

I/O Cables



CH Series PRODUCT MANUAL

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- Diverse cables available for connection to various PLCs and controller
- Customizable cable arrangement
- Diverse cable lengths for various user requirements
- Customizable branching cable types

Ordering Information

This is only for reference.
For selecting the specified model, follow the Autonics website.
Check PLC / SERVO Connector, cable appearance, cable selection and connection to order a product. Optional specifications, needed to contact Autonics
If there is no items you are looking for, please contact Autonics.

CH	1	-	2	3	-	4	5	6	7	8	-	9
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- ❶ No. of connector pins**
Number: Number of connector pins
- ❷ PLC / SERVO connector**
HP: Hirose plug
FP: Fujitsu plug
DP: D-sub plug
DS: D-sub socket
MP: 3M plug (latch)
MQ: 3M plug (bolt)
- ❸ Cable length**
005: 0.5 m
010: 1 m
015: 1.5 m
020: 2 m
025: 2.5 m
030: 3 m
040: 4 m
050: 5 m
- ❹ Position of PLC (SERVO) power connection pin**
- ❺ Signal arrangement**
- ❻ PLC (SERVO) power connection pin**
- ❼ Connection type of PLC (SERVO)**
- ❽ PLC (SERVO) connector direction**
- ❾ Cable branching**

Specifications

Series	CH Series
Cable connector	PLC / SERVO side - Terminal block side
PLC / SERVO side	Hirose 20-pin / 40-pin socket
	Fujitsu 40-pin socket
	D-Sub 37-pin socket / plug
	MDR (latch) 20-pin / 26-pin / 50-pin socket
Terminal block side	MDR (bolt) 26-pin / 50-pin socket
	Hirose 20-pin / 26-pin / 40-pin / 50-pin socket
Wire ⁰¹⁾	UL 20276 TWIST 20C / 40C / 26C / 50C
Conductor characteristics	7 / 0.127 mm (AWG 28) × 20P, 7 / 0.127 mm (AWG 28) × 13P, 7 / 0.127 mm (AWG 28) × 10P, 7 / 0.127 mm (AWG 28) × 25P
Insulation diameter	0.12 mm ²
Cable diameter	Ø 6.3 mm (26C) / Ø 7.2 mm (40C) / Ø 8.9 mm (50C)
Rated current	≤ 1 A
Conductor resistance ⁰²⁾	≤ 0.223 Ω/m
Insulation voltage	500 VAC~ 50/60Hz for 1 min
Insulation resistance	≥ 15 MΩ/km
Ambient temperature	-15 to 55°C, storage: -25 to 65°C (no freezing or condensation)
Ambient humidity	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)

01) Color is black.

02) Conductor resistance value is rated at 20 °C.

■ Unit weight : PLC cable

- It excludes the package weight (+ 5 g). Unit weight is different depending on the cable length.

Type	No. of pin	Branching	Model	Weight
Hirose plug	20-pin	Non-branching	CH20-HP□-□	≈ 37 to 298 g
	40-pin	Non-branching	CH40-HP□-□	≈ 58 to 391 g
		2-branching	CH40-HP□-□-2S	≈ 55 to 388 g
		2-branching	CH40-HP□-□-2L	≈ 55 to 388 g
		2-branching	CH40-HP□-□-YS	≈ 58 to 391 g
		2-branching	CH40-HP□-□-FS	≈ 58 to 391 g
Fujitsu plug	40-pin	Non-branching	CH40-FP□-□	≈ 85 to 418 g
		2-branching	CH40-FP□-□-2S	≈ 88 to 421 g
		2-branching	CH40-FP□-□-2L	≈ 88 to 421 g
D-Sub plug	37-pin	Non-branching	CH37-DP□-□	≈ 90 to 423 g
		2-branching	CH37-DP□-□-2S	≈ 84 to 417 g
		2-branching	CH37-DP□-□-2L	≈ 84 to 417 g
D-Sub Socket	37-pin	Non-branching	CH37-DS□-□	≈ 90 to 423 g
		2-branching	CH37-DS□-□-2S	≈ 84 to 417 g
		2-branching	CH37-DS□-□-2L	≈ 84 to 417 g

■ Unit weight : SERVO cable

- It excludes the package weight (+ 5 g). Unit weight is different depending on the cable length.



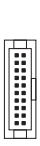









Type	No. of pin	Model	Weigh
3M plug (latch)	20-pin	CH20-MP□-□	≈ 46 to 301 g
	26-pin	CH26-MP□-□	≈ 72 to 267 g
	50-pin	CH50-MP□-□	≈ 95 to 587 g
3M plug (bolt)	26-pin	CH26-MQ□-□	≈ 74 to 269 g
	50-pin	CH50-MQ□-□	≈ 98 to 590 g

Connectible Connectors










- These are shape and direction of connectors in PLC / SERVO to which CH series cable can be connected.
- These images stand for the direction of cable running down.

■ PLC connector

• Non-branching


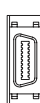

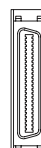
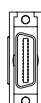

Direction	Right (R) 					Left (L) 				
Type	Hirose plug	Fujitsu plug	D-Sub plug	D-Sub socket		Hirose plug	Fujitsu plug	D-Sub plug	D-Sub socket	
No. of pin	20-pin	40-pin	40-pin	37-pin	37-pin	20-pin	40-pin	40-pin	37-pin	37-pin
Shape										

• 2-branching

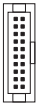
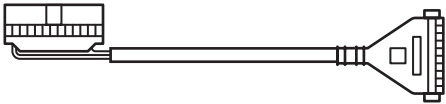
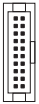

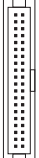
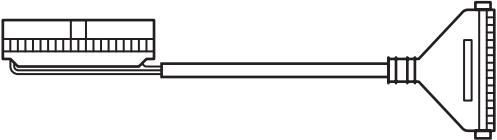
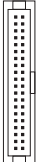


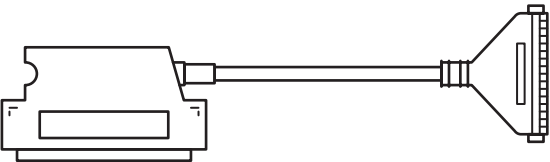
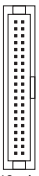


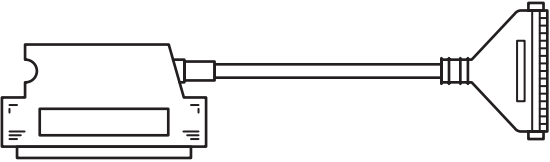
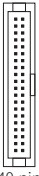


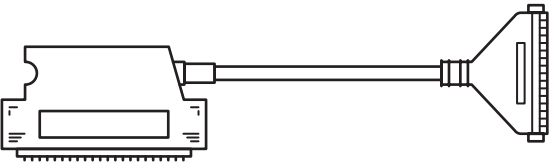
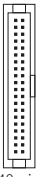

Direction	Right (R) 		Left (L) 	Right + Left (W, X) ⁰¹ 	Left + Right (Y, Z) ⁰¹ 
Type	Hirose plug		Hirose plug	Hirose plug	Hirose plug
No. of pin	40-pin		40-pin	40-pin	40-pin
Shape					

01) It is decided according to the pin arrangement. For detailed information, contact Autonics.


