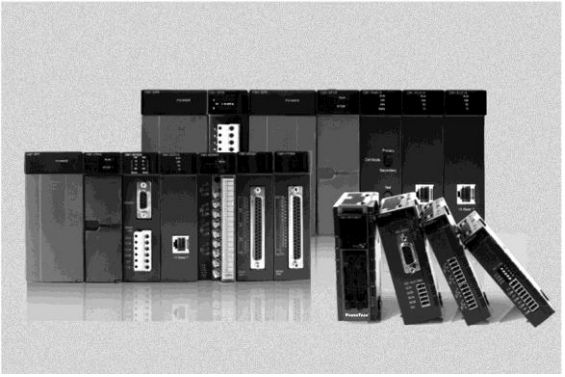
JK Fenner

POWERTRAN - PLC S

PROGRAMMABLE LOGIC CONTROLLER

Terminal Block & Cable

- CM0-TB32M
- CM0-SCB10M/E/I
- CM0-SCB15M/E/I
- CM0-SCB20M/E/I
- CM0-SCB25M/E/I
- CM0-SCB30M/E/I



Before You Start

This manual contains important information on the use and operation of this device. Please read all the information carefully for optimal performance and to prevent any damage or misuse of the device.

To keep product safely, all activities including product installation, wiring operation, or maintenance required are to be treated by trained personnel.

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Safety symbols are classified into two categories, “WARNING” and “CAUTION”.

⚠ Warning-This symbol describes situations that could cause major or fatal injury to the user.

⚠ Caution-This symbol describes situations that may cause minor injury or damage to the device.

SAFETY SYMBOLS USED IN THIS PRODUCT MEANS :

⚠ This symbol warns the user of potential hazards.

⚠ This symbol warns the user of un-insulated voltage within the unit that can cause dangerous electric shock.

Keep this manual nearby the user operating devices so it can be easily checked.

A-class equipment (Broadcasting communication equipment for business)

This product has passed the testing for electromagnetic waves for business use, and has not been designed or manufactured to be used as a household item; users are advised as such.

Design Precautions (⚠ Warning)

Please install a safety circuit to protect entire control system in case of an unexpected power shutdown and PLC module malfunction. Such anomalies may severely compromise the integrity of the overall system.

External to the PLC, please install circuits and switches to safeguard the system from mechanical damages (ex. Emergency stop, upper/lower limit switches, forward/reverse direction interlocking circuits, etc)

When the PLC detects either of the following failure conditions, it may stop operation and turn off all outputs.

- The overcurrent protection or overvoltage protection of the power supply module is activated.
- The PLC CPU detected a failure, such as the watchdog timer error or module installation failure, with its self-diagnostic function.

In addition, all outputs may be turned on when there is a failure that the PLC CPU cannot detect, such as in the relay or TR terminal. Build an extra monitoring circuit that will monitor any output signal that could cause serious accidents.

A greater than normal current passed through the PLC for an extended period of time, or a short-circuited load flows in the output module may cause a fire.

Build a circuit that turns on the external power supply after the PLC power supply is turned on. If the external power supply is turned on first, it could result in output failure or malfunction.

In order to ensure that the system operates safely, please configure an interlock circuit in the scan program for the following situations.

- When exchanging data with computer or other devices.
- When operated by a computer or other devices.

Not doing so could result in output failure or malfunction.

Precautions for design (⚠ Caution)

Do not bundle the input/output signal or communications cables with the main circuit and power cables. They should be installed at least more than 100 mm (3.94inches) apart. Not doing so could result in output failure or malfunction.

Precautions for mounting (⚠ Caution)

Use the PLC in the environment that meets the general specifications given in this manual.

Using this PLC in any environment outside the range of the general specifications could result in electric shock, fire, malfunction, or damage to or deterioration of the product.

Please ensure that each module is installed correctly in its place. Loosely or incorrectly installed pieces may result in malfunction, failure, or free-fall.

Power supply in PLC should be turned off before mounting the module. Not doing so could cause an electric shock or damage to the device.

Install I/O devices or extension connectors correctly. If they are installed incorrectly, it may result in an input or output failure.

Do not convey direct vibration into PLC. Doing so could cause electric shock, fire or malfunctions.

After wiring work, please make sure to close the terminal cover before turning on the power for the PLC system.

