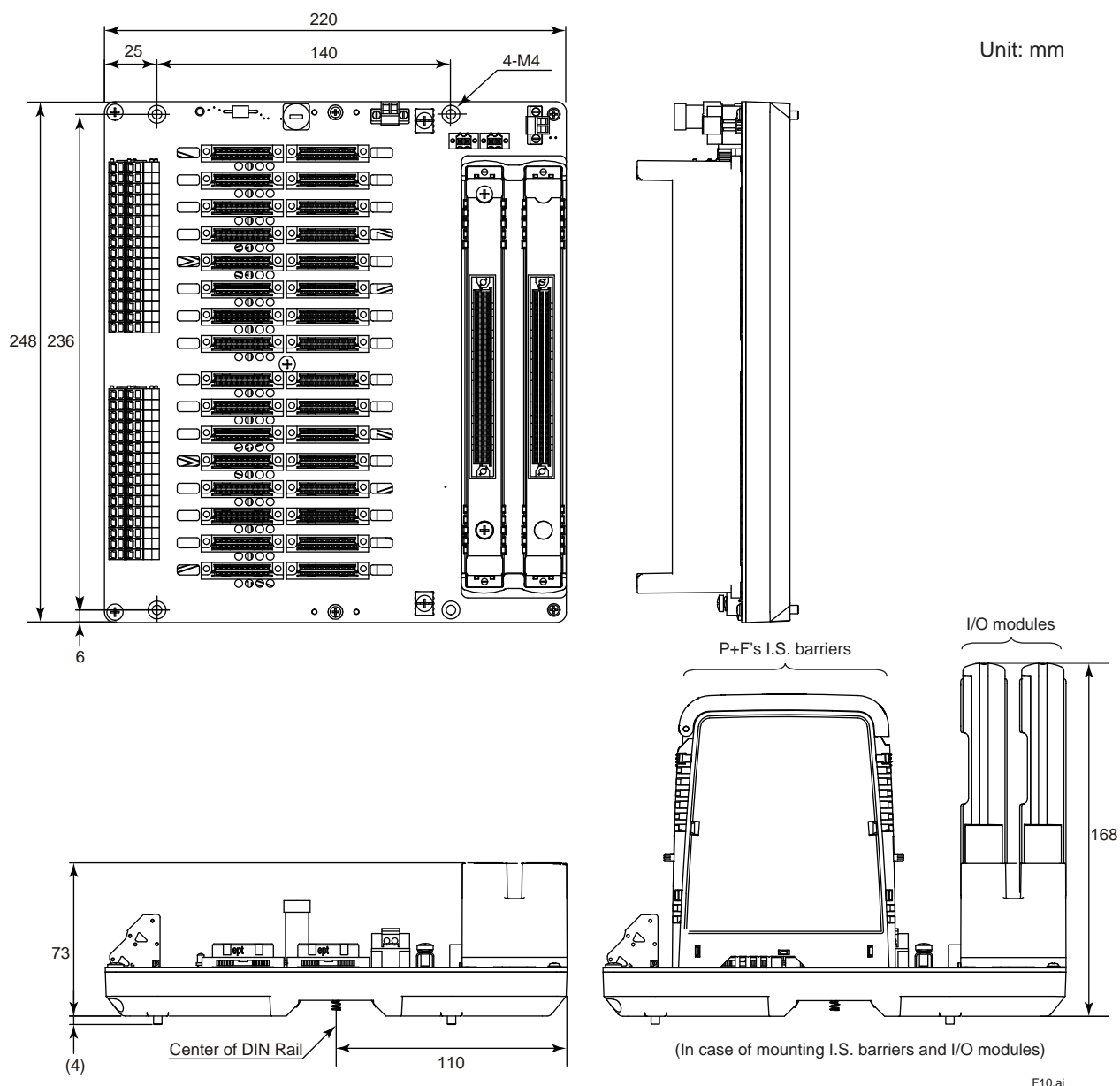
Nominal tolerances :

Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.

● Base plate for barrier (A2BN5D)

With I.S. wiring on the left side of the base plate (A2BN5D-221C0)



