

**mitsubishi electric engineering**

**General-purpose interface amplifier  
junction terminal block**

**MODEL**

**DG2SV1TB**

**User's Manual**

(Detailed Edition)



Time and Wire Saving Devices




# ● SAFETY PRECAUTIONS ●


## Before Using the Product

Do not attempt to install, operate, maintain, or inspect this product until you have carefully read through this User's Manual and relevant documents and can use the equipment correctly. Do not use this product until you have a full knowledge of the equipment, safety information, and instructions. In this manual, the safety instruction levels are classified into "WARNING" and "CAUTION."


 <b>WARNING</b>	Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.
 <b>CAUTION</b>	Indicates that incorrect handling may cause hazardous conditions, resulting in minor or moderate injury or property damage.

Under some circumstances, failure to observe the precautions given under "CAUTION" may lead to serious consequences. Observe the precautions of both levels because they are important for personal and system safety. After reading this manual, keep the manual in a safe place for future reference.


## 1. Electric Shock Prevention

 <b>WARNING</b>	
<ul style="list-style-type: none"><li>• Make sure that all wiring work and inspections are performed by professional engineers.</li><li>• Do not damage, apply unreasonable stress to, place heavy objects on, or pinch the cables. Doing so results in the risk of electric shock.</li><li>• To avoid electric shock, insulate the connection area of the power supply terminal.</li><li>• Be sure to shut off all phases of the external power supply used by the system before performing work such as installation and wiring. Failure to do so results in the risk of electric shock and product damage.</li></ul>	

## 2. Fire Prevention

 <b>CAUTION</b>	
<ul style="list-style-type: none"><li>• Be sure to install this product in a non-flammable object. Directly installing the product in a flammable object or installing the product near a flammable object results in the risk of fire.</li><li>• Do not allow any conductive foreign objects, such as a screw or metal fragments, or flammable foreign objects, such as oil, to enter the product interior.</li></ul>	

## 3. Injury Prevention

 <b>CAUTION</b>	
<ul style="list-style-type: none"><li>• Be careful to connect terminals correctly. Failure to do so results in the risk of explosion, damage, and the like.</li><li>• The polarity (+ and -) must be correct. Failure to do so results in the risk of explosion, damage, and the like.</li></ul>	

## 4. General Precautions

Also note the following precautions. Incorrect handling may cause failure, injury, electric shock, and the like.

### (1) Transportation and Installation

#### ⚠ CAUTION

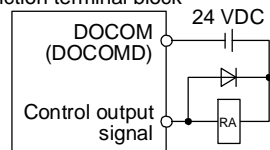
- This product is a precision instrument. During transportation, avoid impacts larger than those specified in general specifications. Failure to do so results in the risk of failure.
- Do not stand or rest heavy objects on the product.
- Do not install or operate units that are damaged or have missing parts.
- This product is a precision instrument. Do not drop or apply strong impact to the product.
- Use this product in an environment that reflects the general specifications set forth in the User's Manual. Usage in an environment outside of the scope of the general specifications results in the risk of electric shock, fire, malfunction, product damage, and/or product deterioration.
- When handling the product, be careful of sharp areas such as product corners.
- Be sure to place this product inside a metal enclosure.
- Reliably secure the module using a DIN rail. If the module is not properly mounted, risk of malfunction, failure, and falling results. If using the product in an environment with high vibration, secure the product with screws.
- Fumigants that contain halogen materials such as fluorine, chlorine, bromine, and iodine used for disinfecting and protecting wooden packaging from insects will cause malfunction in Mitsubishi Electric Engineering products. Please take necessary precautions to ensure that residual fumigants do not enter the product, or treat packaging with methods other than fumigation (heat method, etc.). Additionally, disinfect and protect wood from insects before packing.
- Noises are classified into external noises which enter the servo amplifier to cause it to malfunction and those radiated by the servo amplifier to cause peripheral equipment to malfunction. Since the servo amplifier is an electronic device which handles small signals, the general noise reduction techniques are required. Referring to the Servo Amplifier Instruction Manual for using, take the countermeasures.

### (2) Wiring

#### ⚠ CAUTION

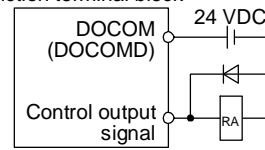
- This product is dedicated for general-purpose AC servo amplifiers and extension I/O units for general-purpose AC servo amplifiers manufactured by Mitsubishi Electric Corporation, and SSCNET-Compatible Hydraulic Control units manufactured by Mitsubishi Electric Engineering Company Limited. Do not use the product for the products other than the specified products. For the connectable models, refer to chapter 4.
- Be sure to wire the product correctly. Failure to do so results in the risk of unexpected servo motor operation.
- The connection drawings in this manual are based on a sink interface, unless otherwise specified.
- Be careful to properly set the orientation of the diodes for surge absorption, which are attached to the DC relay for servo amplifier control output signals. Incorrect orientation results in the risk of the servo amplifier failure, which can cause signal output failure and malfunction of protective circuits such as emergency stop.

General-purpose interface amplifier  
junction terminal block



For sink output  
interface

General-purpose interface amplifier  
junction terminal block



For source output  
interface

- Always verify that the wiring is properly secured to the terminal block. Failure to adequately secure the wiring results in the risk of poor contact, which can cause heat generation from the wiring and terminal block.
- Properly connect the wiring to the module after first verifying the module rated voltage and terminal layout. Inputting or connecting the power supply to voltage that differs from the rated voltage and miswiring result in the risk of fire and product failure.
- Securely install the connector to the module. Failure to do so results in the risk of malfunction.
- Be sure that foreign matter such as dust and wire shavings does not enter the module interior. Failure to do so results in the risk of fire, failure, and malfunction.
- Be sure to secure the power lines and cables connected to the module by clamping them or placing them in a duct. If not, dangling cables may swing, move, or inadvertently be pulled, resulting in damage to the module or cables, or malfunction due to poor cable connection.

 CAUTION

- When disconnecting the cable connected to the module, do not pull the cable by the cable part. For cables with connectors, take hold of the connector connected to the module and then disconnect the connector. For cables connected to the terminal block, unlock the terminal board spring lock and then disconnect the connector. Pulling the connected cable may result in malfunction or damage to the module or cable.
- When connecting the servo amplifier, etc., verify that the product configuration is correct. Connecting the servo amplifier with a wrong configuration results in the risk of failure and malfunction.

(3) Usage

 CAUTION

- Do not disassemble, repair, or modify the product.
- Never attempt to burn or disassemble the product. Doing so may cause generation of poisonous gas.
- Be careful when changing the output device assignments in servo amplifier parameters. Changing the MBR (electromagnetic brake interlock) signal assignments, in particular, may cause unexpected operation of the servo motor, damage, falling, and malfunction.

(4) Emergency Handling

 CAUTION

- Ensure safety by confirming the power off, etc. before performing corrective actions. Otherwise, it may cause an accident.

(5) Maintenance and Inspection

 CAUTION

- Before removing or installing the module, cut off all phases of the power supply externally. Failure to do so may cause module failure, malfunction, or damage.
- Connection/disconnection of the cables after the first use of the product shall be limited to 50 times.
- Before handling the module, touch a grounded metal object to discharge the static electricity from your body. Failure to release the static electricity may cause the module to fail or malfunction.

(6) General Instruction

 CAUTION

- When disposing of this product, treat it as industrial waste.

## REVISIONS

\*The manual number is noted on the lower left of the back cover.

Print Date	*Manual Number	Revision	
April 2017	50EN-070184-A	First edition	
May 2019	50EN-070184-B	4. General Precautions Chapter 1 Chapter 2 Chapter 3 Chapter 4 Chapter 5 Section 6-1 Section 6-2 Section 6-3 Section 6-4 Section 6-5 Section 8-1 Section 8-2 Section 8-3 Section 8-4 Chapter 9	Correction of errors The sentences are changed. The table is changed. The table is changed. The table is changed. Note is added. The part of diagram is changed. Partially changed. Partially changed. The sentences are changed. Correction of errors Newly added. Partially changed. The part of diagram is changed. The diagram is changed. The diagram is changed. The diagram is changed. Note is changed.
May 2023	50EN-070184-C	Front cover Chapter 1 Chapter 4  Section 6-1  Section 6-2 Section 7-3 Section 8-1 Section 8-2 Section 8-4	The product name is partially changed. The product name is partially changed. Connection models are added. The product name is partially changed. Connection servo amplifiers are added. The product name is partially changed. The product name is partially changed. The product name is partially changed. Connection servo amplifiers are added. (5) is added. The product name is partially changed.

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## 1. OVERVIEW

This User's Manual describes the specifications of the general-purpose interface amplifier junction terminal block DG2SV1TB (herewith described as DG2SV1TB) used with general-purpose AC servo amplifiers and extension I/O units for general-purpose AC servo amplifiers manufactured by Mitsubishi Electric Corporation, and SSCNET-Compatible Hydraulic Control units manufactured by Mitsubishi Electric Engineering Company Limited.

## 2. GENERAL SPECIFICATIONS

Item		Specifications
Ambient temperature	Operating	0°C to 55°C (non-freezing)
	Storage	-20°C to 65°C (non-freezing)
Ambient humidity	Operating	5 %RH to 90 %RH (non-condensing)
	Storage	
Ambience		Indoors (no direct sunlight), free from corrosive gas, flammable gas, oil mist, dust, and dirt
Altitude		2000 m or less above sea level
Vibration resistance		5.9 m/s <sup>2</sup> , at 10 to 55 Hz (in X, Y and Z directions)

## 3. PERFORMANCE SPECIFICATIONS

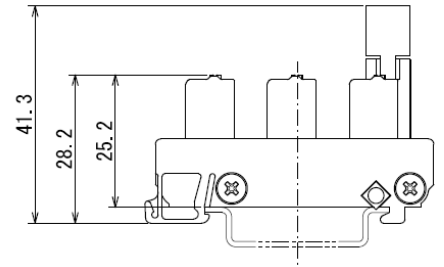
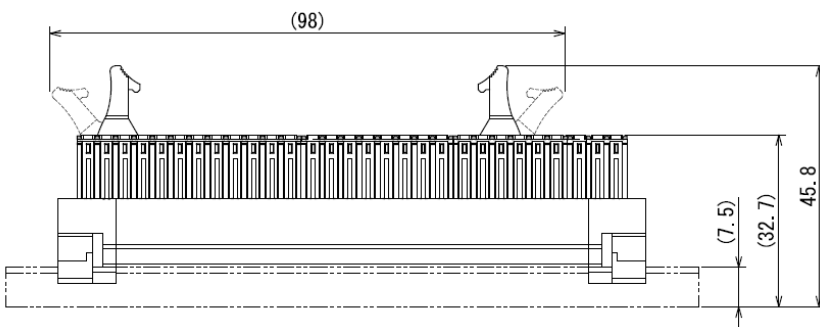
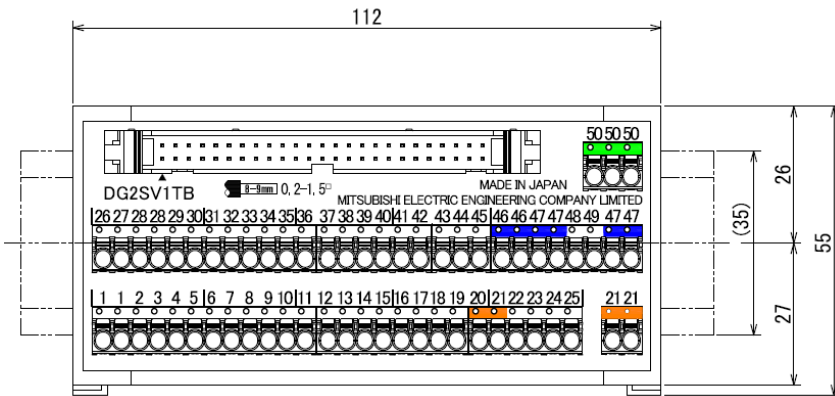
Item		Model	DG2SV1TB
External power supply	Voltage		24 VDC ±10 %
	Maximum working current		1A
Terminal block section	Number of points		60 points (wire: 1 /wire insertion hole)
	Applicable wire		Solid wire, twisted wire: 0.2 to 1.5 mm <sup>2</sup> (AWG 24 to 16) film φ2.8 mm or less
	Wire strip length		8 to 9 mm (Maximum wire film dimension φ2.8 mm or less)
Global compliance standard	UL standard		UL61800-5-1
Module mounting	DIN rail		Applicable DIN rail: TH35-7.5Fe, TH35-7.5Al (IEC60715 compliant)
Weight			Approx. 80 g

## 4. CONNECTABLE MODELS AND CONNECTION CABLE

Connectable model		Connection cable model
MELSERVO-J5 general-purpose compatible Servo amplifier	MR-J5-_A_(-RJ)	DG4SV1CB05 (Length: 0.5 m) DG4SV1CB10 (Length: 1 m)
MELSERVO-J4 general-purpose compatible Servo amplifier	MR-J4-_A_(-RJ) MR-J4-03A6(-RJ) MR-J4-_DU_A_(-RJ)	
MELSERVO-J4 extension I/O unit	MR-D01	
SSCNET-Compatible Hydraulic Control unit	DG2AF3N(-P01)	DG4AF3CB05 (Length: 0.5 m) DG4AF3CB10 (Length: 1 m)

\*1: MELSERVO is a registered trademark of Mitsubishi Electric Corporation.