Precautions for wiring (⚠ Warning)

Make sure to check the device's rated voltage and circuit arrangement before wiring. Failure to do so may cause electric shock or damage on the device.

Make sure to close the terminal cover before turning on the power of PLC system after wiring work. Failure to do so may cause electric shock.

Precautions for wiring (⚠ Caution)

Make sure to check device's regular voltage and sequence of terminals. Failure to do so may cause fire, electric shock and malfunctions.

Make sure to tighten the screw with standard torque. Loose connections may cause short-circuit, fire or malfunctions.

In grounding the FG ground terminals, be sure to conduct the product at least D type (Class 3) grounding. Not doing so could result in electric shock or malfunctions.

When wiring, make sure that wiring debris do not enter the module. Failure to do so may cause fire, equipment damage or malfunctions.

Precautions for test run and repair (⚠ Warning)

Please do not touch the terminals when the power is ON. Doing so could cause an electric shock or malfunctions.

When cleaning or tightening the screw, turn off the power of PLC and all other systems. Failure to do so could cause an electric shock or malfunctions.

Do not charge, disassemble, heat up, short, or solder the battery. Doing so could cause the battery to heat up, rupture or ignite thereby harming the user.

Precautions for test run and repair (⚠ Caution)

Do not dissociate the PCB from the module's casing or make any modifications to the device. Doing so may cause fire, electric shock or malfunction.

When mounting or separating the module, make sure to turn off power to PLC and all other devices. Failure to do so could cause an electric shock or malfunctions.

Use radio, walkie-talkie or cellphone devices at least 30cm away from the PLC. Not doing so could result in malfunction.

Precautions for Disposal (⚠ Caution)

When the product is disposed of, it should be done so according to your country's regulations for similar types of industrial waste. Not doing so may cause an occurrence of toxic substances or explosion.

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Industrial Automation
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CONTENTS

Items	Modules	Applied Modules
Terminal Block	CM0-TB32M	CM1-XD32C/E
		CM1-YT32A/E, CM1-YT32B/F
		CM1-HS02C/E/F
		CM3-SP32MDT, CM3-SP32MDC
		CM3-SP32EDO, CM3-SP32EOT, CM3-SP32EOC, CM3-SP32EDT
Cable	CM0-SCB10/15/20/25/30M	CM3-SP32MDT, CM3-SP32MDC
		CM3-SP32EDT
	CM0-SCB10/15/20/25/30E	CM3-SP32EDO, CM3-SP32EOT, CM3-SP32EOC
	CM0-SCB10/15/20/25/30I	CM1-XD32C/E
		CM1-YT32A/E, CM1-YT32B/F
		CM1-HC02C/E/F

SPECIFICATION

Items		Models
Applicable Cable		UL20276
Conductor Construction		7/0.127mm(AWG28)
External Diameter of Insulation		$0.12mm^2$
External Diameter of Cable		Ø7.2mm
Rated Current		1A(MAX)
Conductor Resistance		Less than 0.223Ω/m
Insulation Voltage		500VAC 50/60Hz per a minute
Insulation Resistance		More than 15MΩ/km
Environment	Ambient Temperature	-15~55℃
	Ambient Humidity	35~75%RH

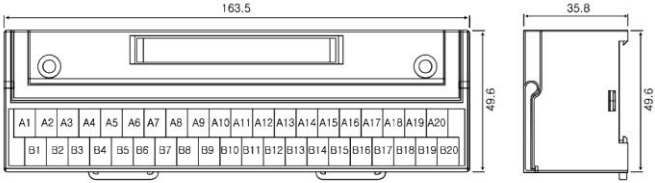
▶ The operating conditions for the use should not be not freezing or condensation.

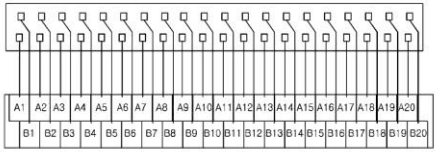
▶ The color of the applicable cable is black.

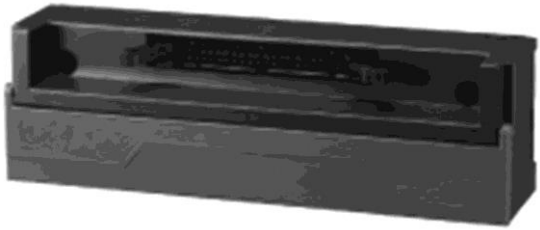
▶ The value of the conductor resistance is based on 20 ℃.