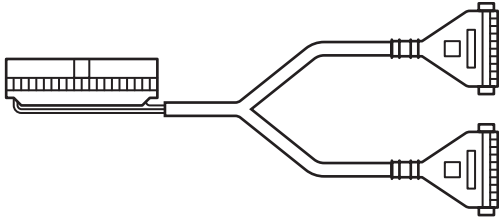



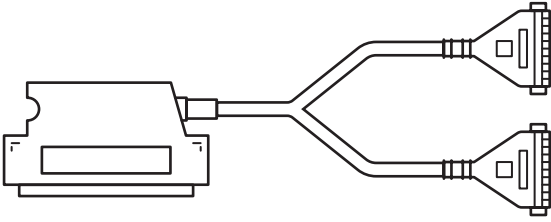



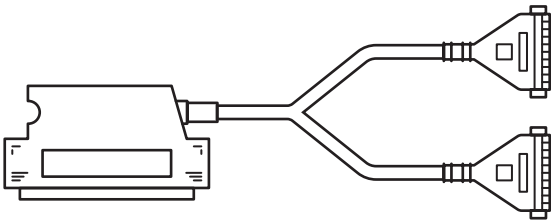



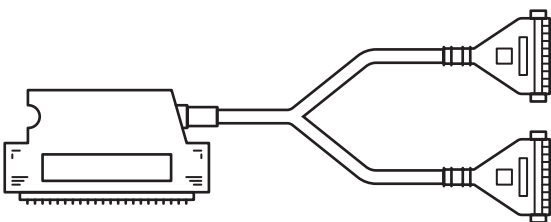


■ SERVO connector

Direction	Right (R) 				
Type	3M plug (latch)			3M plug (bolt)	
No. of pin	20-pin	26-pin	50-pin	26-pin	50-pin
Shape					


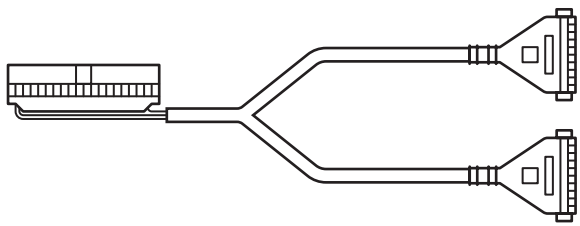



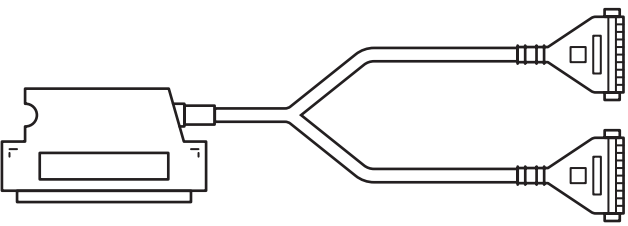



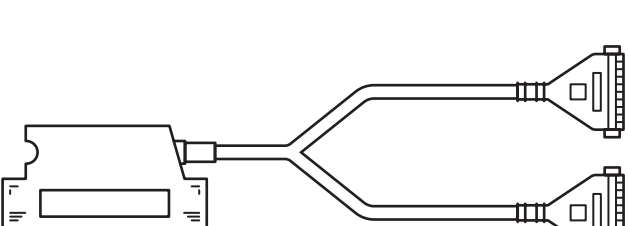



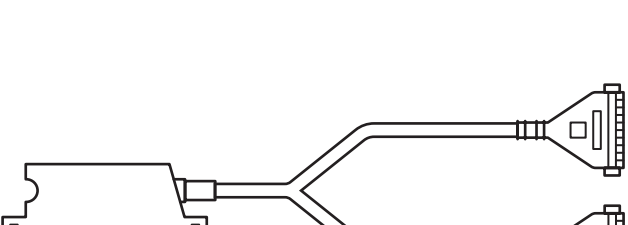


Cable Appearance: Non-branching

PLC connector		Cable model	Cable appearance	Terminal block connector
Type	Direction			
Hirose 20-pin plug	 R direction	CH20-HP□-□ R		 20-pin
	 L direction	CH20-HP□-□ L		
Hirose 40-pin plug	 R direction	CH40-HP□-□ R		 40-pin
	 L direction	CH40-HP□-□ L		
Fujitsu 40-pin plug	 R direction	CH40-FP□-□ R		 40-pin
	 L direction	CH40-FP□-□ L		
D-sub 37-pin plug	 R direction	CH37-DP□-□ R		 40-pin
	 L direction	CH37-DP□-□ L		
D-sub 37-pin socket	 R direction	CH37-DS□-□ R		 40-pin
	 L direction	CH37-DS□-□ L		

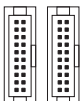
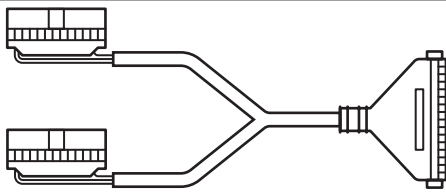

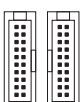
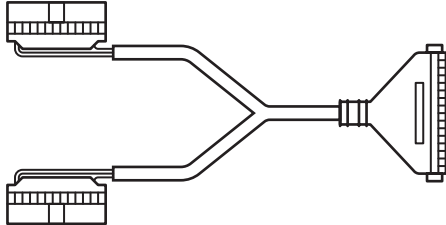

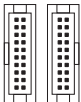
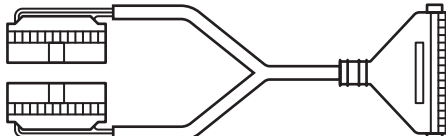

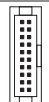
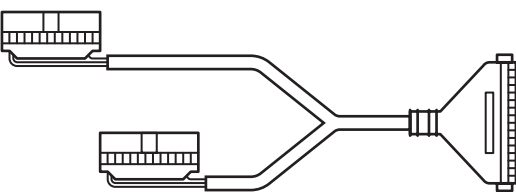

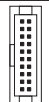
Cable Appearance: Terminal block side 2-branching short type

PLC connector		Cable model	Cable appearance	Terminal block connector
Type	Direction			
Hirose 40-pin plug	 R direction	CH40-HP□-□R-2S		 20-pin / 20-pin
	 L direction	CH40-HP□-□L-2S		
Fujitsu 40-pin plug	 R direction	CH40-FP□-□R-2S		 20-pin / 20-pin
	 L direction	CH40-FP□-□L-2S		
D-sub 37-pin plug	 R direction	CH37-DP□-□R-2S		 20-pin / 20-pin
	 L direction	CH37-DP□-□L-2S		
D-sub 37-pin socket	 R direction	CH37-DS□-□R-2S		 20-pin / 20-pin
	 L direction	CH37-DS□-□L-2S		


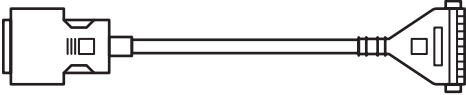


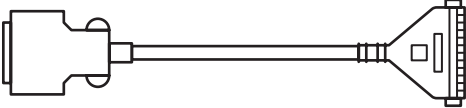


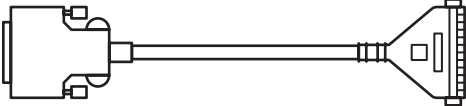


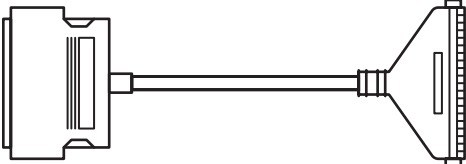


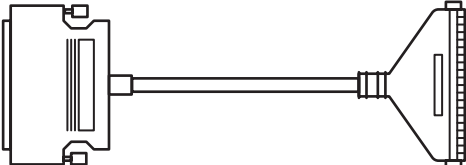

Cable Appearance: Terminal block side 2-branching long type

PLC connector		Cable model	Cable appearance	Terminal block connector
Type	Direction			
Hirose 40-pin plug	 R direction	CH40-HP□-□ R-2L		 20-pin / 20-pin
	 L direction	CH40-HP□-□ L-2L		
Fujitsu 40-pin plug	 R direction	CH40-FP□-□ R-2L		 20-pin / 20-pin
	 L direction	CH40-FP□-□ L-2L		
D-sub 37-pin plug	 R direction	CH37-DP□-□ R-2L		 20-pin / 20-pin
	 L direction	CH37-DP□-□ L-2L		
D-sub 37-pin socket	 R direction	CH37-DS□-□ R-2L		 20-pin / 20-pin
	 L direction	CH37-DS□-□ L-2L		