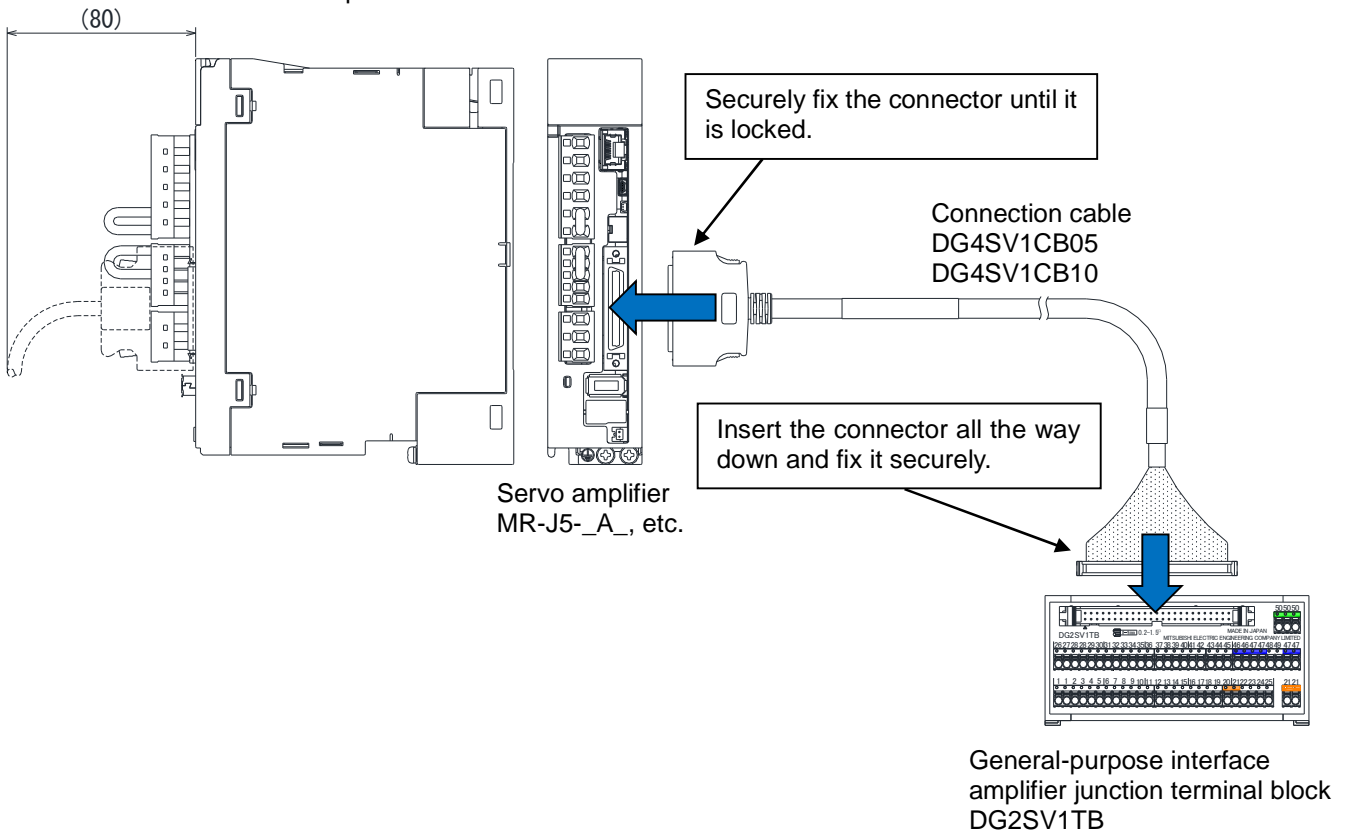
## 5. DIMENSIONS



[Unit: mm]

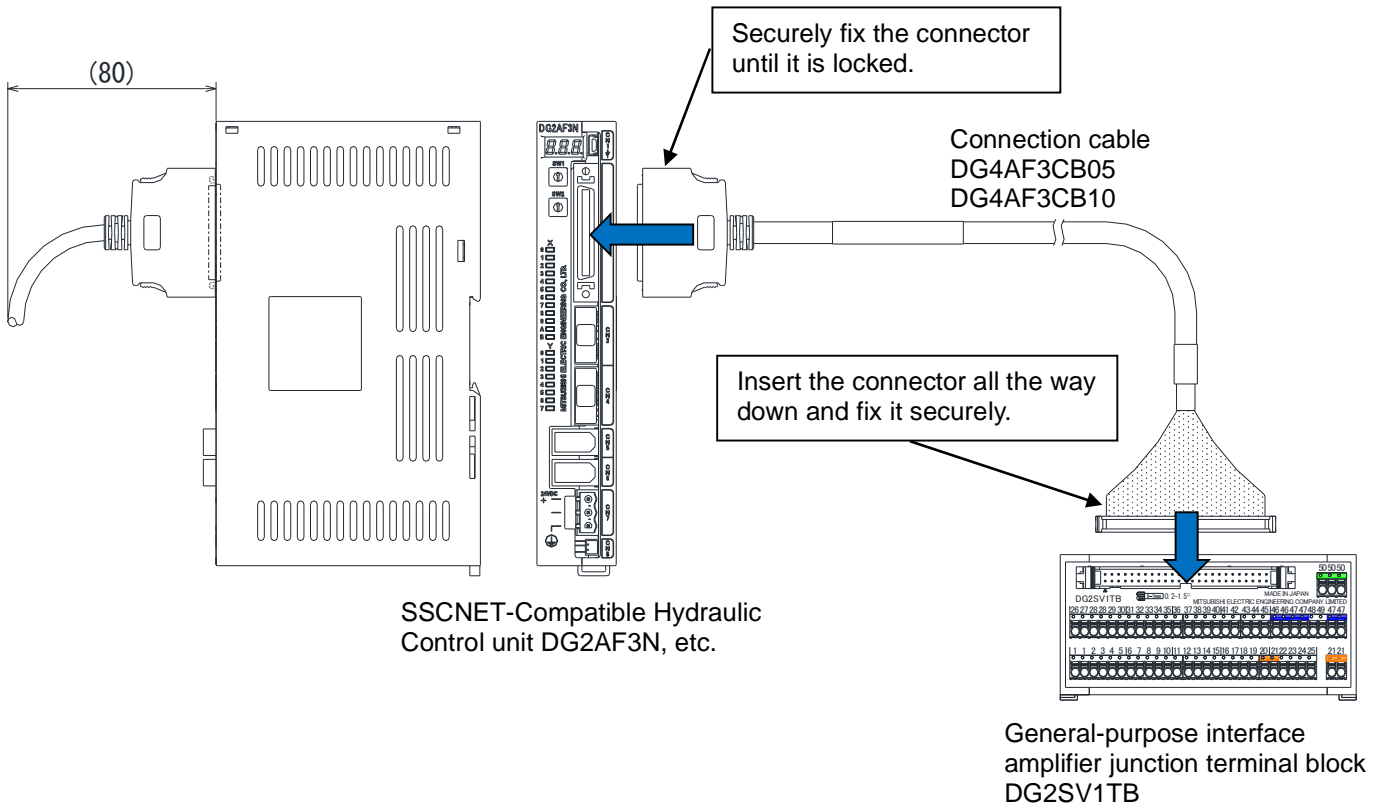
## 6. INSTALLATION PROCEDURE

### 6-1. Connection with servo amplifier





6-2. Connection with SSCNET-Compatible Hydraulic Control unit

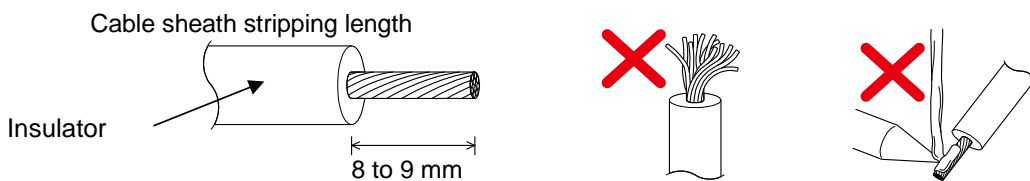


6-3. Wiring to spring clamp terminal block

(1) Cable routing

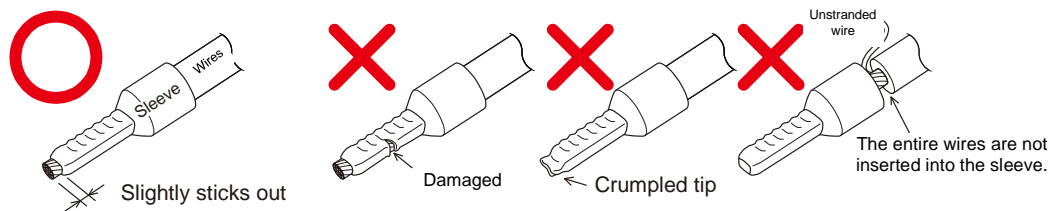
(a) Fabrication on cable insulator

Strip the cable as follows. If the length of the sheath peeled is too long, a short circuit may occur with neighboring wires. If the length is too short, wires might come off. Wire the stripped cable after twisting it to prevent it from becoming loose. In addition, do not solder it.



(b) Using a ferrule terminal

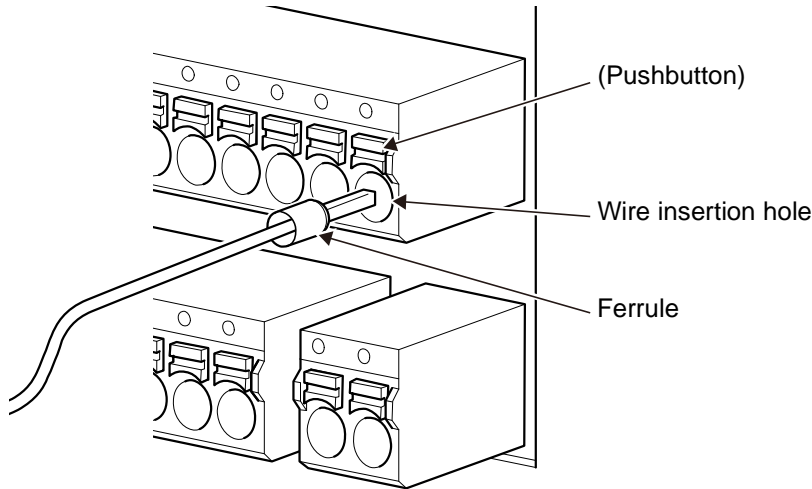
Insert wires to a ferrule terminal and crimp it. Make sure that core wire slightly comes out of the ferrule. Check the condition of the ferrule terminal after crimping. Do not use a ferrule terminal of which the crimping is inappropriate, or the face is damaged.