TERMINAL BLOCK DIMENSION

(Unit : mm)

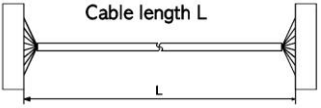






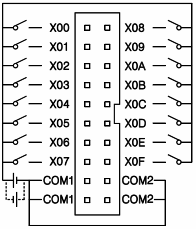
DIMENSION & WIRING (SP32MDT/EDT)

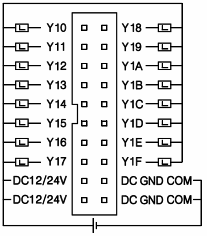
1. Wiring (CM0-SCBxxM)



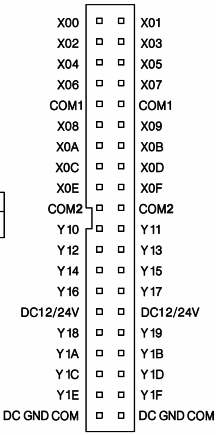
Part Number	Cable Length
CM0-SCB10M	1.0M
CM0-SCB15M	1.5M
CM0-SCB20M	2.0M
CM0-SCB30M	3.0M

▶ PLC Connection





▶ Terminal Block Connection

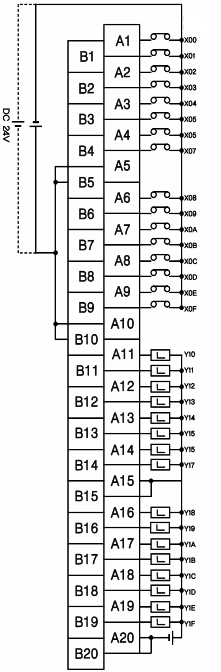


DIMENSION & WIRING (SP32MDT/EDT)

2. CM0-TB32M ↔ CM3-SP32MDT/EDT Wiring

▶ **Module : CM3-SP32MDT**

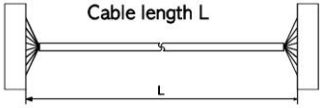
▶ **Input point can be divided into 8 points for each COM1, COM2**



CM0-TB32M	CM3-SP32MDT/EDT
A1	X00
B1	X01
A2	X02
B2	X03
A3	X04
B3	X05
A4	X06
B4	X07
A5	COM1
B5	COM1
A6	X08
B6	X09
A7	X0A
B7	X0B
A8	X0C
B8	X0D
A9	X0E
B9	X0F
A10	COM2
B10	COM2
A11	Y10
B11	Y11
A12	Y12
B12	Y13
A13	Y14
B13	Y15
A14	Y16
B14	Y17
A15	DC12/24V
B15	DC12/24V
A16	Y18
B16	Y19
A17	Y1A
B17	Y1B
A18	Y1C
B18	Y1D
A19	Y1E
B19	Y1F
A20	DC GND COM
B20	DC GND COM

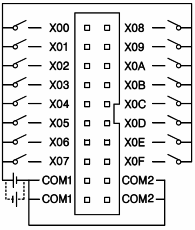
DIMENSION & WIRING (SP32MDC)

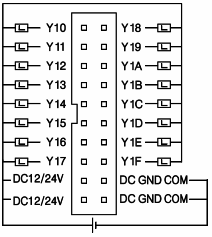
1. Wiring (CM0-SCBxxM)



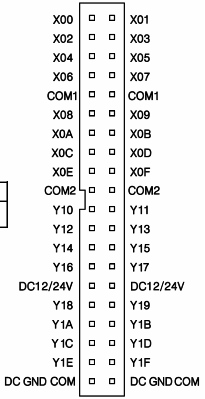
Part Number	Cable Length
CM0-SCB10M	1.0M
CM0-SCB15M	1.5M
CM0-SCB20M	2.0M
CM0-SCB30M	3.0M

▶ **PLC Connection**





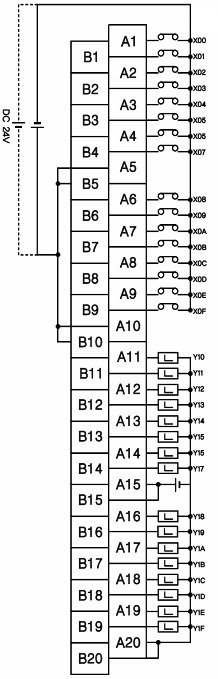
▶ **Terminal Block Connection**



DIMENSION & WIRING (SP32MDC)