Cable Appearance: PLC side 2-branching short type

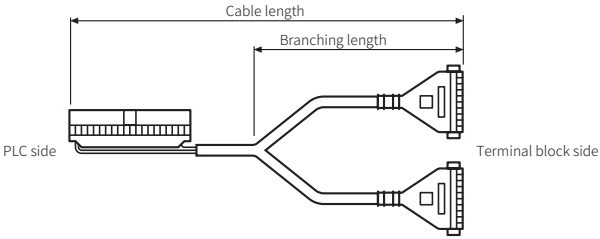
PLC connector		Cable model	Cable appearance	Terminal block connector
Type	Direction			
Hirose 20-pin plug	 R direction + R direction	CH40-HP□-□R-YS		 40-pin
	 R direction + L direction	CH40-HP□-□W-YS CH40-HP□-□X-YS		 40-pin
	 L direction + R direction	CH40-HP□-□Y-YS CH40-HP□-□Z-YS		 40-pin
	 R direction + R direction	CH40-HP□-□R-FS		 40-pin
	 L direction + L direction	CH40-HP□-□L-FS		

Cable Appearance: SERVO

SERVO connector		Cable model	Cable appearance	Terminal block connector
Type	Direction			
3M 20-pin plug (latch)	 R direction	CH20-MP□-□ R		 20-pin
3M 26-pin plug (latch)	 R direction	CH26-MP□-□ R		 26-pin
3M 26-pin plug (bolt)	 R direction	CH26-MQ□-□ R		 26-pin
3M 50-pin plug (latch)	 R direction	CH50-MP□-□ R		 50-pin
3M 50-pin plug (bolt)	 R direction	CH50-MQ□-□ R		 50-pin

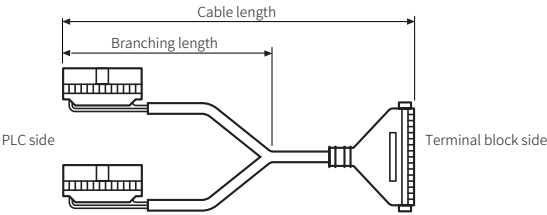
Cable Length of Branching Type Cable

■ Terminal block side branching cable

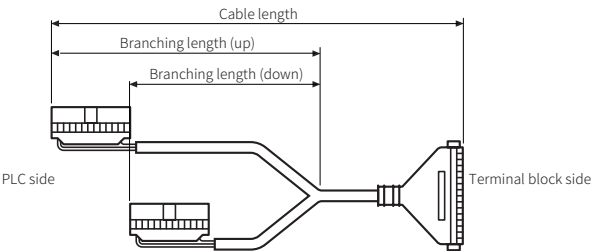


Cable model	Branching	Cable length	Branching length
CH□-□005-□-2S	2-branching short type	0.5 m	0.15 m
CH□-□010-□-2S		1 m	0.15 m
CH□-□015-□-2S		1.5 m	0.15 m
CH□-□020-□-2S		2 m	0.15 m
CH□-□025-□-2S		2.5 m	0.15 m
CH□-□030-□-2S		3 m	0.15 m
CH□-□040-□-2S		4 m	0.15 m
CH□-□050-□-2S		5 m	0.15 m
CH□-□005-□-2L	2-branching long type	0.5 m	0.3 m
CH□-□010-□-2L		1 m	0.8 m
CH□-□015-□-2L		1.5 m	1.3 m
CH□-□020-□-2L		2 m	1.8 m
CH□-□025-□-2L		2.5 m	2.3 m
CH□-□030-□-2L		3 m	2.8 m
CH□-□040-□-2L		4 m	3.8 m
CH□-□050-□-2L		5 m	4.8 m

■ PLC side branching cable



Cable model	Branching	Cable length	Branching length
CH40-HP005-□-YS	2-branching right/left type	0.5 m	0.15 m
CH40-HP010-□-YS		1 m	0.15 m
CH40-HP015-□-YS		1.5 m	0.15 m
CH40-HP020-□-YS		2 m	0.15 m
CH40-HP025-□-YS		2.5 m	0.15 m
CH40-HP030-□-YS		3 m	0.15 m
CH40-HP040-□-YS		4 m	0.15 m
CH40-HP050-□-YS		5 m	0.15 m



Cable model	Branching	Cable length	Branching length
CH40-HP005-□-FS	2-branching up/down type	0.5 m	Up: 0.15 m Down: 0.09 m
CH40-HP010-□-FS		1 m	
CH40-HP015-□-FS		1.5 m	
CH40-HP020-□-FS		2 m	
CH40-HP025-□-FS		2.5 m	
CH40-HP030-□-FS		3 m	
CH40-HP040-□-FS		4 m	
CH40-HP050-□-FS		5 m	

How to Read Cable Selection and Connection Diagram

Cable Selection and Connection Diagram

Check the cable selection table and connection diagram to select the proper cable model.
Only some of representative PLC are selected. If there is no PLC model you are looking for or you need branching type of cable, please contact Autonics.

■ LS) XGT Series - Interface/Relay terminal block

- Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
XGI-D24A	Input	32	-	Interface Terminal block	CH40-FP□-1R	1
XGI-D24B	Input	32	-	Interface Terminal block	CH40-FP□-1R	1
XGI-D28A	Input	64	-	Interface Terminal block	CH40-FP□-1R	2
XGI-D28B	Input	64	-	Interface Terminal block	CH40-FP□-1R	2
XGQ-TR4A	Output	32	NPN	Interface Terminal block	CH40-FP□-1R	1
	Output	32	NPN	Relay Terminal block	CH40-FP□-E1T1R	1
	Output	32	PNP	Interface Terminal block	CH40-FP□-1R	1
XGQ-TR4B	Output	32	PNP	Relay Terminal block	CH40-FP□-E1T4R	1
	Output	64	NPN	Interface Terminal block	CH40-FP□-1R	2
XGQ-TR8A	Output	64	NPN	Relay Terminal block	CH40-FP□-E1T1R	2
	Output	64	PNP	Interface Terminal block	CH40-FP□-1R	2
XGQ-TR8B	Output	64	PNP	Relay Terminal block	CH40-FP□-E1T4R	2
	Output	64	PNP	Relay Terminal block	CH40-FP□-E1T4R	2

□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

- Cable connection diagram

- Interface Terminal block input

COM	COM	NC	NC	OF	OE	OD	OC	OB	OA	09	08	07	06	05	04	03	02	01	00
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20
COM	COM	NC	NC	1F	1E	1D	1C	1B	1A	19	18	17	16	15	14	13	12	11	10
A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20

PLC I/O signal

Pin no. of PLC connector

Terminal block signal

Terminal block signal

PLC I/O signal

Pin no. of PLC connector

No.	Description
1	Search for the manufacturer and series name of PLC you have, and terminal block type to connect.
2	Search for detailed information of the PLC, and terminal block type to connect.
3	Check the model name and required quantity. If there is no item you want, please contact Autonics.
4	Search for the terminal block to connect.
5	Connect the PLC and terminal block using the purchased cable, and wire referring to the above terminal block image.

Cable Selection and Connection Diagram

Check the cable selection table and connection diagram to select the proper cable model.

Only some of representative PLC are selected. If there is no PLC model you are looking for or you need branching type of cable, please contact Autronics.

■ LS) XGT Series - Interface/Relay/SSR terminal block

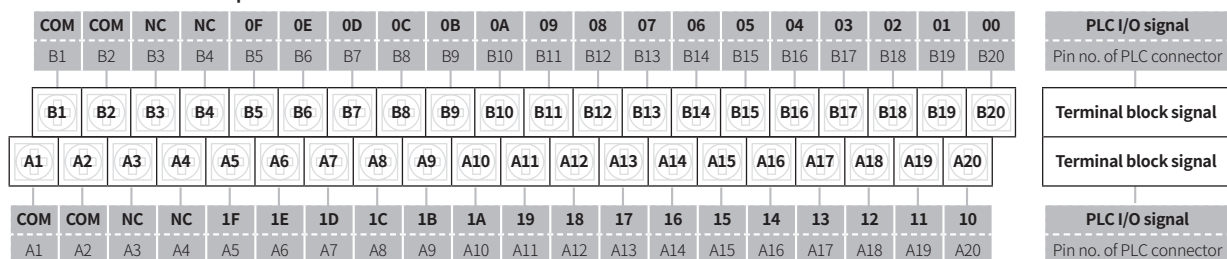
- Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
XGI-D24A	Input	32	-	Interface Terminal block	CH40-FP□-1R	1
XGI-D24B	Input	32	-	Interface Terminal block	CH40-FP□-1R	1
XGI-D28A	Input	64	-	Interface Terminal block	CH40-FP□-1R	2
XGI-D28B	Input	64	-	Interface Terminal block	CH40-FP□-1R	2
XGQ-TR4A	Output	32	NPN	Interface Terminal block	CH40-FP□-1R	1
	Output	32	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	1
XGQ-TR4B	Output	32	PNP	Interface Terminal block	CH40-FP□-1R	1
	Output	32	PNP	Relay/SSR terminal block	CH40-FP□-E1T4R	1
XGQ-TR8A	Output	64	NPN	Interface Terminal block	CH40-FP□-1R	2
	Output	64	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	2
XGQ-TR8B	Output	64	PNP	Interface Terminal block	CH40-FP□-1R	2
	Output	64	PNP	Relay/SSR terminal block	CH40-FP□-E1T4R	2