Refer to chapter 9 for the applicable ferrule terminal.

(c) Inserting cable

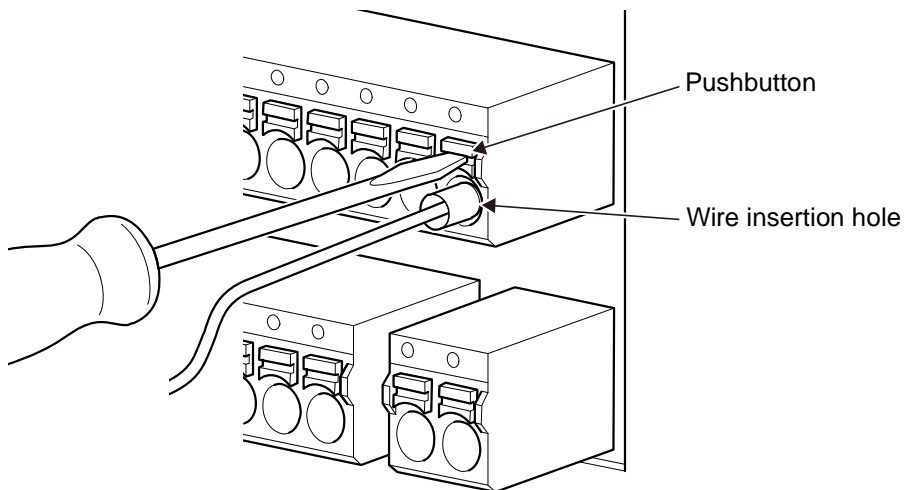
The cable with ferrule or solid cable can be inserted into the cable insertion hole. After inserting, pull the wire lightly to confirm that the cable is surely connected.



When binding twisted wires, press the push button using the screw driver, then insert the twisted wires into the cable insertion hole.

(2) Cable removal

Press the push button all the way using the screw driver, then pull out the wire.



Use the screw driver shown in the table below.

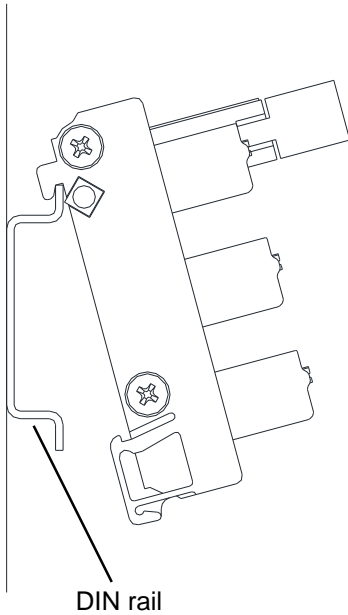
Recommended tool (screw driver)		
Manufacturer	Model	Blade edge size
WAGO Company of Japan, Ltd	210-119SB (Mini type)	2.5 x 0.4 mm
	210-719 (Insulation shaft type)	

#### 6-4. Attaching/detaching to the DIN rail

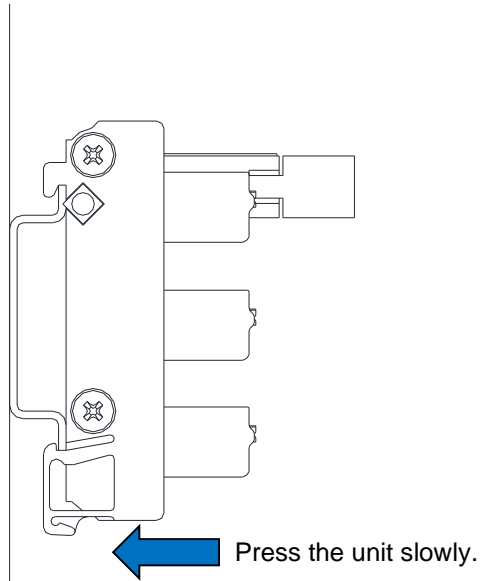
##### (1) Mounting to the DIN rail

- 1) Place the DIN rail mounting groove onto the DIN rail to fit in place.
- 2) Press the unit slowly toward the DIN rail until the unit clicks in place.

[1]



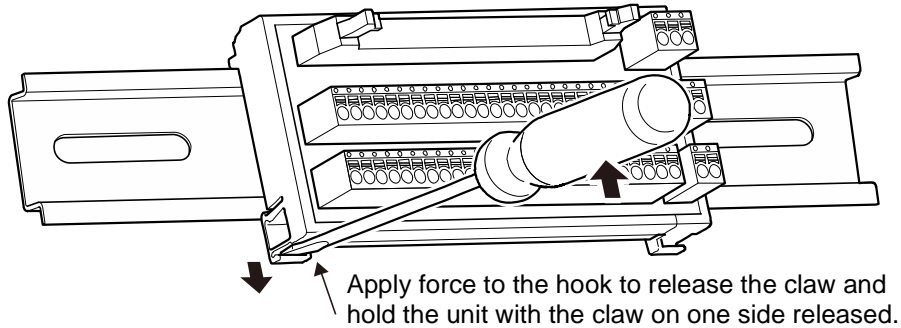
[2]



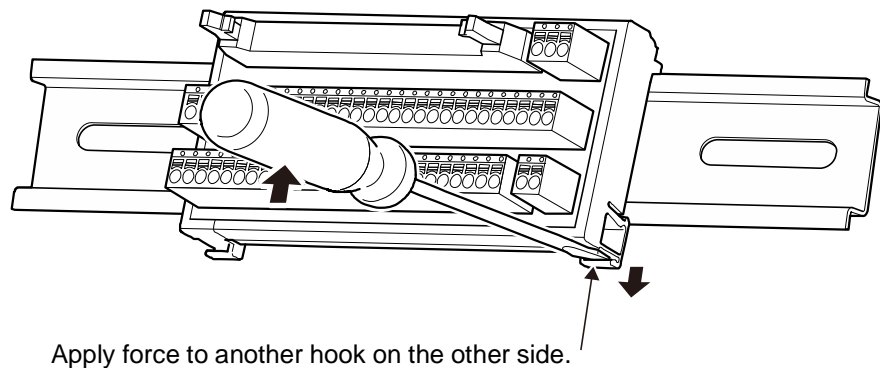
##### (2) Removal from the DIN rail

- 1) Insert a flathead screwdriver into the hook on one side and pry the screwdriver to release the claw. Hold the unit with the claw on one side released.
- 2) Insert the screwdriver into the hook on another side and pry the screwdriver to detach the unit from the DIN rail.

[1]



[2]

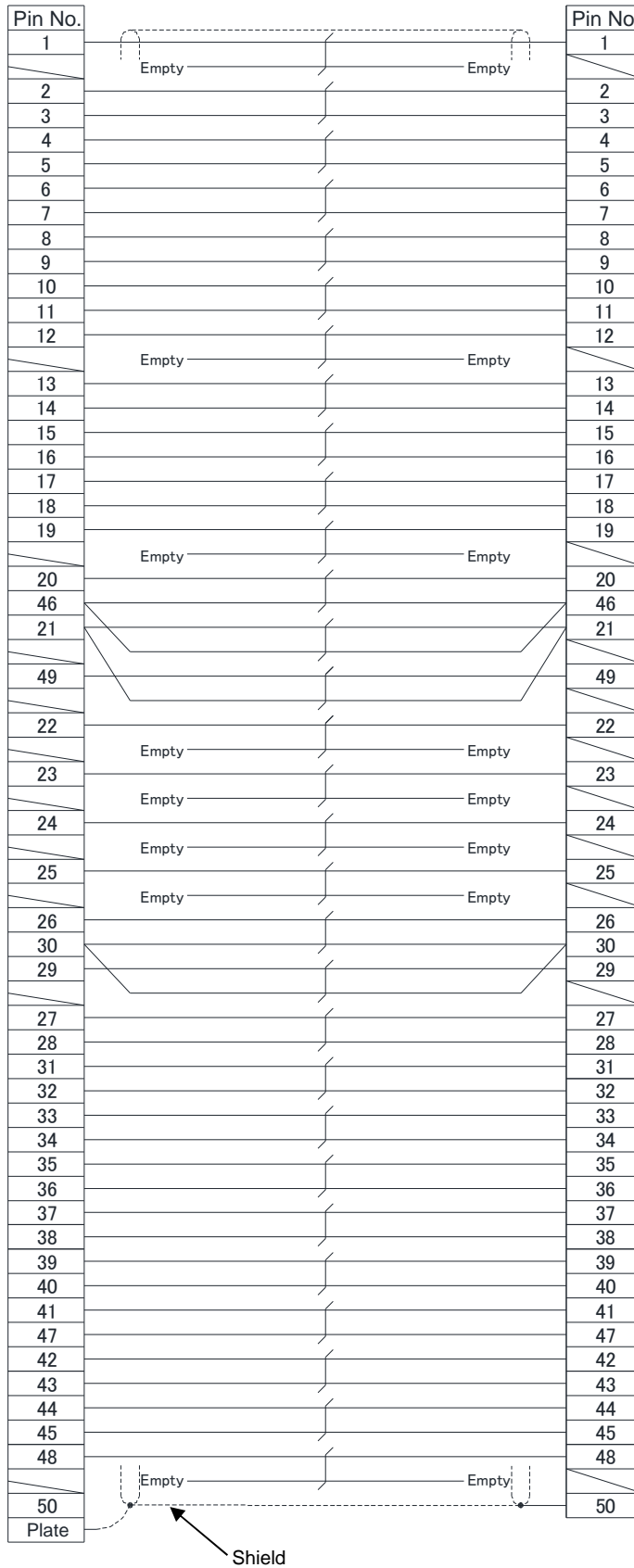




7-2. Connection diagram of DG4SV1CB\_

10150-6000EL  
(servo amplifier side)

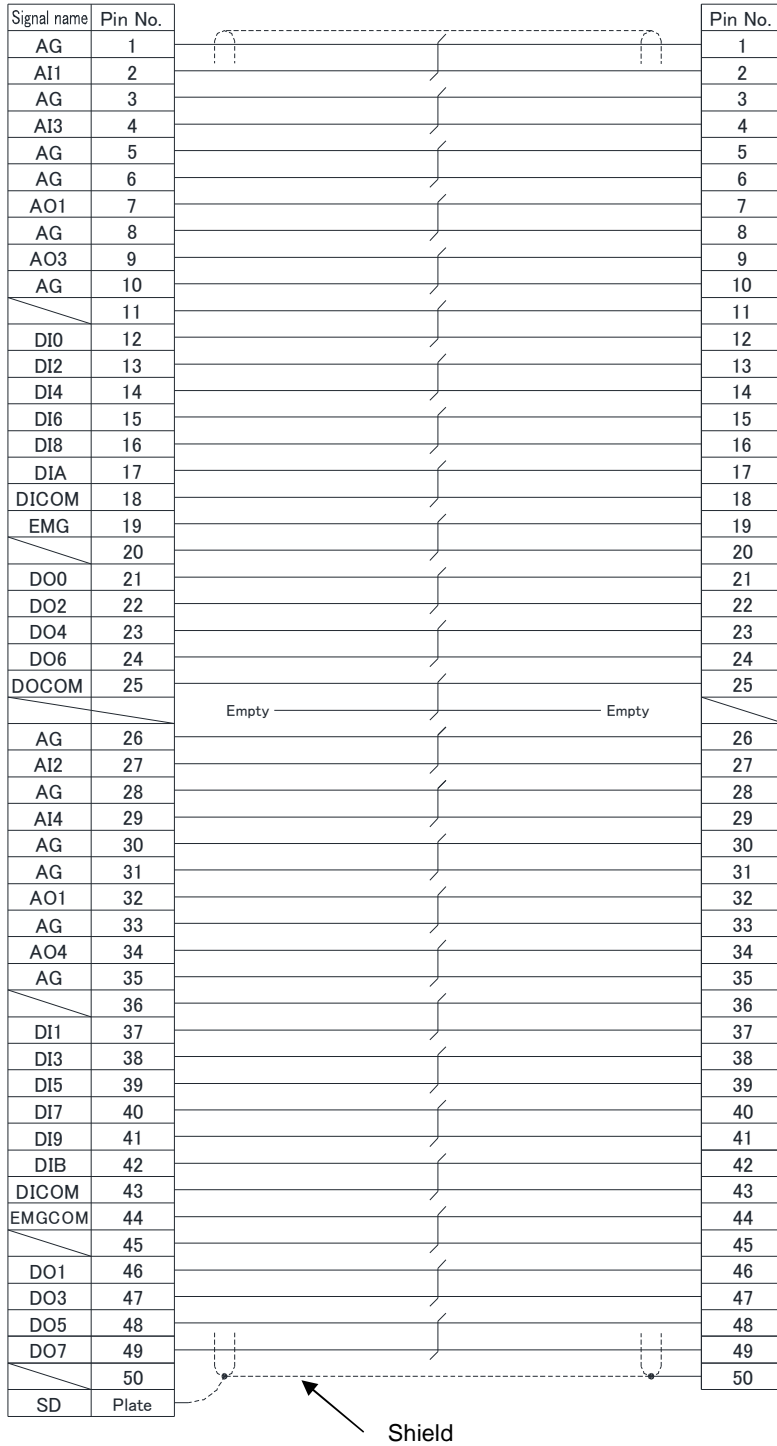
D7950-B500FL  
(junction terminal block side)