2. CM0-TB32M ↔ CM3-SP32MDC Wiring

▶ **Module : CM3-SP32MDC**

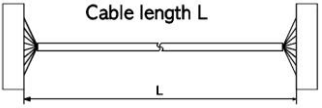


CM0-TB32M	CM3-SP32MDC
A1	X00
B1	X01
A2	X02
B2	X03
A3	X04
B3	X05
A4	X06
B4	X07
A5	COM1
B5	COM1
A6	X08
B6	X09
A7	X0A
B7	X0B
A8	X0C
B8	X0D
A9	X0E
B9	X0F
A10	COM2
B10	COM2
A11	Y10
B11	Y11
A12	Y12
B12	Y13
A13	Y14
B13	Y15
A14	Y16
B14	Y17
A15	DC12/24V COM
B15	DC12/24V COM
A16	Y18
B16	Y19
A17	Y1A
B17	Y1B
A18	Y1C
B18	Y1D
A19	Y1E
B19	Y1F
A20	DC GND
B20	DC GND

▶ Input point can be divided into 8 points for each COM1, COM2.

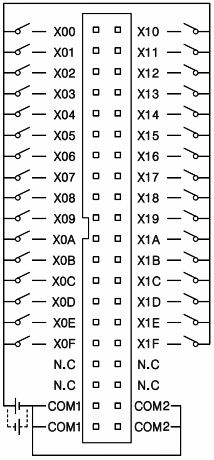
DIMENSION & WIRING (SP32EDO)

1. Wiring (CM0-SCBxxE)

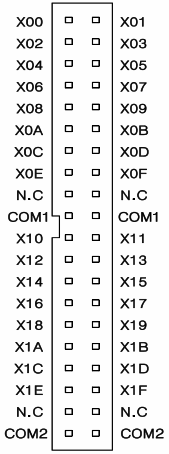


Part Number	Cable Length
CM0-SCB10E	1.0M
CM0-SCB15E	1.5M
CM0-SCB20E	2.0M
CM0-SCB30E	3.0M

▶ **PLC Connection**



▶ **Terminal Block Connection**



DIMENSION & WIRING (SP32EDO)

2. CM0-TB32M ↔ CM3-SP32EDO Wiring

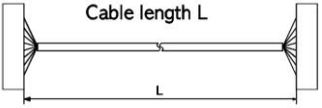
▶ **Module : CM3-SP32EDO**

CM0-TB32M	CM3-SP32EDO
A1	X00
B1	X01
A2	X02
B2	X03
A3	X04
B3	X05
A4	X06
B4	X07
A5	X08
B5	X09
A6	X0A
B6	X0B
A7	X0C
B7	X0D
A8	X0E
B8	X0F
A9	N.C
B9	N.C
A10	COM1
B10	COM1
A11	X10
B11	X11
A12	X12
B12	X13
A13	X14
B13	X15
A14	X16
B14	X17
A15	X18
B15	X19
A16	X1A
B16	X1B
A17	X1C
B17	X1D
A18	X1E
B18	X1F
A19	N.C
B19	N.C
A20	COM2
B20	COM2

▶ Input point can be divided into 16 points for each COM1, COM2

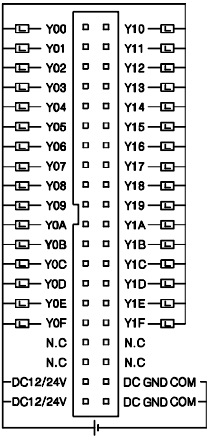
DIMENSION & WIRING (SP32EOT)

1. Wiring (CM0-SCBxxE)

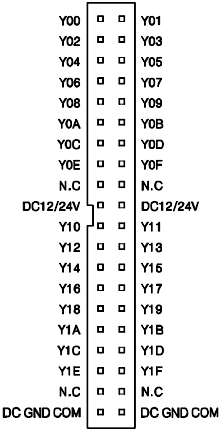


Part Number	Cable Length
CM0-SCB10E	1.0M
CM0-SCB15E	1.5M
CM0-SCB20E	2.0M
CM0-SCB30E	3.0M