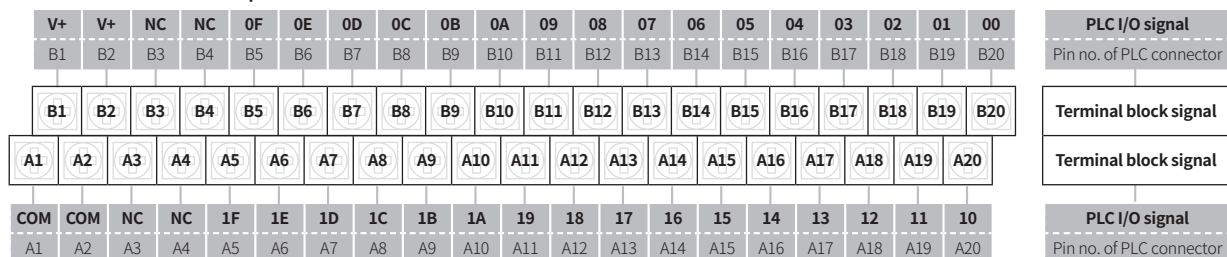
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

- Cable connection diagram

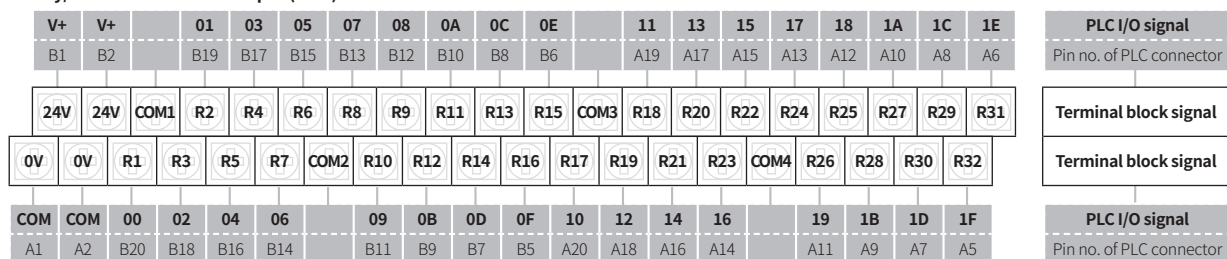
- Interface Terminal block input



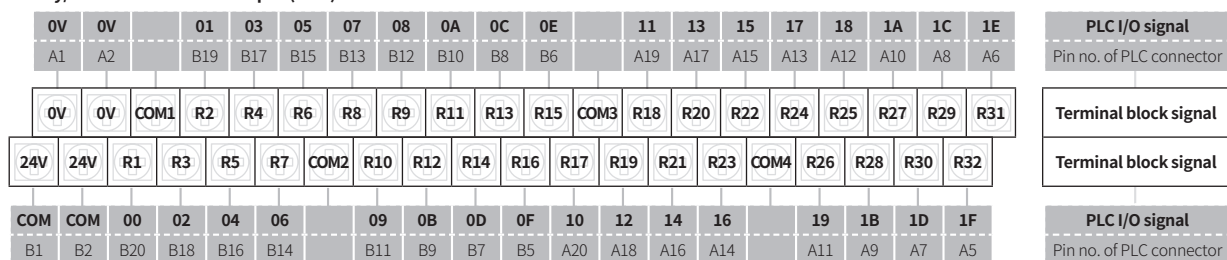
- Interface Terminal block output



- Relay/SSR terminal block output (NPN)



- Relay/SSR terminal block output (PNP)



■ LS) XGT Series - Sensor connector terminal block

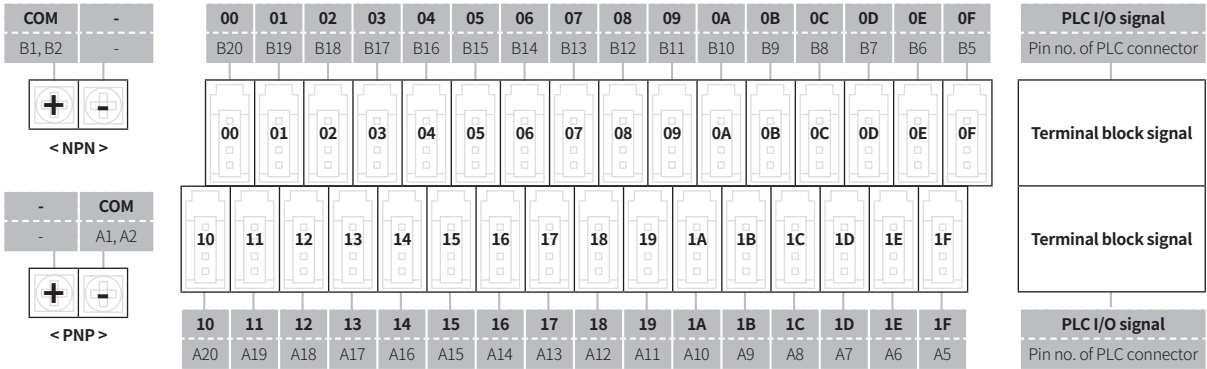
• Cable selection guide

Controller				Terminal block to connect		Proper cable	
Module name	I/O	No. of I/O	Logic	Type	Logic	Model name	Quantity
XGI-D24A	Input	32	NPN	Sensor connector Terminal block	NPN	CH40-FP□-E1T3R	1
	Input	32	PNP	Sensor connector Terminal block	PNP	CH40-FP□-E1T2R	1
XGI-D24B	Input	32	NPN	Sensor connector Terminal block	NPN	CH40-FP□-E1T3R	1
	Input	32	PNP	Sensor connector Terminal block	PNP	CH40-FP□-E1T2R	1
XGI-D28A	Input	64	NPN	Sensor connector Terminal block	NPN	CH40-FP□-E1T3R	2
	Input	64	PNP	Sensor connector Terminal block	PNP	CH40-FP□-E1T2R	2
XGI-D28B	Input	64	NPN	Sensor connector Terminal block	NPN	CH40-FP□-E1T3R	2
	Input	64	PNP	Sensor connector Terminal block	PNP	CH40-FP□-E1T2R	2
XGQ-TR4A	Output	32	NPN	Sensor connector Terminal block	NPN	CH40-FP□-E1T1R	1
XGQ-TR4B	Output	32	PNP	Sensor connector Terminal block	PNP	CH40-FP□-E1T1R	1
XGQ-TR8A	Output	64	NPN	Sensor connector Terminal block	NPN	CH40-FP□-E1T1R	2
XGQ-TR8B	Output	64	PNP	Sensor connector Terminal block	PNP	CH40-FP□-E1T1R	2