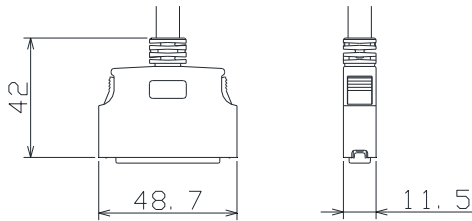
7-3. Connection diagram of DG4AF3CB\_

10150-6000EL  
(SSCNET-Compatible Hydraulic  
Control unit side)

D7950-B500FL  
(junction terminal block side)



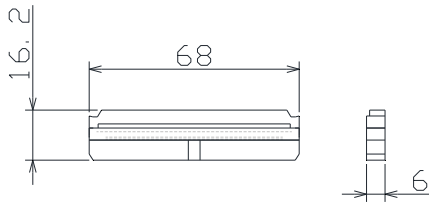
7-4. Connector dimensions  
 (1) Connection unit side



Connector	Shell kit	Manufacturer
10150-6000EL	10350-3210-000	3M Japan Limited

[Unit: mm]

(2) DG2SV1TB side



Socket connector	Strain relief	Manufacturer
D7950-B500FL	D3448-7950	3M Japan Limited

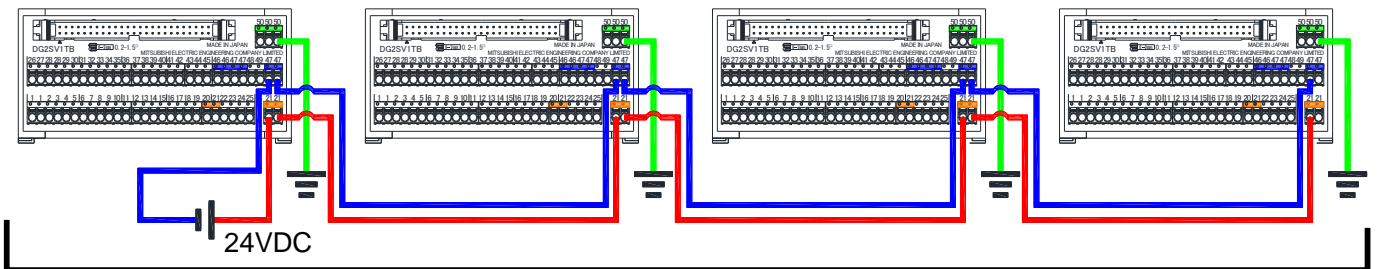
[Unit: mm]

## 8. EXTERNAL CONNECTION EXAMPLE

8-1. Branch of digital interface power supply

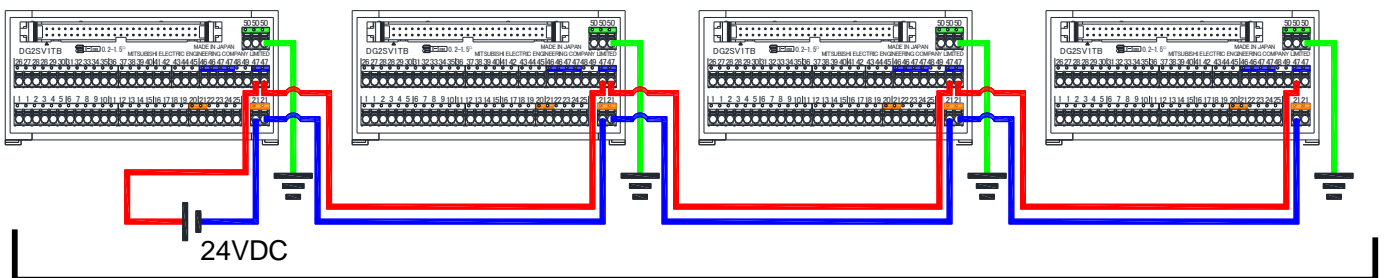
When this unit is connected with a servo amplifier, up to four digital interface power supplies can be connected.  
 Target servo amplifier: MR-J5-\_A\_(-RJ), MR-J4-\_A\_(-RJ), MR-J4-03A6(-RJ), MR-J4-\_DU\_A\_(-RJ)

(1) For sink I/O interface



Up to four digital interface power supplies can be connected.

(2) For source I/O interface

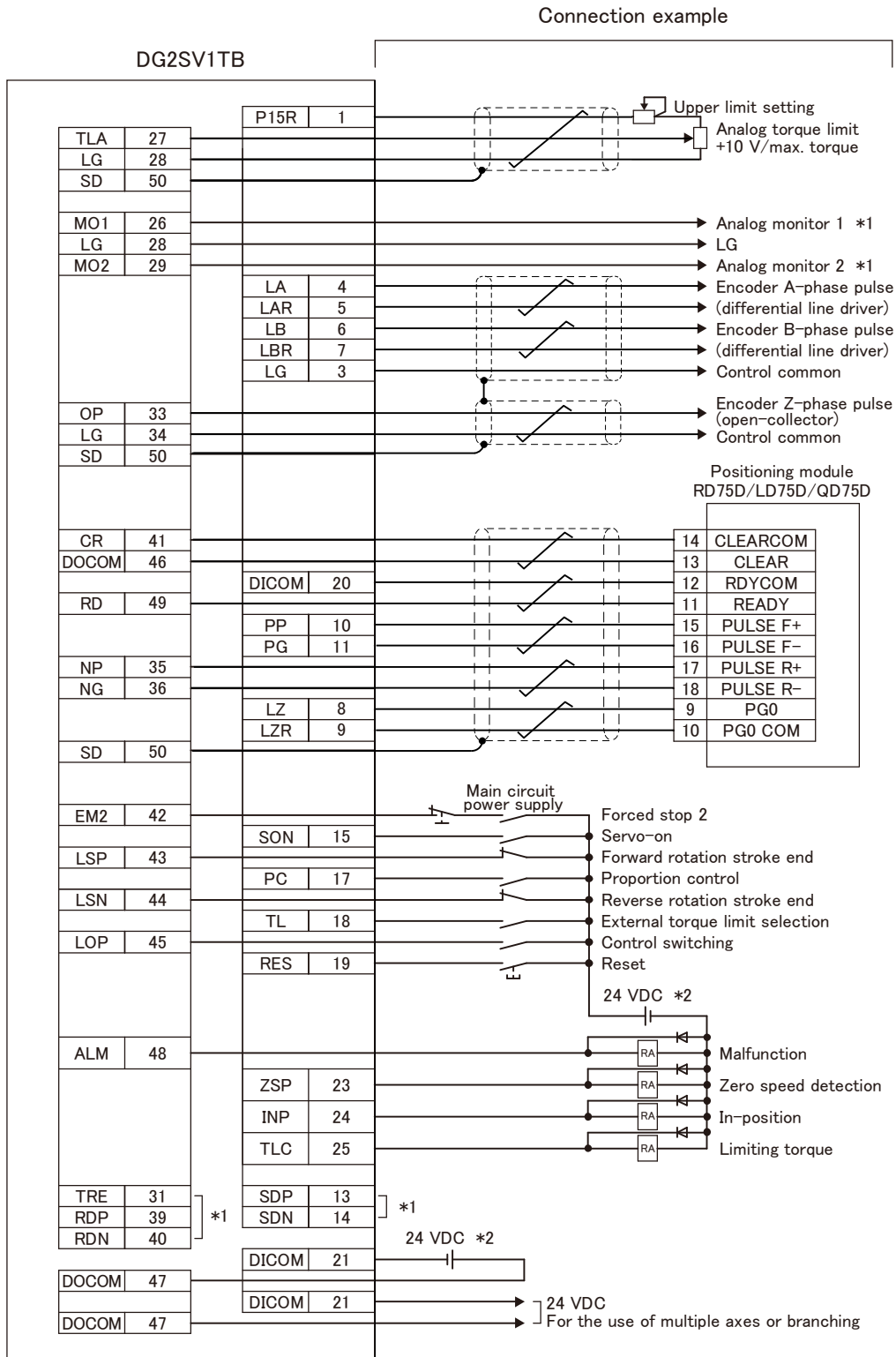


Up to four digital interface power supplies can be connected.