▶ **PLC Connection**



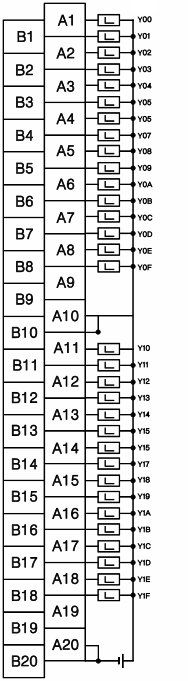
▶ **Terminal Block Connection**



DIMENSION & WIRING (SP32EOT)

2. CM0-TB32M ↔ CM3-SP32EOT Wiring

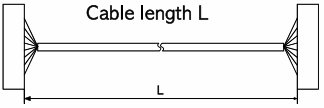
▶ **Module : CM3-SP32EOT**



CM0-TB32M	CM3-SP32EOT
A1	Y00
B1	Y01
A2	Y02
B2	Y03
A3	Y04
B3	Y05
A4	Y06
B4	Y07
A5	Y08
B5	Y09
A6	Y0A
B6	Y0B
A7	Y0C
B7	Y0D
A8	Y0E
B8	Y0F
A9	N.C
B9	N.C
A10	DC12/24V
B10	DC12/24V
A11	Y10
B11	Y11
A12	Y12
B12	Y13
A13	Y14
B13	Y15
A14	Y16
B14	Y17
A15	Y18
B15	Y19
A16	Y1A
B16	Y1B
A17	Y1C
B17	Y1D
A18	Y1E
B18	Y1F
A19	N.C
B19	N.C
A20	DC GND COM
B20	DC GND COM

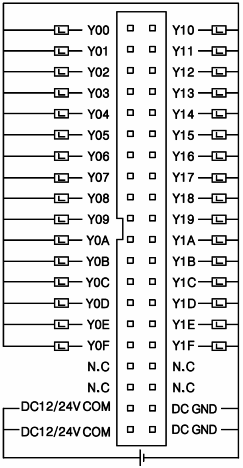
DIMENSION & WIRING (SP32EOC)

1. Wiring (CM0-SCBxxM)

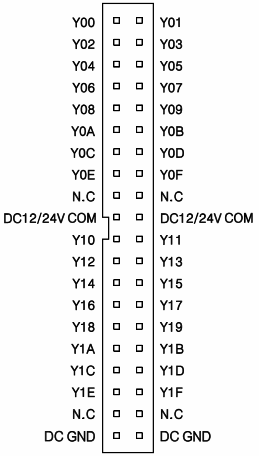


Part Number	Cable Length
CM0-SCB10E	1.0M
CM0-SCB15E	1.5M
CM0-SCB20E	2.0M
CM0-SCB30E	3.0M

▶ **PLC Connection**



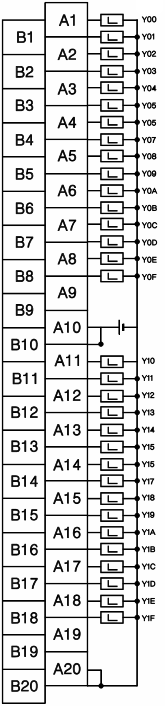
▶ **Terminal Block Connection**



DIMENSION & WIRING (SP32EOC)

2. CM0-TB32M ↔ CM3-SP32EOC Wiring

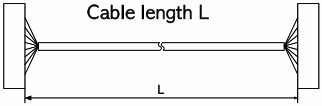
▶ **Module : CM3-SP32EOC**



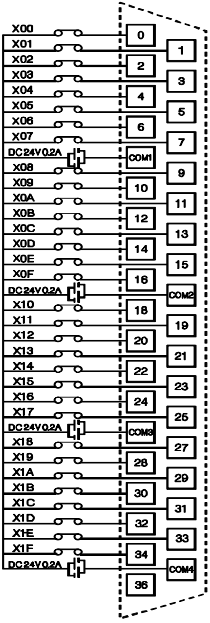
CM0-TB32M	CM3-SP32EOC
A1	Y00
B1	Y01
A2	Y02
B2	Y03
A3	Y04
B3	Y05
A4	Y06
B4	Y07
A5	Y08
B5	Y09
A6	Y0A
B6	Y0B
A7	Y0C
B7	Y0D
A8	Y0E
B8	Y0F
A9	N.C
B9	N.C
A10	DC12/24V COM
B10	DC12/24V COM
A11	Y10
B11	Y11
A12	Y12
B12	Y13
A13	Y14
B13	Y15
A14	Y16
B14	Y17
A15	Y18
B15	Y19
A16	Y1A
B16	Y1B
A17	Y1C
B17	Y1D
A18	Y1E
B18	Y1F
A19	N.C
B19	N.C
A20	DC GND
B20	DC GND