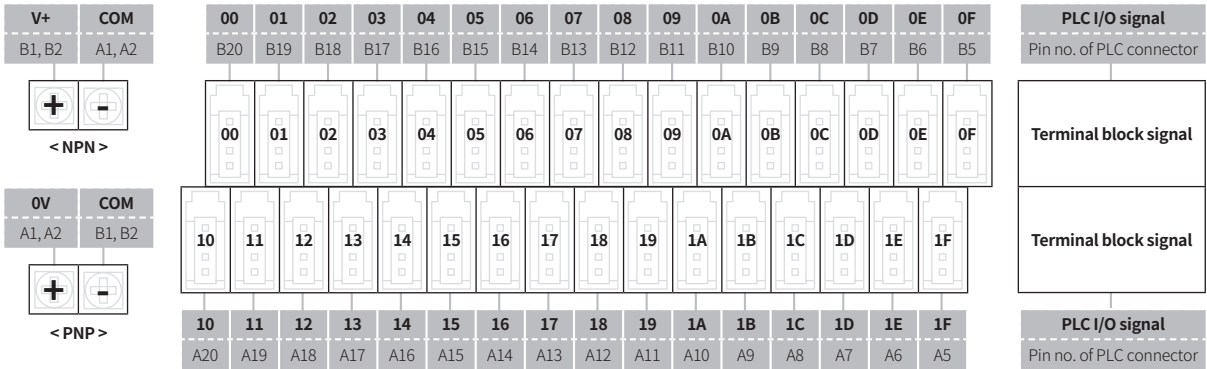
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

- Sensor connector Terminal block input



- Sensor connector Terminal block output



■ LS) XGB Series - Interface/Relay/SSR terminal block

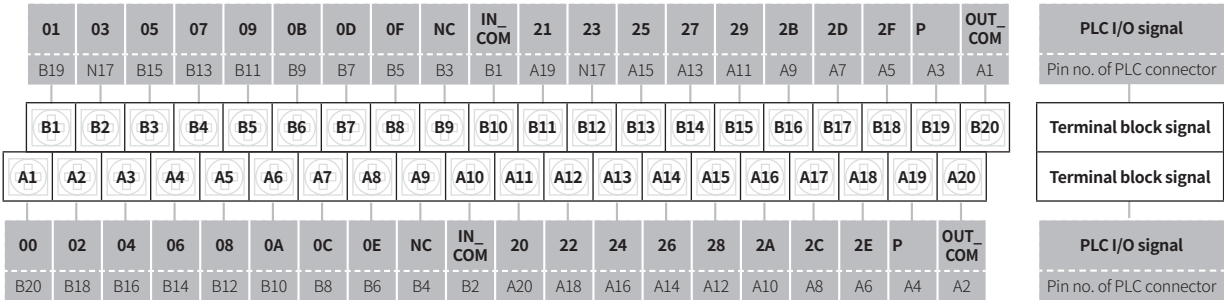
- Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
XBM-DN32H	Input/output	32	-	Interface Terminal block	CH40-HP□-8L	1
XBE-DN32A	Input/output	32	-	Interface Terminal block	CH40-HP□-8L	1

□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

- Cable connection diagram

- Interface Terminal block input/output



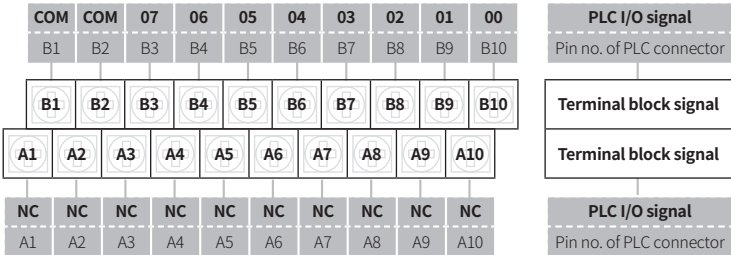
- Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
XBM-DN16S	Input	8	-	Interface Terminal block	CH20-HP□-1R	1
	Output	8	NPN	Interface Terminal block	CH20-HP□-1L	1
	Output	8	NPN	Relay/SSR terminal block	CH20-HP□-D1T1L	1

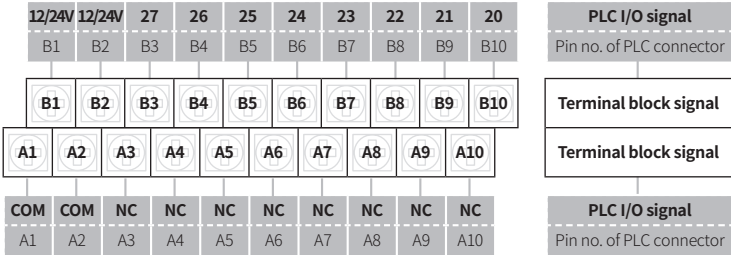
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

- Cable connection diagram

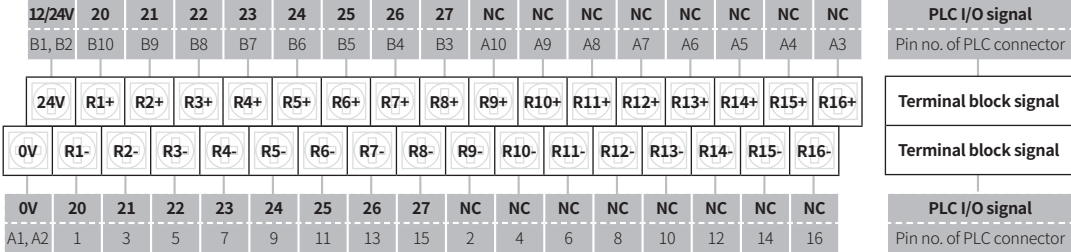
- Interface terminal block input



- Interface terminal block output



- Relay/SSR terminal block output (NPN)



■ LS) XGB Series - Interface/Relay/SSR terminal block

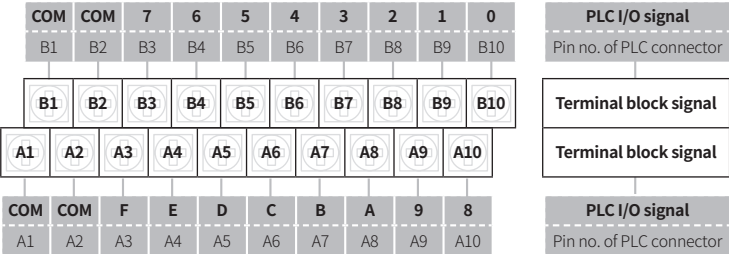
• Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
XBM-DN32S	Input	16	-	Interface terminal block	CH20-HP□-1R	1
	Output	16	NPN	Interface terminal block	CH20-HP□-1L	1
	Output	16	NPN	Relay/SSR terminal block	CH20-HP□-D1T1L	1

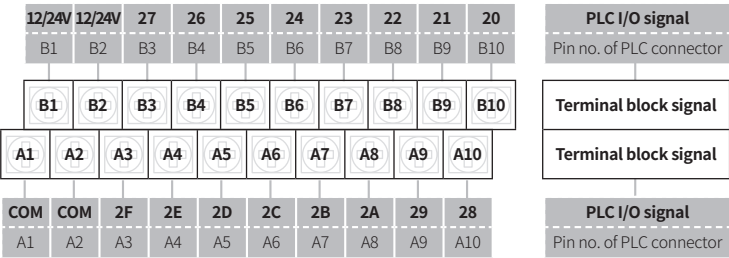
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

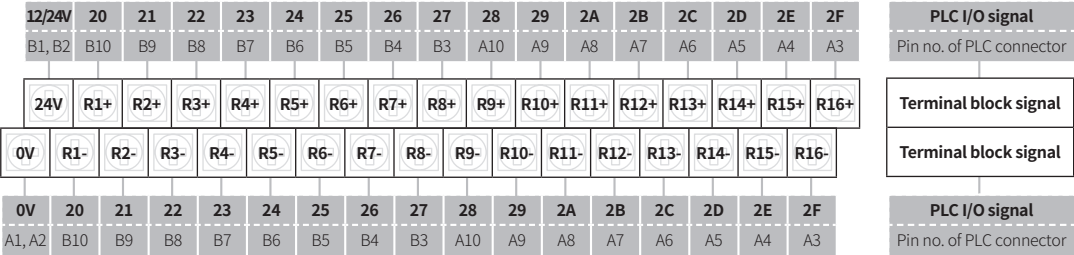
- Interface terminal block input



- Interface terminal block output



- Relay/SSR terminal block output (NPN)