2) For source I/O interface



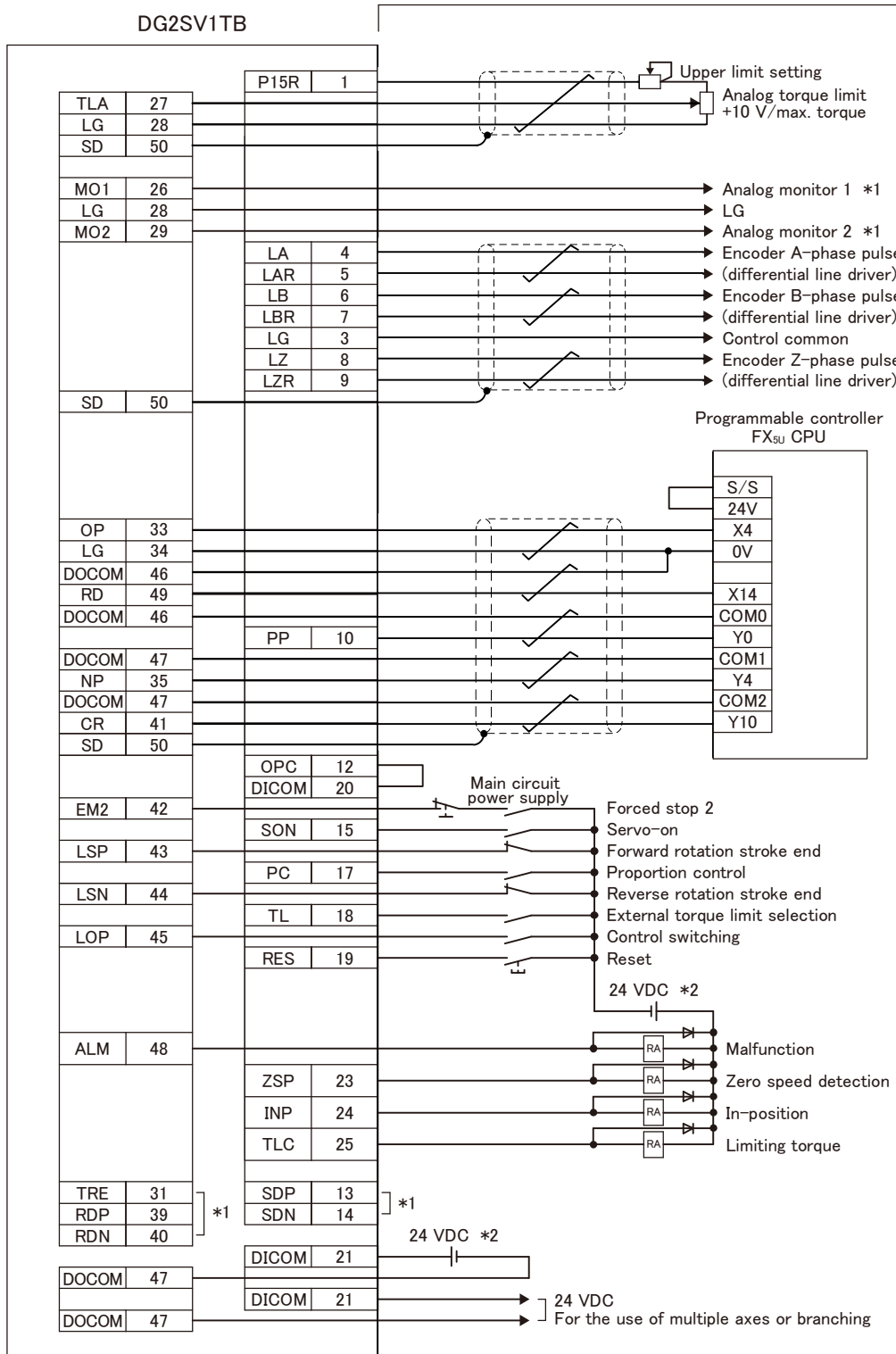
\*1: MR-J4-03A6(-RJ) only

\*2: The illustration of the 24 VDC power supply is divided for convenience. However, they can be configured by one.

\*3: For actual wiring, be sure to refer to the Servo Amplifier Instruction Manual and Servo Motor Instruction Manual for each product.

(2) Position control mode Open-collector type  
 1) For sink I/O interface

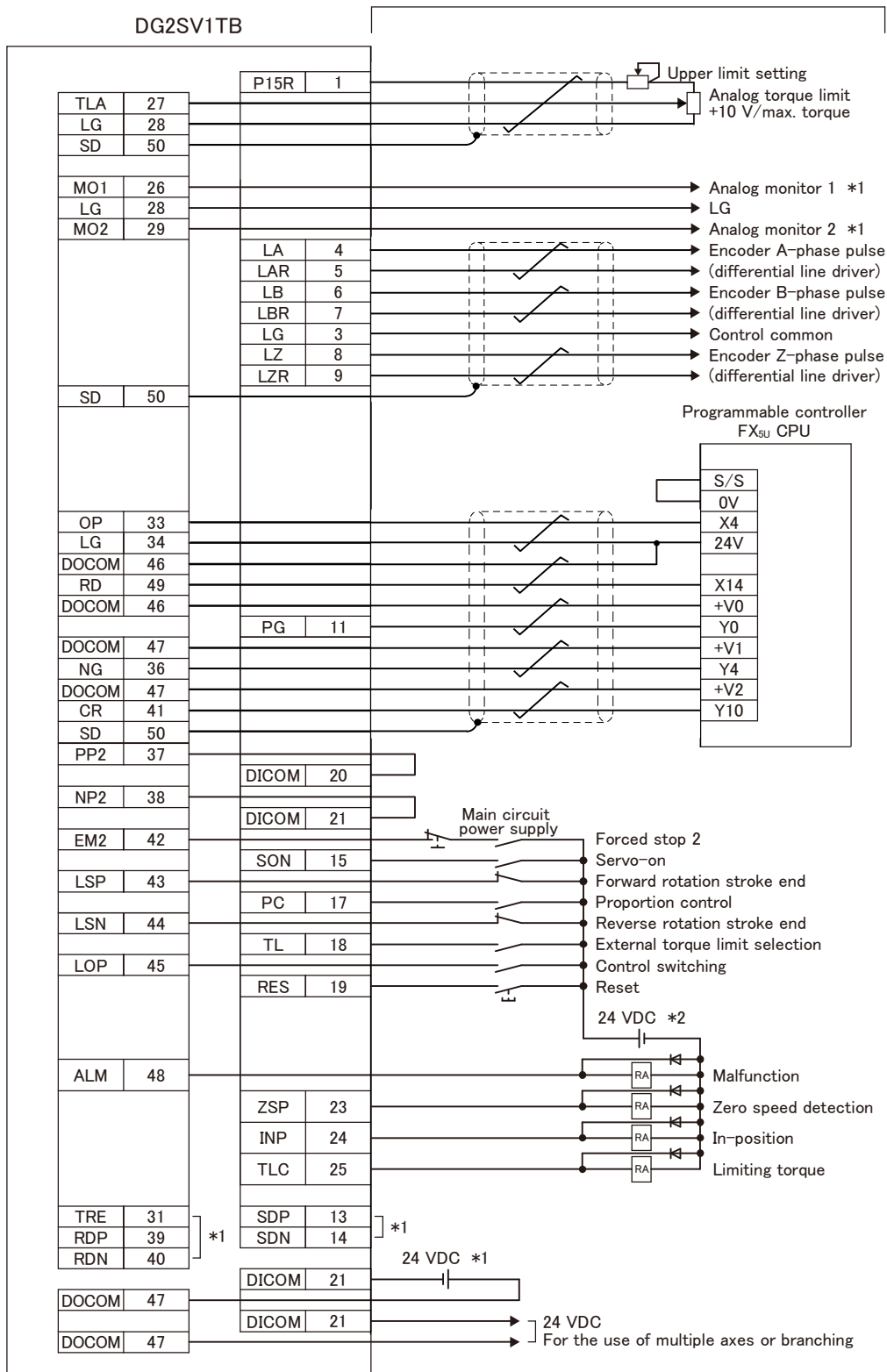
Connection example



- \*1: MR-J4-03A6(-RJ) only
- \*2: The illustration of the 24 VDC power supply is divided for convenience. However, they can be configured by one.
- \*3: For actual wiring, be sure to refer to the Servo Amplifier Instruction Manual and Servo Motor Instruction Manual for each product.

2) For source I/O interface

Connection example

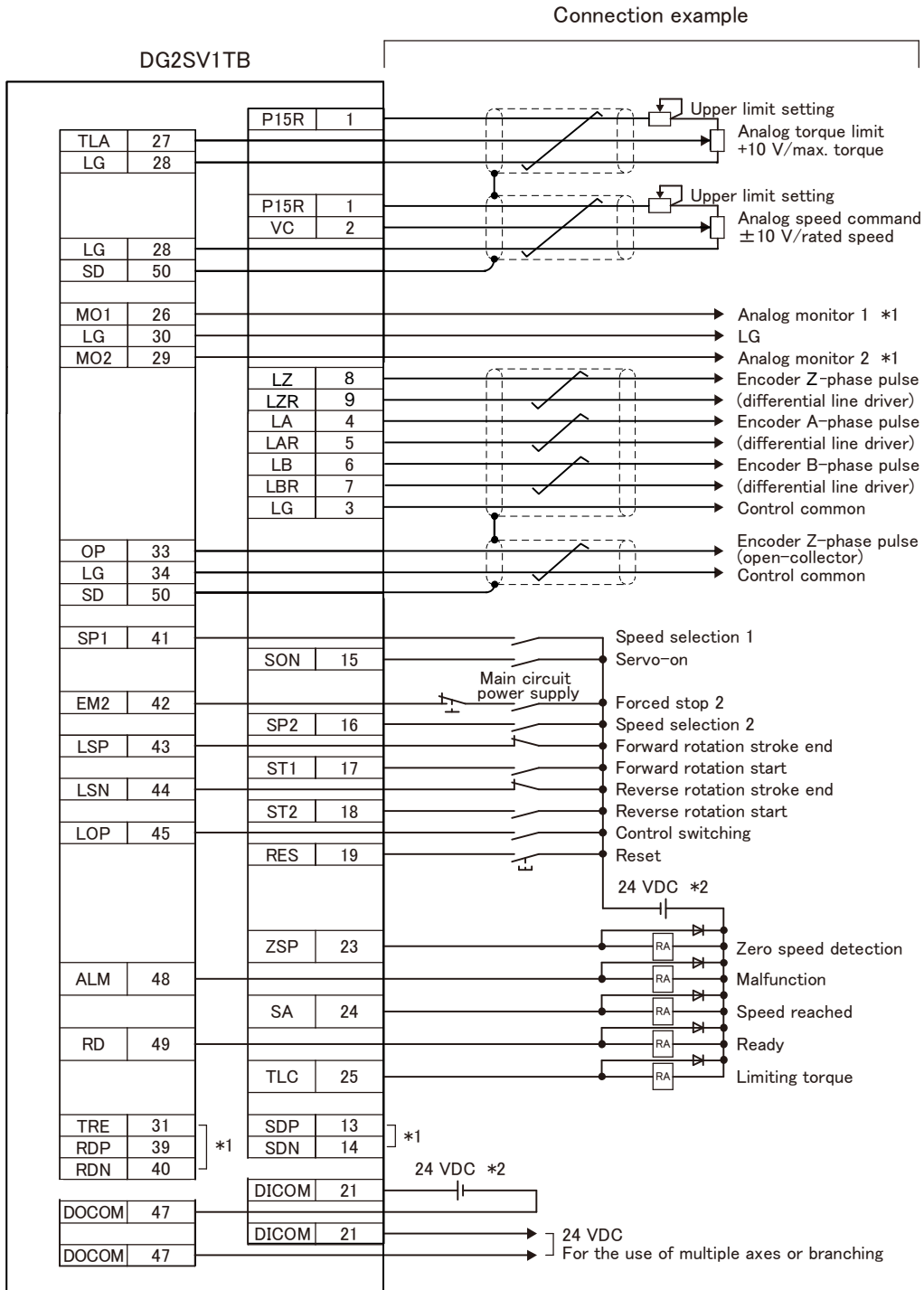


\*1: MR-J4-03A6(-RJ) only

\*2: The illustration of the 24 VDC power supply is divided for convenience. However, they can be configured by one.