DIMENSION & WIRING (XD32C/E)

1. Wiring (CM0-SCBxxI)



▶ PLC Connection

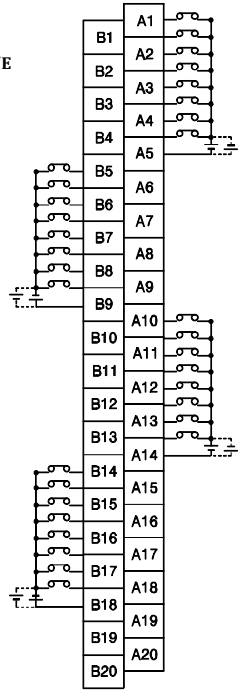


Part Number	Cable Length
CM0-SCB10I	1.0M
CM0-SCB15I	1.5M
CM0-SCB20I	2.0M
CM0-SCB30I	3.0M

DIMENSION & WIRING (XD32C/E)

2. CM0-TB32M ↔ CM1-XD32C/E Wiring

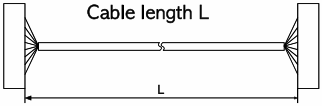
▶ **Module : CM1-XD32C/E**



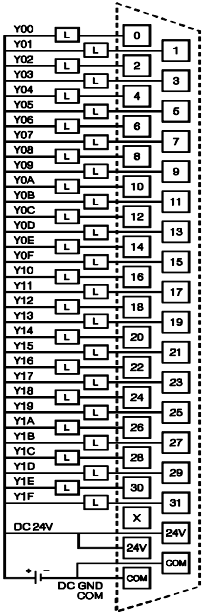
TB	CM1-XD32C
A1	X00
B1	X01
A2	X02
B2	X03
A3	X04
B3	X05
A4	X06
B4	X07
A5	COM1
B5	X08
A6	X09
B6	X0A
A7	X0B
B7	X0C
A8	X0D
B8	X0E
A9	X0F
B9	COM2
A10	X10
B10	X11
A11	X12
B11	X13
A12	X14
B12	X15
A13	X16
B13	X17
A14	COM3
B14	X18
A15	X19
B15	X1A
A16	X1B
B16	X1C
A17	X1D
B17	X1E
A18	X1F
B18	COM4
A19	N.C
B19	N.C
A20	N.C
B20	N.C

DIMENSION & WIRING (YT32A/E)

1. Wiring (CM0-SCBxxI)



▶ PLC Connection

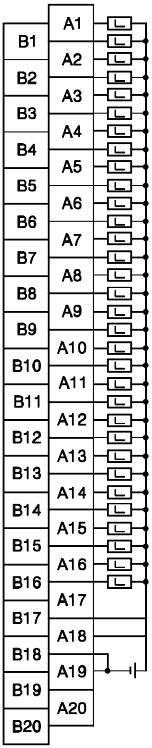


Part Number	Cable Length
CM0-SCB10I	1.0M
CM0-SCB15I	1.5M
CM0-SCB20I	2.0M
CM0-SCB30I	3.0M

DIMENSION & WIRING (YT32A/E)

2. CM0-TB32M ↔ CM1-YT32A/E Wiring

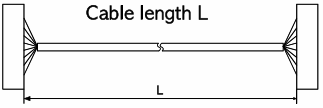
▶ **Module : CM1-YT32A/E**



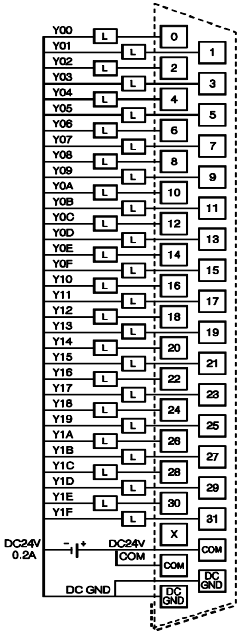
TB	CM1−YT32A
A1	Y00
B1	Y01
A2	Y02
B2	Y03
A3	Y04
B3	Y05
A4	Y06
B4	Y07
A5	Y08
B5	Y09
A6	Y0A
B6	Y0B
A7	Y0C
B7	Y0D
A8	Y0E
B8	Y0F
A9	Y10
B9	Y11
A10	Y12
B10	Y13
A11	Y14
B11	Y15
A12	Y16
B12	Y17
A13	Y18
B13	Y19
A14	Y1A
B14	Y1B
A15	Y1C
B15	Y1D
A16	Y1E
B16	Y1F
A17	N.C
B17	DC+24
A18	DC+24
B18	DC GND COM
A19	DC GND COM
B19	N.C
A20	N.C
B20	N.C