■ LS) XGB Series - Interface/Relay/SSR terminal block

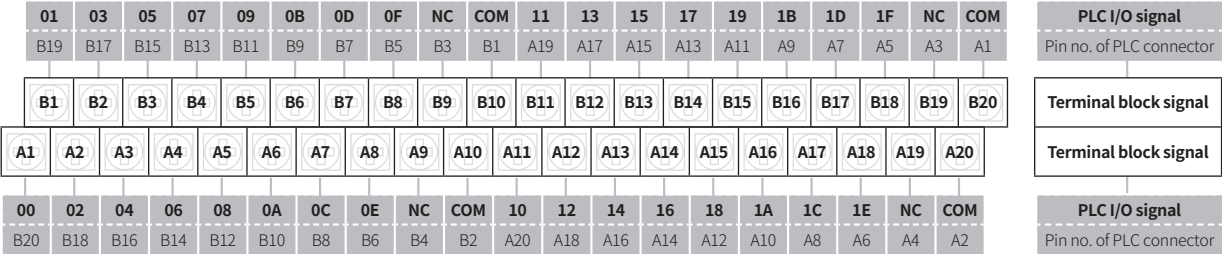
- Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
XBE-DC32A	Input	32	-	Interface terminal block	CH40-HP□-8L	1
XBE-TN32A	Output	32	NPN	Interface terminal block	CH40-HP□-8L	1
	Output	32	NPN	Relay/SSR terminal block	CH40-HP□-E1T1L	1
XBE-TP32A	Output	32	PNP	Interface terminal block	CH40-HP□-8L	1
	Output	32	PNP	Relay/SSR terminal block	CH40-HP□-E1T4L	1

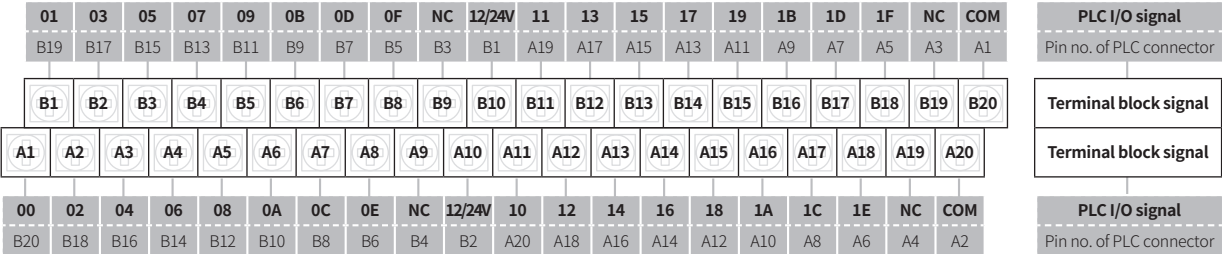
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

- Cable connection diagram

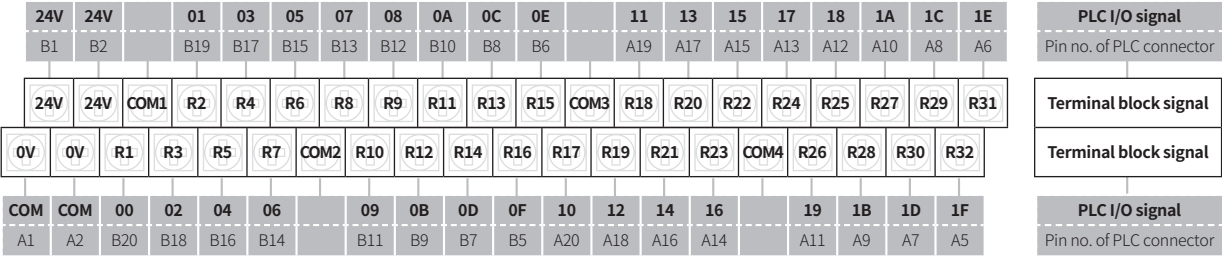
- Interface terminal block input



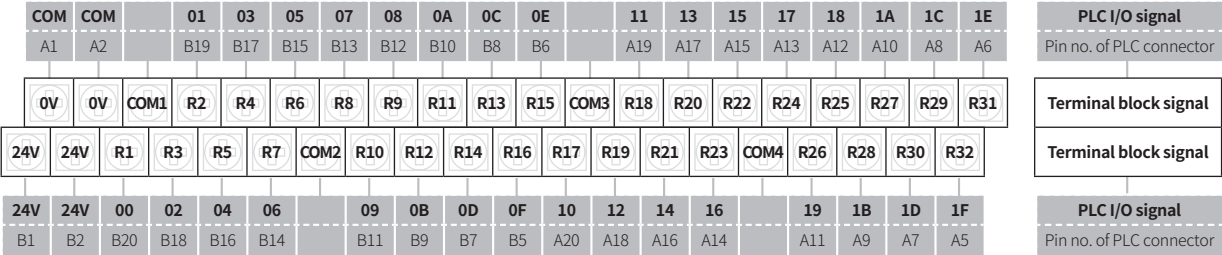
- Interface terminal block output



- Relay/SSR terminal block output (NPN)



- Relay/SSR terminal block output (PNP)



■ LS) XGB Series - Sensor connector terminal block

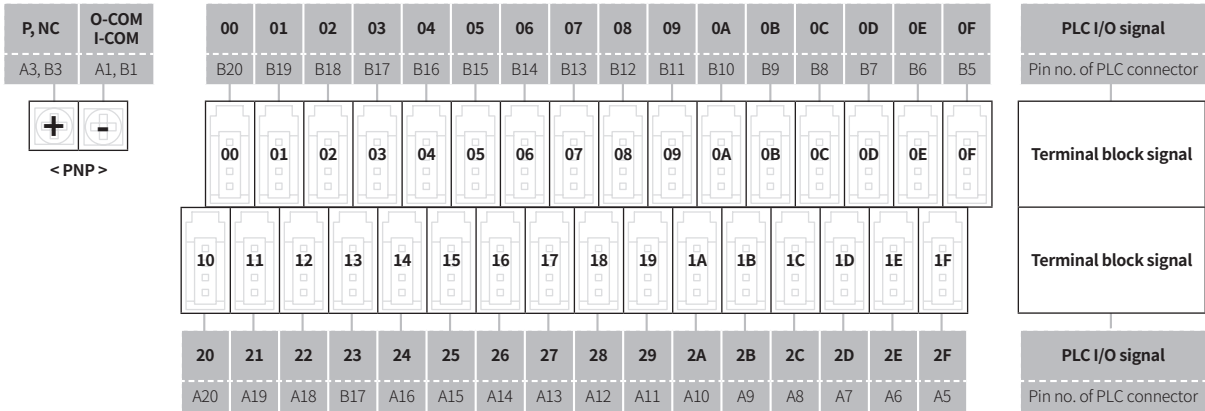
• Cable selection guide

Controller				Terminal block to connect		Proper cable	
Module name	I/O	No. of I/O	Logic	Type	Logic	Model name	Quantity
XBM-DN32H	Input/Output	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-D1T1L	1
XBE-DN32A	Input/Output	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-D1T1L	1

□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

- Sensor connector terminal block input/output



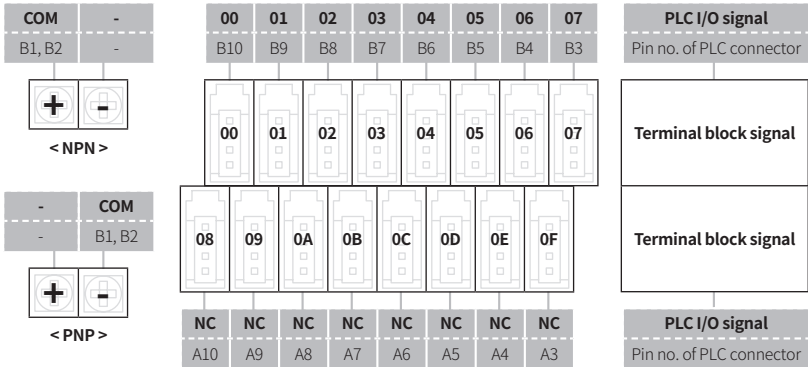
• Cable selection guide

Controller				Terminal block to connect		Proper cable	
Module name	I/O	No. of I/O	Logic	Type	Logic	Model name	Quantity
XBM-DN16S	Input	8	NPN	Sensor connector terminal block	NPN	CH20-HP□-D1T3R	1
	Input	8	PNP	Sensor connector terminal block	PNP	CH20-HP□-D1T6R	1
	Output	8	NPN	Sensor connector terminal block	NPN	CH20-HP□-D1T1L	1