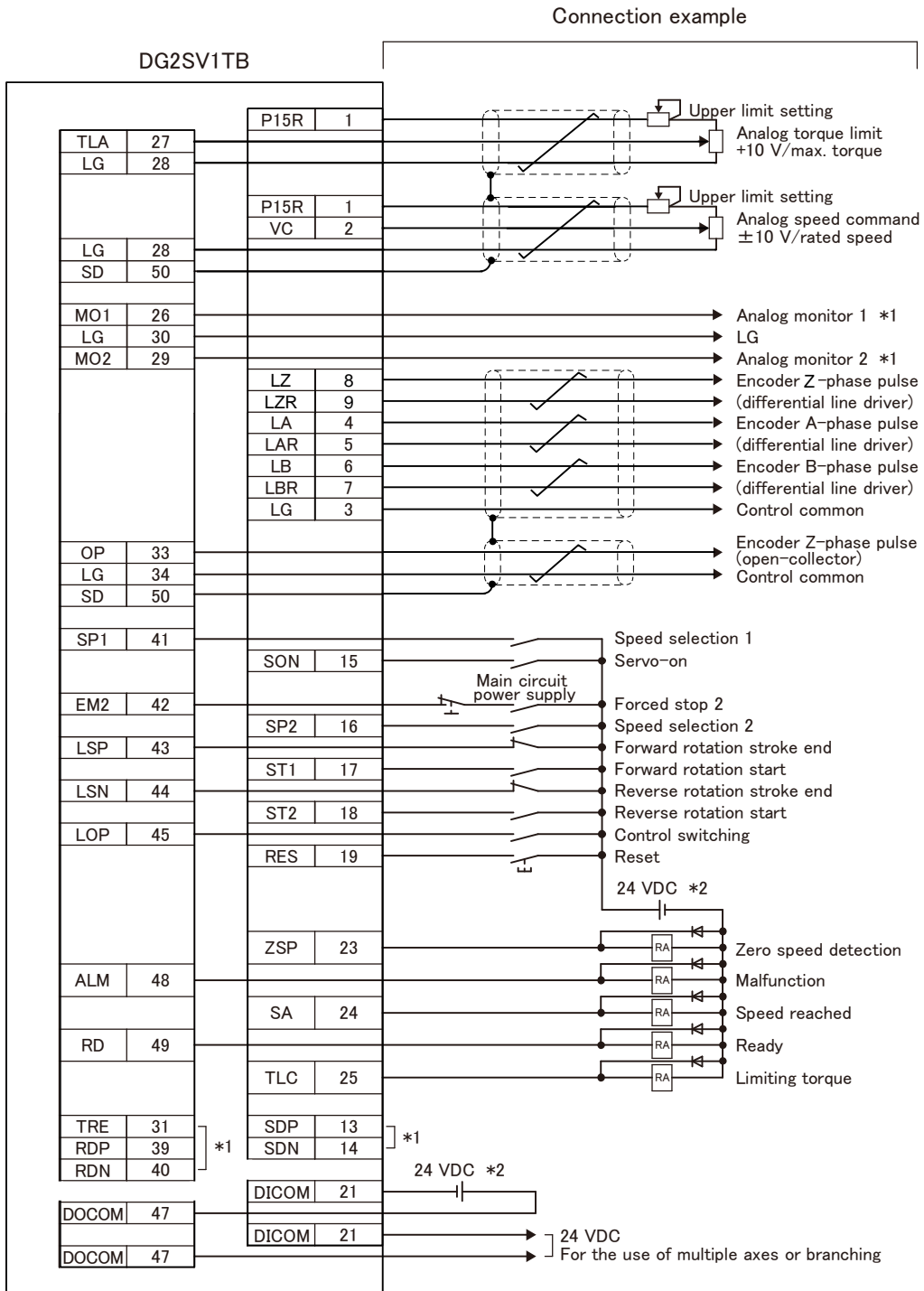
\*3: For actual wiring, be sure to refer to the Servo Amplifier Instruction Manual and Servo Motor Instruction Manual for each product.

- (3) Speed control mode
  - 1) For sink I/O interface



- \*1: MR-J4-03A6(-RJ) only
- \*2: The illustration of the 24 VDC power supply is divided for convenience. However, they can be configured by one.
- \*3: For actual wiring, be sure to refer to the Servo Amplifier Instruction Manual and Servo Motor Instruction Manual for each product.

2) For source I/O interface

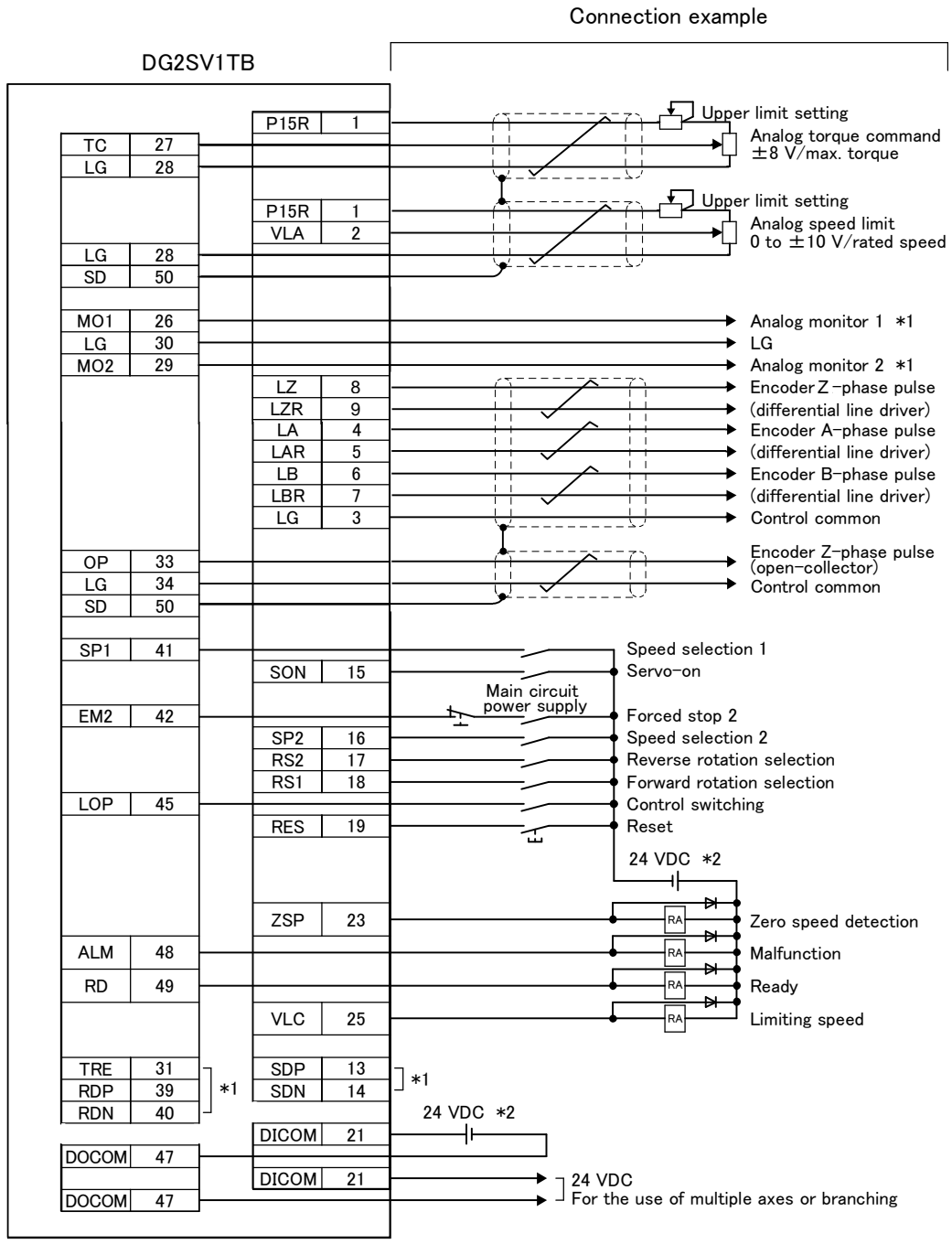


\*1: MR-J4-03A6(-RJ) only

\*2: The illustration of the 24 VDC power supply is divided for convenience. However, they can be configured by one.

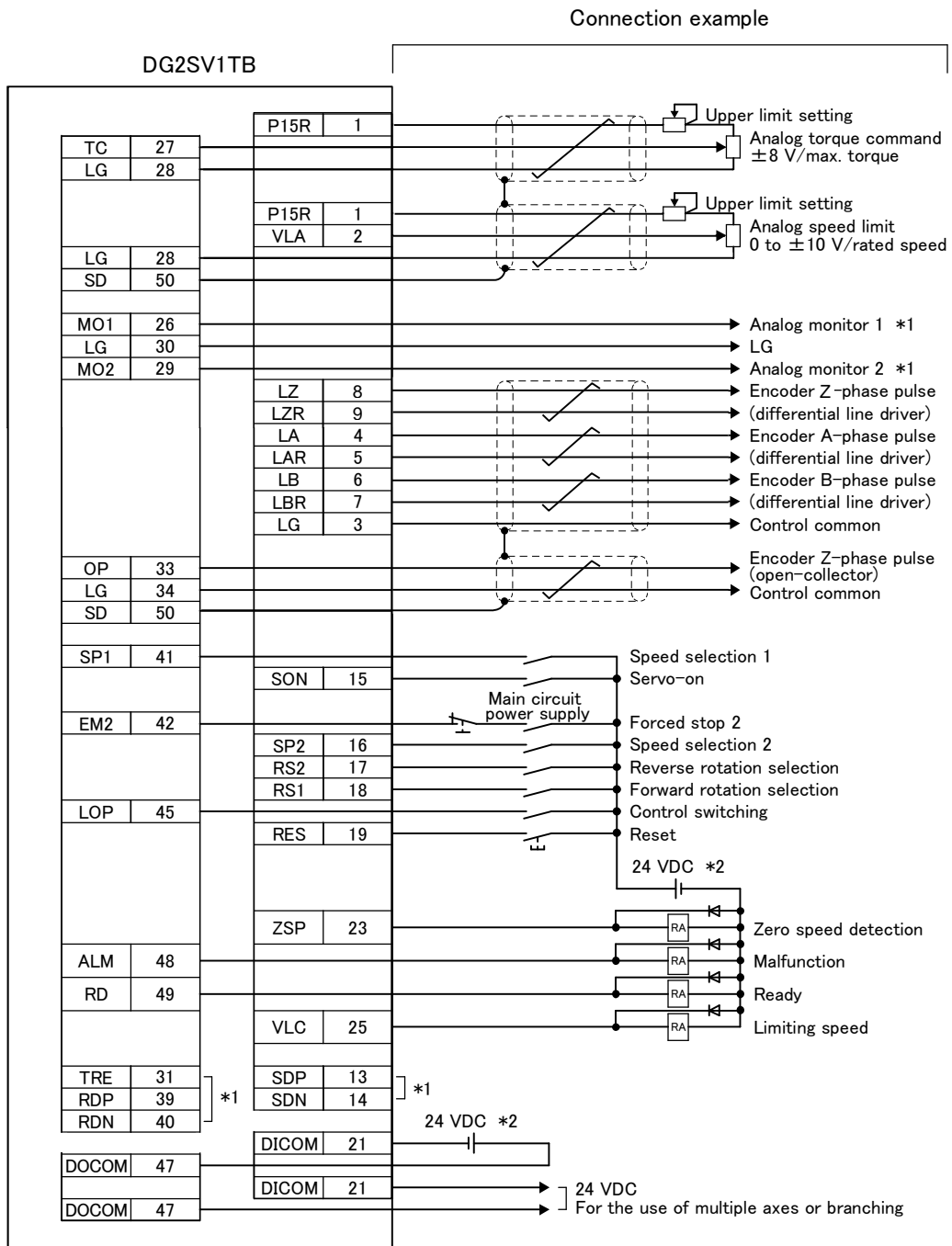
\*3: For actual wiring, be sure to refer to the Servo Amplifier Instruction Manual and Servo Motor Instruction Manual for each product.

- (4) Torque control mode
  - 1) For sink I/O interface



\*1: MR-J4-03A6(-RJ) only  
 \*2: The illustration of the 24 VDC power supply is divided for convenience. However, they can be configured by one.  
 \*3: For actual wiring, be sure to refer to the Servo Amplifier Instruction Manual and Servo Motor Instruction Manual for each product.

2) For source I/O interface



\*1: MR-J4-03A6(-RJ) only

\*2: The illustration of the 24 VDC power supply is divided for convenience. However, they can be configured by one.