DIMENSION & WIRING (YT32B/F)

1. Wiring (CM0-SCBxxI)



▶ PLC Connection

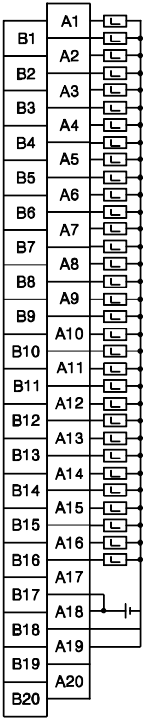


Part Number	Cable Length
CM0-SCB10I	1.0M
CM0-SCB15I	1.5M
CM0-SCB20I	2.0M
CM0-SCB30I	3.0M

DIMENSION & WIRING (YT32B/F)

2. CM0-TB32M ↔ CM1-YT32B/F Wiring

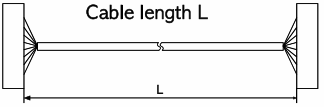
▶ **Module : CM1-YT32B/F**



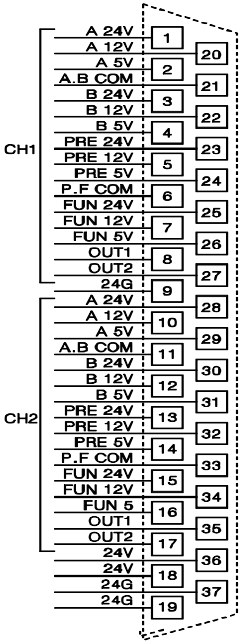
TB	CM1-YT32B
A1	Y00
B1	Y01
A2	Y02
B2	Y03
A3	Y04
B3	Y05
A4	Y06
B4	Y07
A5	Y08
B5	Y09
A6	Y0A
B6	Y0B
A7	Y0C
B7	Y0D
A8	Y0E
B8	Y0F
A9	Y10
B9	Y11
A10	Y12
B10	Y13
A11	Y14
B11	Y15
A12	Y16
B12	Y17
A13	Y18
B13	Y19
A14	Y1A
B14	Y1B
A15	Y1C
B15	Y1D
A16	Y1E
B16	Y1F
A17	N.C
B17	DC+24V COM
A18	DC+24V COM
B18	DC GND
A19	DC GND
B19	N.C
A20	N.C
B20	N.C

DIMENSION & WIRING (HS02C)

1. Wiring (CM0-SCBxxI)



▶ PLC Connection



Part Number	Cable Length
CM0-SCB10I	1.0M
CM0-SCB15I	1.5M
CM0-SCB20I	2.0M
CM0-SCB30I	3.0M

* P.F com : Preset/Function com

DIMENSION & WIRING (HS02C)

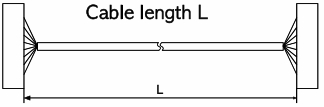
2. CM0-TB32M ↔ CM1-HS02C Wiring

▶ **Module : CM1-HS02C**

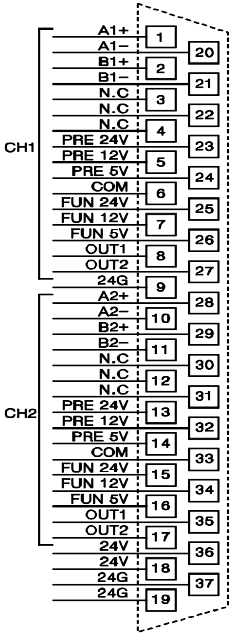
CM0-TB32M	CM1-HS02C	
A1	A 24V	CH1
B1	A 12V	
A2	A 5V	
B2	A.B COM	
A3	B 24V	
B3	B 12V	
A4	B 5V	
B4	PRE 24V	
A5	PRE 12V	
B5	PRE 5V	
A6	Preset/Function com	
B6	FUN 24V	
A7	FUN 12V	
B7	FUN 5V	
A8	OUT1	
B8	OUT2	
A9	24G	
B9	A24V	CH2
A10	A 12V	
B10	A 5V	
A11	A.B COM	
B11	B 24V	
A12	B 12V	
B12	B 5V	
A13	PRE 24V	
B13	PRE 12V	
A14	PRE 5V	
B14	Preset/Function com	
A15	FUN 24V	
B15	FUN 12V	
A16	FUN 5V	
B16	OUT1	
A17	OUT2	
B17	24V	
A18	24V	
B18	24G	
A19	24G	
B19	N.C	
A20	N.C	
B20	N.C	