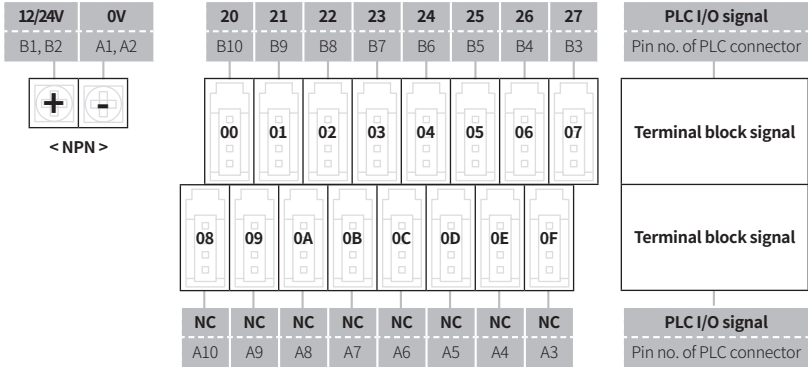
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

- Sensor connector terminal block input



- Sensor connector terminal block output



■ LS) XGB Series - Sensor connector terminal block

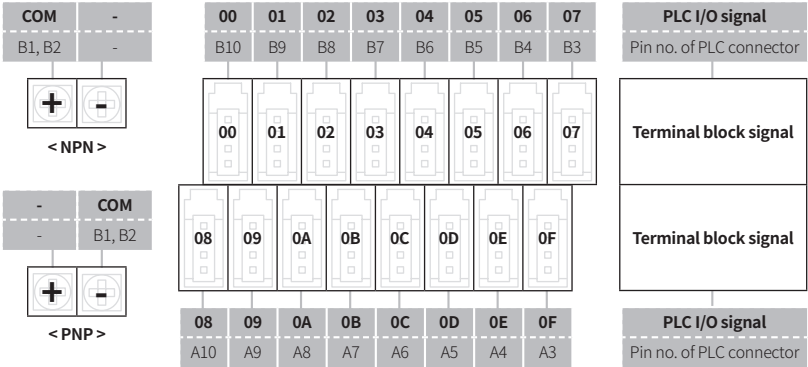
- Cable selection guide

Controller				Terminal block to connect		Proper cable	
Module name	I/O	No. of I/O	Logic	Type	Logic	Model name	Quantity
XBM-DN32S	Input	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-D1T3R	1
	Input	16	PNP	Sensor connector terminal block	PNP	CH20-HP□-D1T6R	1
	Output	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-D1T1L	1

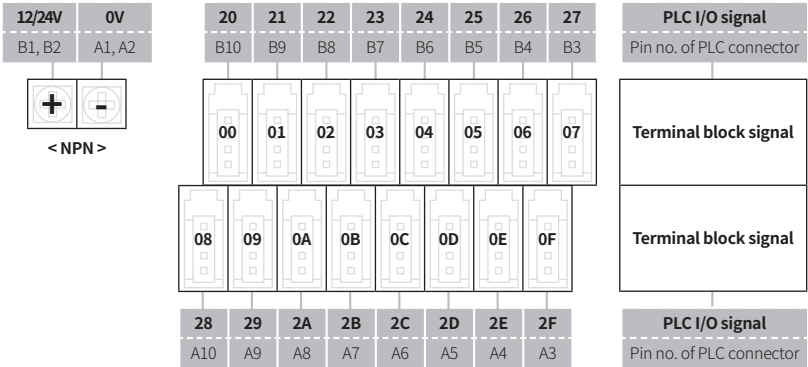
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

- Cable connection diagram

- Sensor connector terminal block input



- Sensor connector terminal block output



■ LS) XGB Series - Sensor connector terminal block

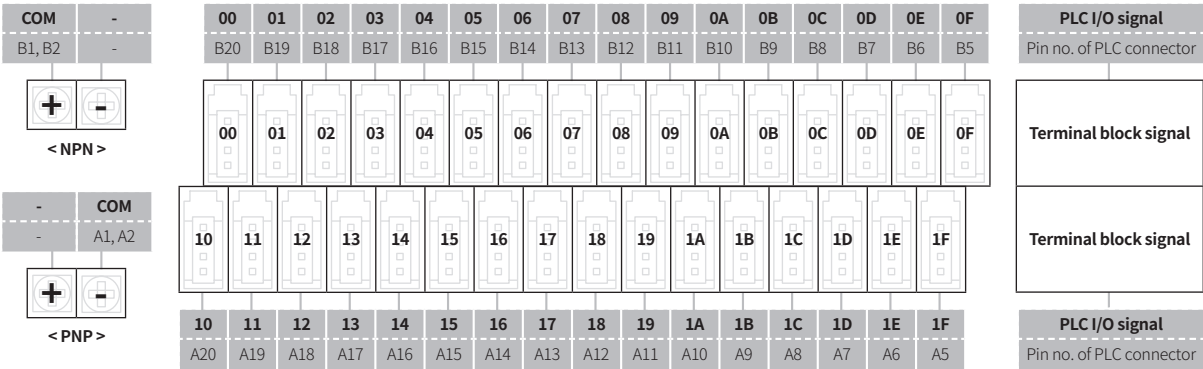
• Cable selection guide

Controller				Terminal block to connect		Proper cable	
Module name	I/O	No. of I/O	Logic	Type	Logic	Model name	Quantity
XBE-DC32A	Input	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-E1T3L	1
	Input	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-E1T2L	1
XBE-TN32A	Output	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-E1T1L	1
XBE-TP32A	Output	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-E1T1L	1

□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

- Sensor connector terminal block input



■ MITSUBISHI) iQ-F Series - Interface terminal block

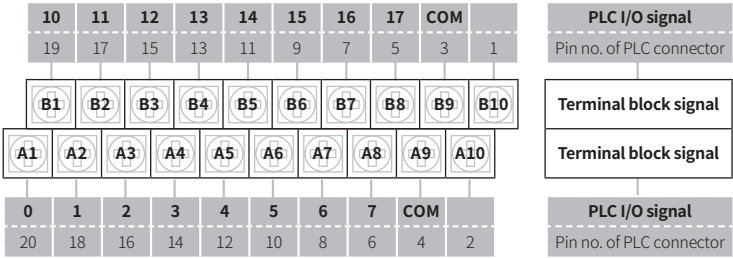
- Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
FX5-C16EX/D	Input	16	NPN	Interface terminal block	CH20-HP□-4R	1
FX5-C16EX/DS	Input	16	-	Interface terminal block	CH20-HP□-4R	1
FX5-C32EX/D	Input	32	NPN	Interface terminal block	CH40-HP□-8R-FS	1
FX5-C32EX/DS	Input	32	-	Interface terminal block	CH40-HP□-8R-FS	1
FX5-C16EYT/D	Output	16	NPN	Interface terminal block	CH20-HP□-4R	1
FX5-C16EYT/DSS	Output	16	PNP	Interface terminal block	CH20-HP□-4R	1
FX5-C32EYT/D	Output	32	NPN	Interface terminal block	CH40-HP□-8R-FS	1
FX5-C32EYT/DSS	Output	32	PNP	Interface terminal block	CH40-HP□-8R-FS	1

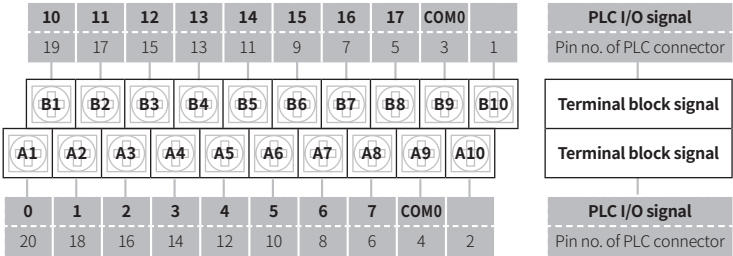
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