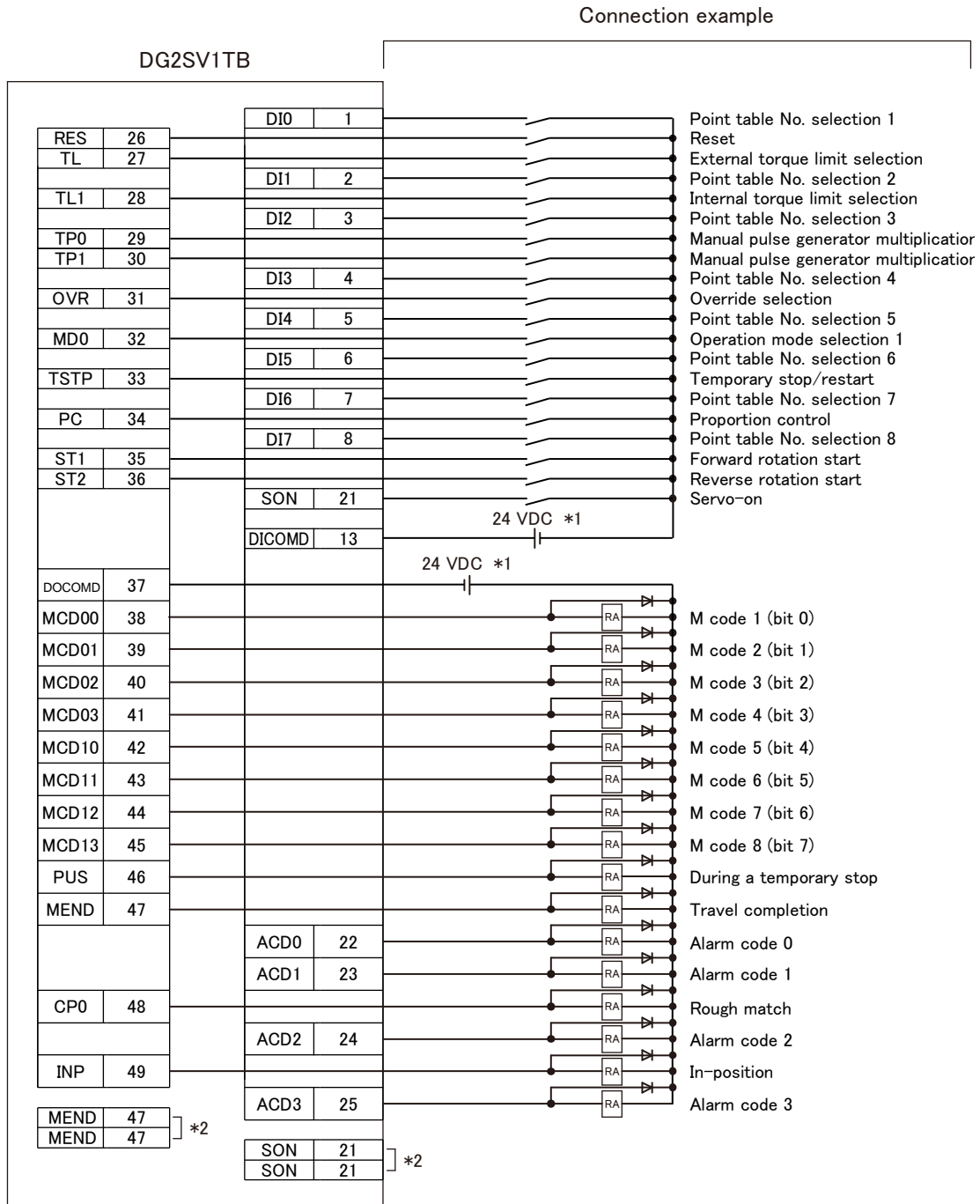
\*3: For actual wiring, be sure to refer to the Servo Amplifier Instruction Manual and Servo Motor Instruction Manual for each product.

(5) Positioning mode (MR-J4-\_A\_-RJ, MR-J4-03A6-RJ)

For details on device assignment of the CN1 connector in positioning mode, refer to your Servo Amplifier Instruction Manual.

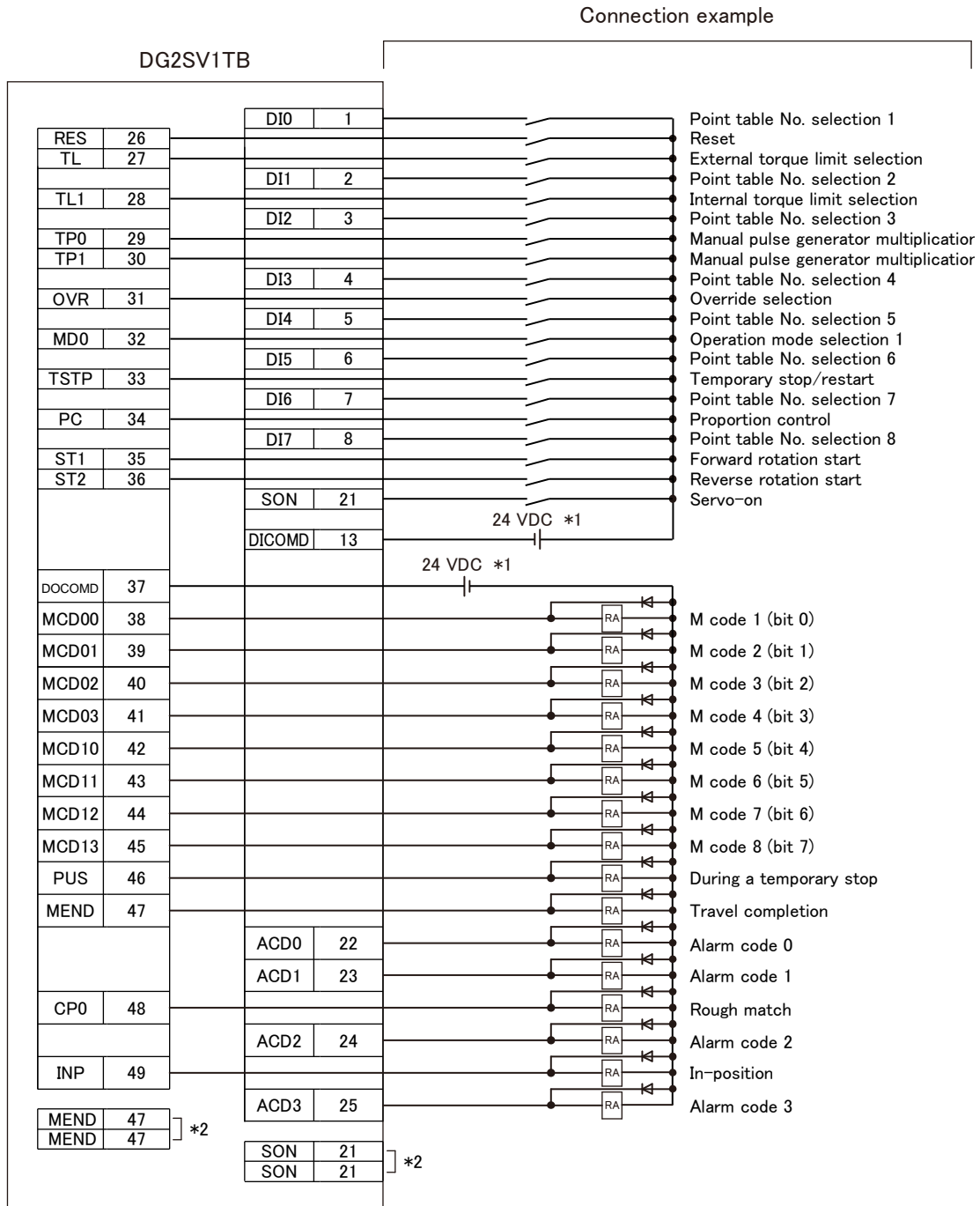


8-3. Connection with MR-D01  
 (1) Point table method  
 1) For sink I/O interface



- \*1: The illustration of the 24 VDC power supply is divided for convenience. However, they can be configured by one.
- \*2: When MR-D01 is used, the branch connection of the digital interface power supply is not available.
- \*3: For actual wiring, be sure to refer to the Servo Amplifier Instruction Manual and Servo Motor Instruction Manual for each product.

2) For source I/O interface



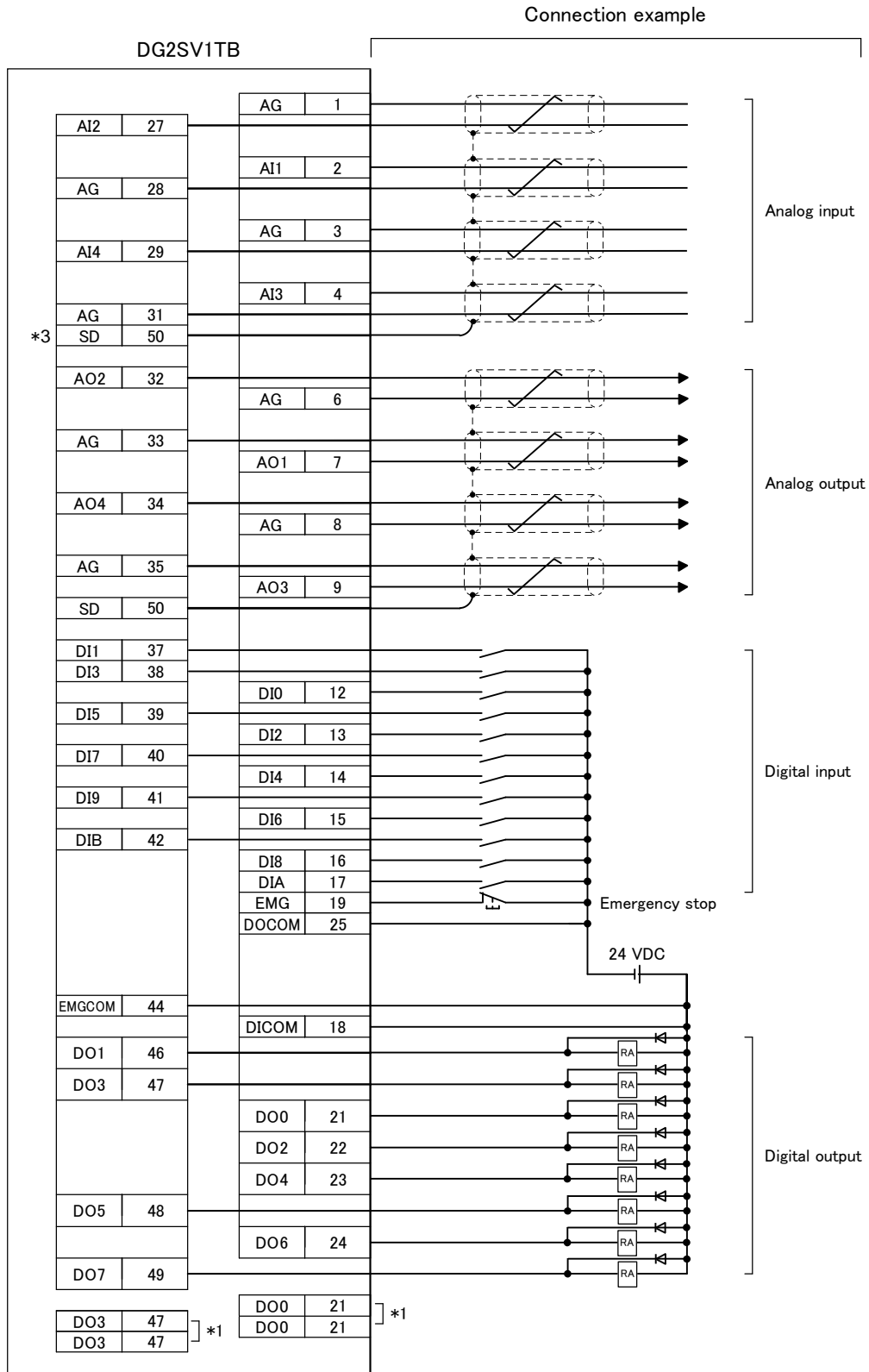
\*1: The illustration of the 24 VDC power supply is divided for convenience. However, they can be configured by one.

\*2: When MR-D01 is used, the branch connection of the digital interface power supply is not available.

\*3: For actual wiring, be sure to refer to the Servo Amplifier Instruction Manual and Servo Motor Instruction Manual for each product.