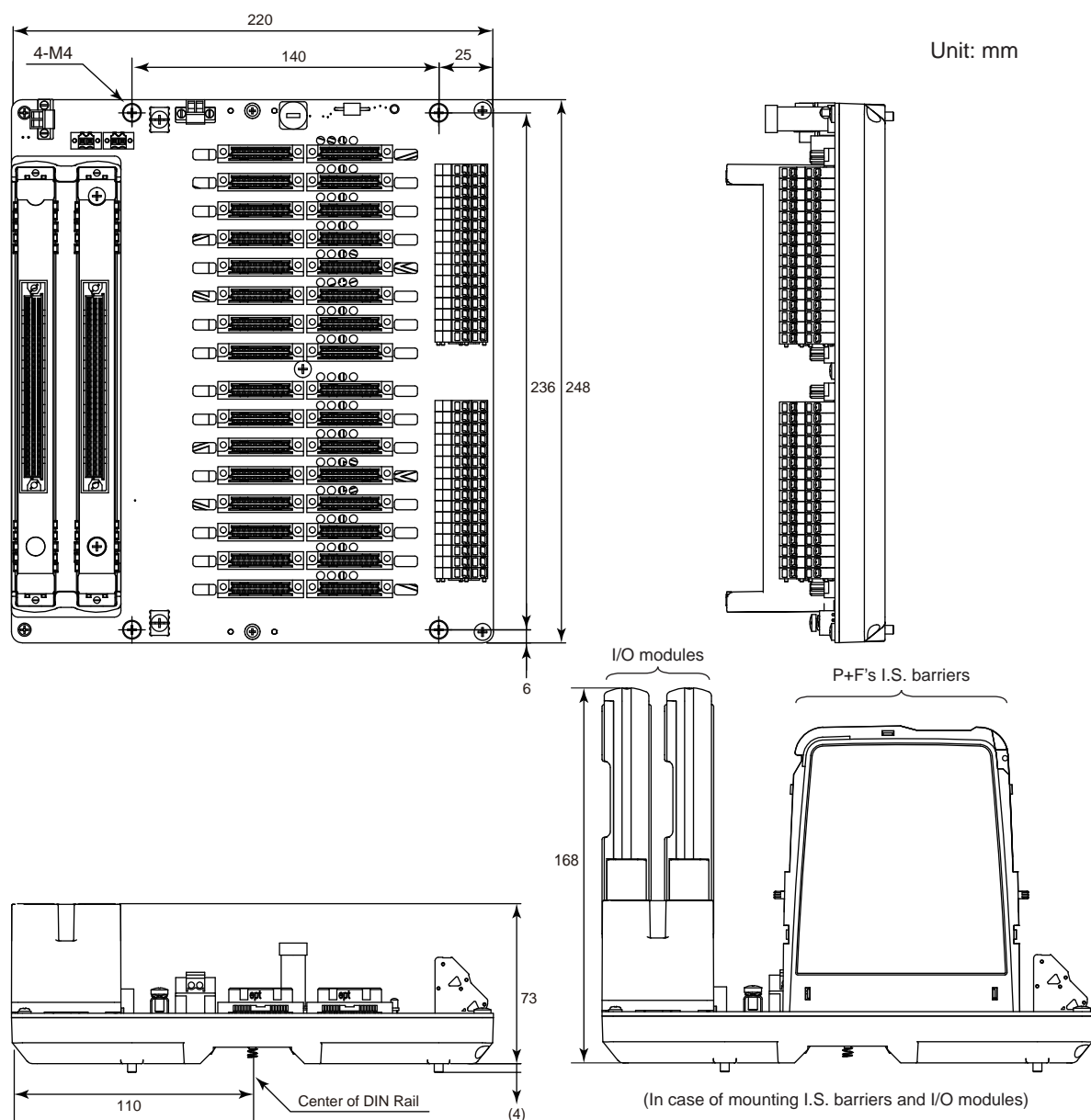
Nominal tolerances :

Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.

● Base Plate for Barrier (A2BN5D)

With I.S. wiring on the right side of the base plate (A2BN5D-221D0)



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Nominal tolerances :

Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.

■ MODEL AND SUFFIX CODES

Base plate for adaptor (for N-IO)

		Description
Model	A2BN3D	Base plate for adaptor (for N-IO, 16-channel, Pressure clamp terminal or spring clamp terminal)
Suffix Codes	-0	DIN rail mount type
	-1	Wall mount type
	0	With no terminal block (only for N-IO field enclosure maintenance) (*1)
	1	Pressure clamp terminal for field wiring
	2	Spring clamp terminal for field wiring
	9	Cable connector interface (for AKB cable) (*2) (*3)
	0	With no explosion protection
	1	With explosion protection
	0	Basic type
	1	With ISA standard G3 option
	2	With temperature (-40 to 70 °C) option (*2)
	3	With ISA standard G3 option and temperature (-40 to 70 °C) option (*2)
	0	With no RJC
	1	With RJC (*3)
Option Code	/L	With TAG label (*3) (*4)
	/T	With printed TAG label (*3) (*5)

*1: This suffix code is dedicated to the base plate(A2BN3D-10□31) constituting the following N-IO field enclosure related products.

A2NN70D (system model: A2ZN70D)

A2NN60D (system model: A2ZN60D)

This suffix code can not be processed in standard order.

*2: When "Cable connector interface" is selected, operation temperature range of suitable cable (AKB331 and AKB651) is -20 to 70 °C.

*3: When "Cable connector interface" is selected, "With RJC", "With tag label", and "With printed tag label" cannot be selected.

*4: The tag label (Part No. T9043VA) is affixed to the plate of the terminal block cover.

*5: The tag label (Part No. T9043VA) with a tag number is affixed to the plate of the terminal block cover.

Base plate for barrier (for N-IO, MTL barrier)

		Description
Model	A2BN4D	Base plate for barrier (for N-IO, MTL barrier)
Suffix Codes	-2	For both DIN rail and wall mount type
	0	Always 0
	1	With explosion protection (*1) (*2)
	C	I.S. wiring (Left) (*3)
	D	I.S. wiring (Right) (*3)
	0	Always 0

Note: With ISA standard G3 by default.