DIMENSION & WIRING (HS02E)

1. Wiring (CM0-SCBxxI)



▶ **PLC Connection**



Part Number	Cable Length
CM0-SCB10I	1.0M
CM0-SCB15I	1.5M
CM0-SCB20I	2.0M
CM0-SCB30I	3.0M

* P.F com : Preset/Function com

DIMENSION & WIRING (HS02E)

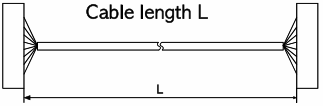
2. CM0-TB32M ↔ CM1-HS02E Wiring

▶ **Module : CM1-HS02E**

CM0-TB32M	CM1-HS02E	
A1	A1+	CH1
B1	A1−	
A2	B1+	
B2	B1−	
A3	N.C	
B3	N.C	
A4	N.C	
B4	PRE 24V	
A5	PRE 12V	
B5	PRE 5V	
A6	Preset/Function com	
B6	FUN 24V	
A7	FUN 12V	
B7	FUN 5V	
A8	OUT1	
B8	OUT2	
A9	24G	
B9	A2+	CH2
A10	A2−	
B10	B2+	
A11	B2−	
B11	N.C	
A12	N.C	
B12	N.C	
A13	PRE 24V	
B13	PRE 12V	
A14	PRE 5V	
B14	Preset/Function com	
A15	FUN 24V	
B15	FUN 12V	
A16	FUN 5V	
B16	OUT1	
A17	OUT2	
B17	24V	
A18	24V	
B18	24G	
A19	24G	
B19	N.C	
A20	N.C	
B20	N.C	

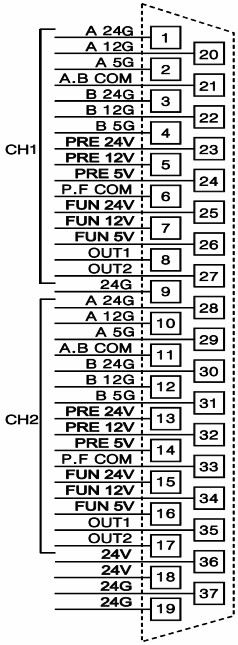
DIMENSION & WIRING (HS02F)

1. Wiring (CM0-SCBxxI)



Part Number	Cable Length
CM0-SCB10I	1.0M
CM0-SCB15I	1.5M
CM0-SCB20I	2.0M
CM0-SCB30I	3.0M

▶ **PLC Connection**



* P.F com : Preset/Function com

DIMENSION & WIRING (HS02F)

2. CM0-TB32M ↔ CM1-HS02F Wiring

▶ **Module : CM1-HS02F**

CM0-TB32M	CM1-HS02F	
A1	A 24G	
B1	A 12G	
A2	A 5G	
B2	A, B COM	
A3	B 24G	
B3	B 12G	CH1
A4	B 5G	
B4	PRE 24V	
A5	PRE 12V	
B5	PRE 5V	
A6	Preset/Function com	
B6	FUN 24V	
A7	FUN 12V	
B7	FUN 5V	
A8	OUT1	
B8	OUT2	
A9	24G	
B9	A 24G	
A10	A 12G	
B10	A 5G	
A11	A, B COM	
B11	B 24G	
A12	B 12G	
B12	B 5G	
A13	PRE 24V	
B13	PRE 12V	CH2
A14	PRE 5V	
B14	Preset/Function com	
A15	FUN 24V	
B15	FUN 12V	
A16	FUN 5V	
B16	OUT1	
A17	OUT2	
B17	24V	
A18	24V	
B18	24G	
A19	24G	
B19	N.C	
A20	N.C	
B20	N.C	

MEMO

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