8-4. Connection with DG2AF3N(-P01)

1) For sink I/O interface



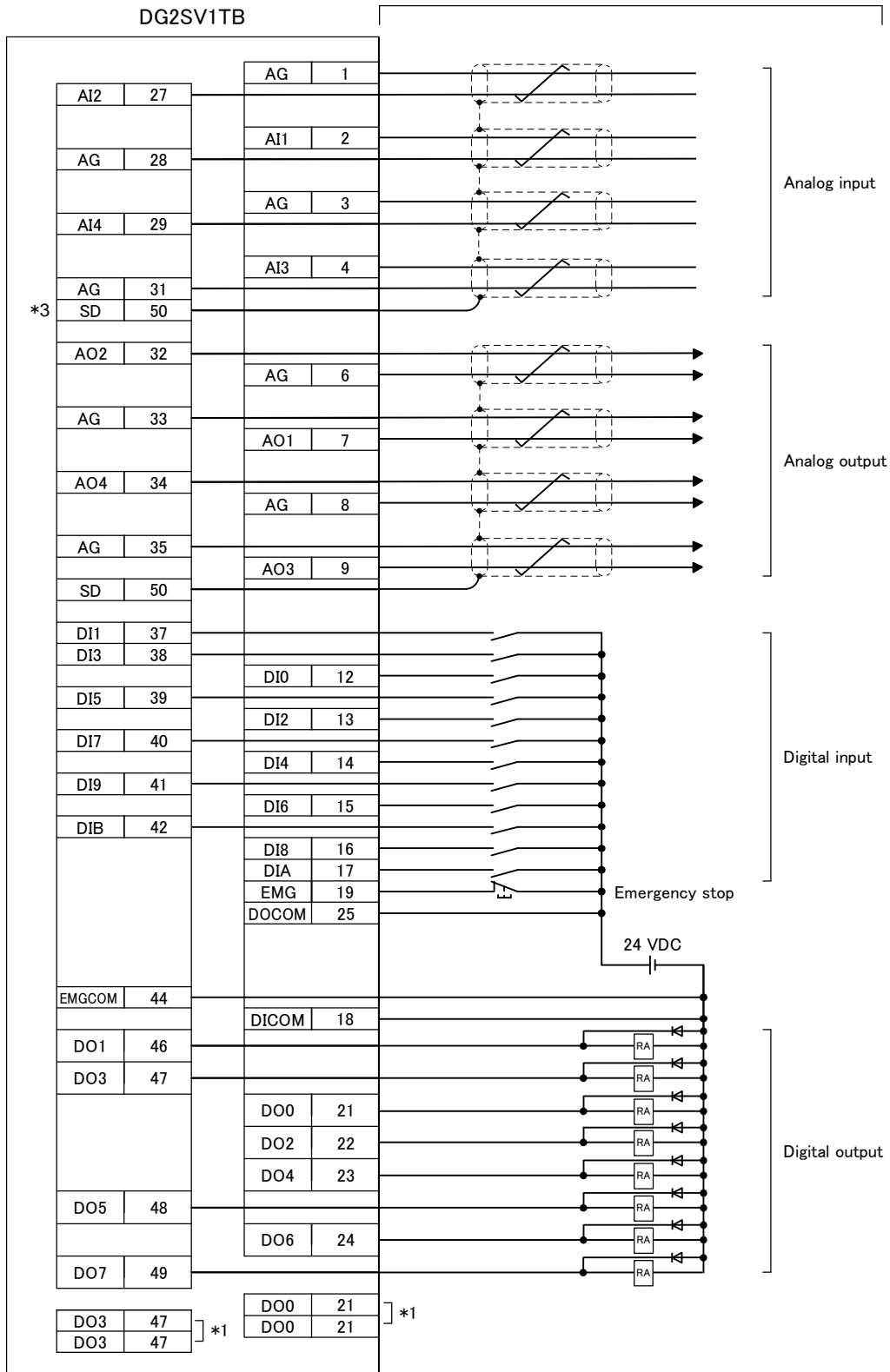
\*1: When the SSCNET-Compatible Hydraulic Control unit is used, branch connection of the digital interface power supply is not available.

\*2: For actual wiring, be sure to refer to the User's Manual (Hardware) and User's Manual (Detailed) for each product.

\*3: Pin No. 50 of this product is SD terminals. Do not connect DOCOM to them.

2) For source I/O interface

Connection example



- \*1: When the SSCNET-Compatible Hydraulic Control unit is used, branch connection of the digital interface power supply is not available.
- \*2: For actual wiring, be sure to refer to the User's Manual (Hardware) and User's Manual (Detailed) for each product.
- \*3: Pin No. 50 of this product is SD terminals. Do not connect DOCOM to them.

## 9. APPLICABLE CRIMPING TERMINAL

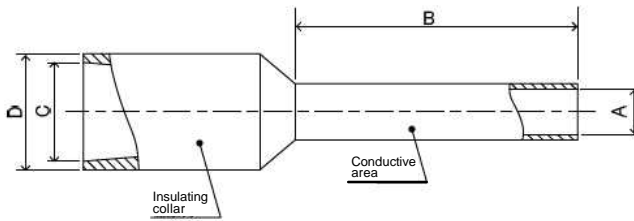
Type		Applicable ferrule terminal	Crimping tool
Manufacturer	Applicable wire size		
WAGO Company of Japan, Ltd	0.08 mm <sup>2</sup> to 0.34 mm <sup>2</sup> / AWG 28 to 22	216-302	206-220
	0.34 mm <sup>2</sup> / AWG 24 and 22	216-302	206-204
	0.5 mm <sup>2</sup> / AWG 22 and 20	216-201	
	0.75 mm <sup>2</sup> / AWG 20 and 18	216-202	

\*: The solid wire and stranded wire used are the UL-certified products.

### ● Ferrule dimensions

[Unit: mm]

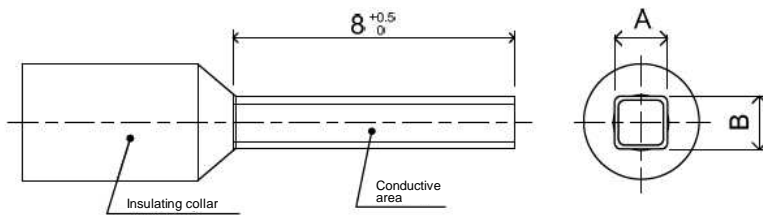
(1) Dimensions before crimping



Dimensions				
	A	B	C	D
MAX	1.3	8	2.8	3.5
MIN	0.8	8	2.0	-

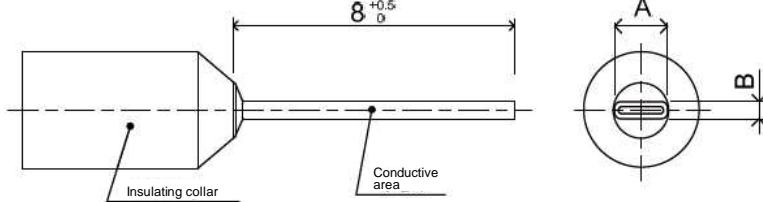
(2) Dimensions after crimping

1) When the crimping tool 206-204 is used



Dimensions*1		
	A	B
MAX	1.6	1.6
MIN	0.3	0.3

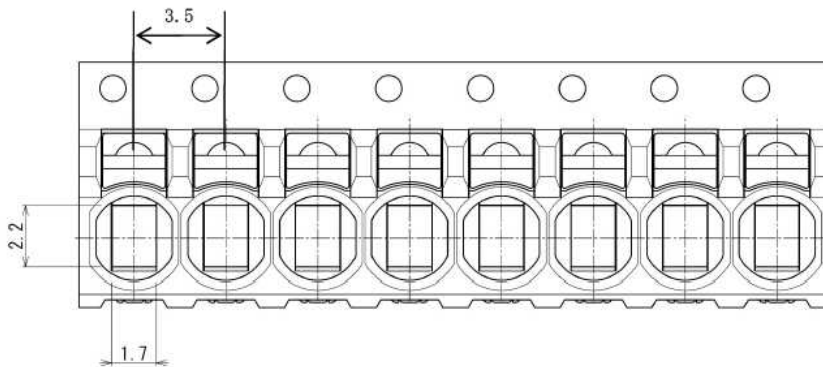
2) When the crimping tool 206-220 is used



\*1: The dimensions must not be smaller than 0.48 mm<sup>2</sup>.

### ● Shape of terminal block

[Unit: mm]



## [Warranty]

### 1. Warranty period and coverage

If any failure or defect hereinafter referred to as "failure" in our FA equipment hereinafter referred to as the "Product" has arisen during warranty period due to causes for which we are responsible, we will offer a substitute for the defective Product at no charge in exchange for the Product through the distributor from which you purchased the Product.

We are not responsible for any on-site readjustment and/or trial run that may be required after a defective unit are repaired or replaced.

## [Term]

The term of warranty for Product is twelve (12) months after your purchase or delivery of the Product to a place designated by you or eighteen (18) months from the date of manufacture whichever comes first ("Warranty Period").

Warranty period for repaired Product cannot exceed beyond the original warranty period before any repair work.

## [Limitations]

(1) This limited warranty applies only when the condition, method, environment, etc. of use are in compliance with the terms and conditions and instructions that are set forth in the instruction manual and User's Manual for the Product.

(2) Even during the term of warranty, the replacement cost will be charged on you in the following cases;

- (i) a failure caused by your improper storing or handling, carelessness or negligence, etc., and a failure caused by your hardware or software problem
- (ii) a failure caused by any alteration, etc. to the Product made on your side without our approval
- (iii) a failure recognized as avoidable if your equipment in which the Product is incorporated is equipped with a safety device required by applicable laws, or has any function or structure considered to be indispensable according to a common sense in the industry
- (iv) a failure recognized as preventable if consumable products specified in the instruction manual, etc. were normally maintained and replaced.
- (v) any replacement of consumable parts (relays, etc.)
- (vi) a failure caused by external factors such as inevitable accidents, including without limitation fire and abnormal fluctuation of voltage, and acts of God, including without limitation earthquake, lightning and natural disasters
- (vii) a failure generated by an unforeseeable cause with a scientific technology that was not available at the time of the shipment of the Product from our company
- (viii) any other failures which we are not responsible for or which you acknowledge we are not responsible for

### 2. Term of warranty after the stop of production

(1) We may accept the repair at charge for another seven (7) years after the production of the Product is discontinued.

The announcement of the stop of production for each model can be seen in our website MEEFAN.  
(URL: <https://www.mee.co.jp/sales/fa/meefan/>)

(2) Please note that the Product (including its spare parts) cannot be ordered after its stop of production.

### 3. Service in overseas countries

Service in overseas countries is out of the warranty.

### 4. Exclusion of loss in opportunity and secondary loss from warranty liability

Regardless of the gratis warranty term, Mitsubishi Electric Engineering shall not be liable for compensation to: damages caused by any cause found not to be the responsibility of Mitsubishi Electric Engineering, loss in opportunity and lost profits incurred to the user by failures of Mitsubishi Electric Engineering products, special damages and secondary damages whether foreseeable or not, compensation for accidents, compensation for damages to products other than Mitsubishi Electric Engineering products, replacement by the user, maintenance of on-site equipment, start-up test run, and other tasks.

### 5. Change of Product specifications

Specifications listed in our catalogs, manuals or technical documents may be changed without notice.

6. Conditions of use for the Product

(1) For the use of this Product, its applications should be those that may not result in a serious damage even if any failure or malfunction occurs in the equipment, and a backup or fail-safe function should operate on an external system to the equipment when any failure or malfunction occurs.

(2) This Product is designed and manufactured as a general purpose product for use at general industries.

Therefore, applications substantially influential on the public interest for such as atomic power plants and other power plants of electric power companies, and also which require a special quality assurance system, including applications for railway companies and government or public offices are not recommended, and we assume no responsibility for any failure caused by these applications when used.

In addition, applications which may be substantially influential to human lives or properties for such as airlines, medical treatments, railway service, incineration and fuel systems, man-operated material handling equipment, entertainment machines, etc. are not recommended, and we assume no responsibility for any failure caused by these applications when used.

Note that if the user consults with Mitsubishi Electric Engineering customer service in advance with regard to such an application and the user accepts that the application is to be limited and a special quality is not to be required, application shall be made possible upon exchange of required documents.

# MITSUBISHI ELECTRIC ENGINEERING COMPANY LIMITED

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Model	DG2SV1TB-MAN-E
50EN-070184-C(2305)MEE	

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