*1: In Korea, A2BN4D is used only for intrinsic safety of explosion-protection and but it cannot be installed in the hazardous area.

*2: In Eurasian Economic Union, A2BN4D is used only for intrinsic safety of explosion-protection, but it and cannot be installed in the hazardous area.

*3: The MTL I.S. barrier can be mounted. The I.S. circuit is placed on the left for A2BN4D-201C0 and on the right for A2BN4D-201D0 of the base plate. (For details, refer to the external dimensions).

Base plate for barrier (for N-IO, P+F barrier)

		Description
Model	A2BN5D	Base plate for barrier (for N-IO, P+F barrier)
Suffix Codes	-2	For both DIN rail and wall mount type
	2	Spring clamp terminal for field wiring
	1	With explosion protection (*1) (*2) (*3)
	C	I.S. wiring (Left) (*4)
	D	I.S. wiring (Right) (*4)
	0	Always 0

Note: With ISA standard G3 by default.

Note: In Korea, provide DOCIM33J01J3008KO to comply with the KCs IS for intrinsic safety of explosion-protection.

Note: When the final destination is Eurasian Economic Union, provide IM33J01J30-09RU together to comply with the EAC Ex IS for intrinsic safety of explosion-protection.

Note: The maximum ambient temperature specifications for A2BN5D depend on Style code and compliance criteria. For details, refer to GS 33J01A10-01EN "Integrated Production Control System CENTUM VP System Overview".

*1: A2BN5D style S1 cannot be installed in the hazardous area.

*2: In Korea, A2BN5D is used only for intrinsic safety of explosion-protection, but it and cannot be installed in the hazardous area.

*3: In Eurasian Economic Union, A2BN5D is used only for intrinsic safety of explosion-protection and but it cannot be installed in the hazardous area.

*4: The P+F I.S. barrier can be mounted. The I.S. circuit is placed on the left for A2BN5D-221C0 and on the right for A2BN5D-221D0 of the base plate. (For details, refer to the external dimensions).

Dummy Cover

		Description
Model	A2DCV01	Dummy Cover (for N-IO IO module)
Suffix Code	-0	Always 0

Note: A Dummy Cover must be attached to any unused slot of the I/O module.

■ APPLICABLE STANDARDS

Refer to "Integrated production control system CENTUM VP system overview" (GS 33J01A10-01EN). The following system models are conformity models for CE Marking and UKCA Marking including each of the base plates. The system models do not have suffix or option codes.

Table Conforming models for CE Marking and UKCA Marking

System model	Components
A2ZN3D	A2BN3D, A2MMM843, A2MDV843, A2SAM105, A2SAM505, A2SAT105, A2SAP105, A2EXR001, A2SDV105, A2SDV505, A2SDV506, A2SMX801, A2SMX802, S9194FE (*1), S9195FE (*1), AKB331 (*2), AKB651 (*2), A2BM4 (*2)
A2ZN4DC	A2BN4D, A2MMM843, A2MDV843
A2ZN5DC	A2BN5D, A2MMM843, A2MDV843

*1: The pressure clamp terminal block (S9194FE) and the spring clamp terminal block (S9195FE) are dedicated to the terminal block constituting the following N-IO field enclosure related products.

A2NN70D (system model: A2ZN70D)

A2NN60D (system model: A2ZN60D)

These parts are used in combination with A2BN3D-10□31, and these can not be processed in standard order.

*2: These models are used in combination with A2BN3D-□9□□□.

■ STANDARD ACCESSORIES

The following accessories are supplied with the base plates.

Parts Name	Part No.	Quantity	Remarks
FG Cable	S9905UV	1	for A2BN3D
	S9906UV	1	for A2BN4D
	S9907UV	1	for A2BN5D

■ ORDERING INFORMATION

- Specify models, suffix codes, and option codes when ordering.
- For selecting the right products for explosion protection, refer to TI 33Q01J30-01E without fail.
- When ordering CE Marking compliant model of A2BN3D (with explosion protection), A2BN4D, and A2BN5D for countries and regions where these standards apply, at least one copy of explosion protection manual (IM 33K01J30-50E) is required to follow the ATEX directive. This manual is available by specifying the option code of "/ATDOC" on the parent products, a field control unit (A2FV50□) or a node interface unit (A2NN30D). When ordering these models, select an option code of "/ATDOC" with one of the FCUs or NIUs adopted for the project.
- When ordering UKCA Marking compliant model of A2BN3D (with explosion protection), A2BN4D, and A2BN5D for countries and regions where these standards apply, at least one copy of explosion protection manual (IM 33K01J30-50E) is required to follow the UKEX regulation. This manual is available by specifying the option code of "/ATDOC" on the parent products, a field control unit (A2FV50□) or a node interface unit (A2NN30D). When ordering these models, select an option code of "/ATDOC" with one of the FCUs or NIUs adopted for the project.

■ TRADEMARK ACKNOWLEDGMENT

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