- Cable connection diagram

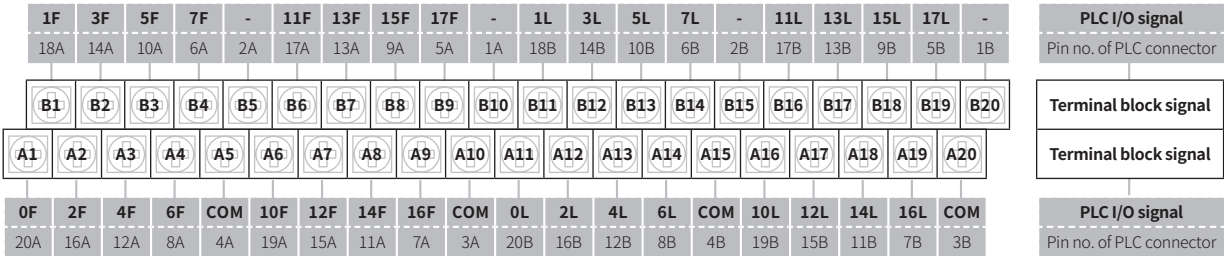
- Interface terminal block input



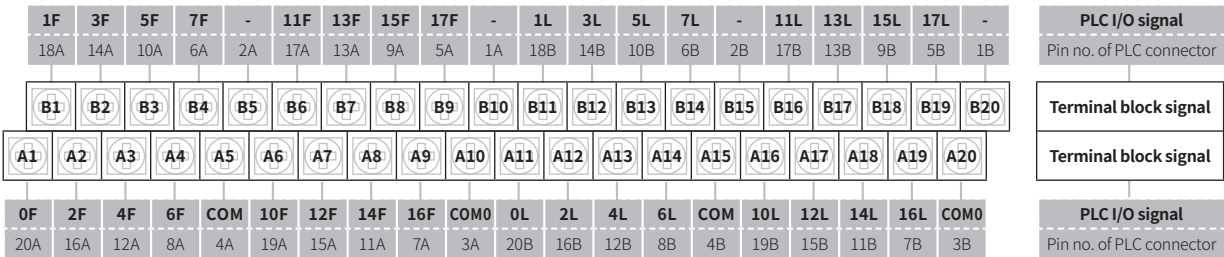
- Interface terminal block output



- Interface terminal block input



- Interface terminal block output



■ MITSUBISHI iQ-R Series - Interface/Relay/SSR terminal block

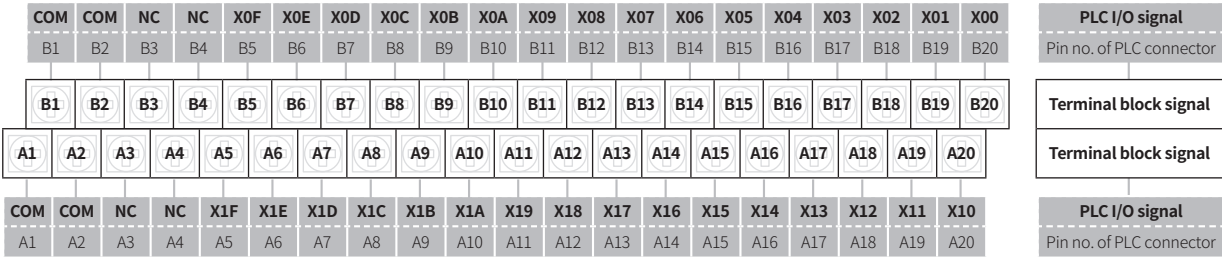
• Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
RX41C4, RX41C6HS	Input	32	-	Interface terminal block	CH40-FP□-1R	1
RY41NT2P, RY41NT2H	Output	32	NPN	Interface terminal block	CH40-FP□-1R	1
	Output	32	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	1
RY41PT1P, RY41PT2H	Output	32	PNP	Interface terminal block	CH40-FP□-1R	1
	Output	32	PNP	Relay/SSR terminal block	CH40-FP□-E1T4R	1
RX42C4	Input	64	-	Interface terminal block	CH40-FP□-1R	2
RY42NT2P	Output	64	NPN	Interface terminal block	CH40-FP□-1R	2
	Output	64	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	2
RY42PT1P	Output	64	PNP	Interface terminal block	CH40-FP□-1R	2
	Output	64	PNP	Relay/SSR terminal block	CH40-FP□-E1T4R	2
RH42C4NT2P	Input	32	-	Interface terminal block	CH40-FP□-1R	1
	Output	32	NPN	Interface terminal block	CH40-FP□-1R	1
	Output	32	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	1

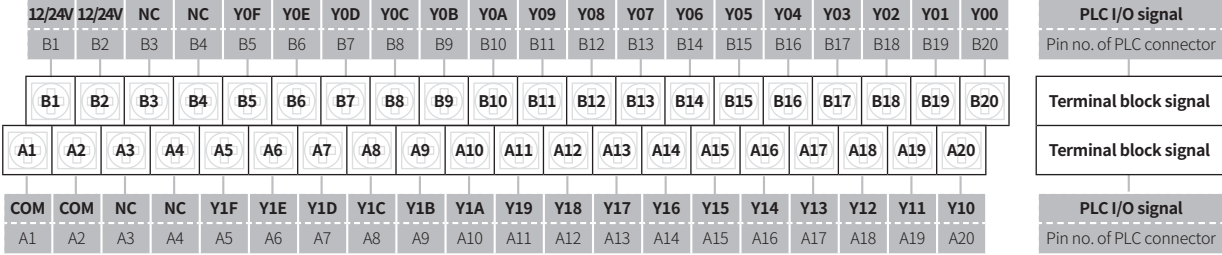
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

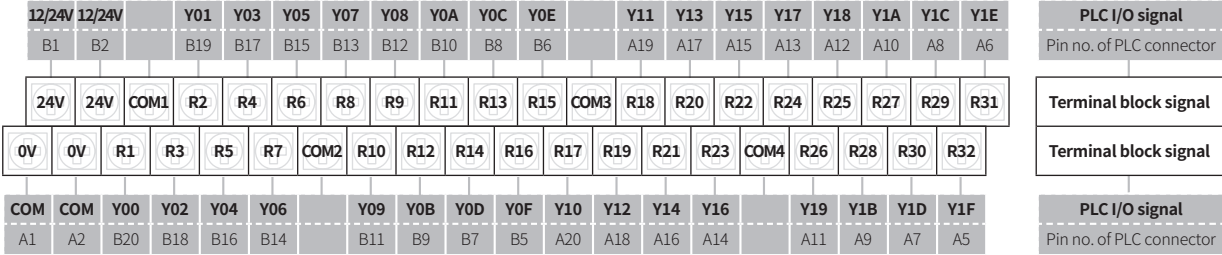
- Interface terminal block input



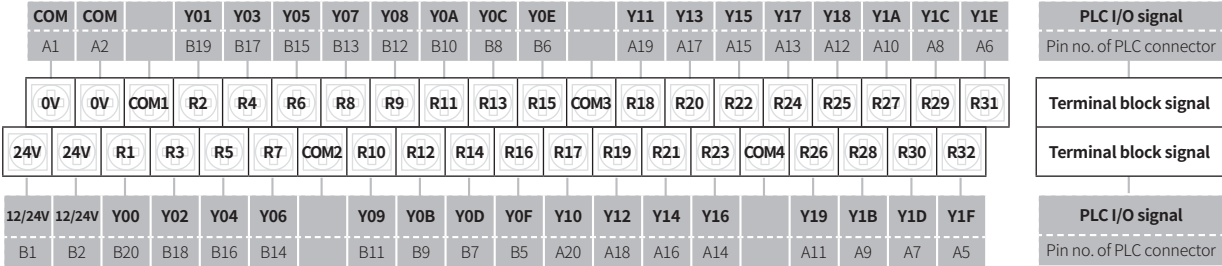
- Interface terminal block output



- Relay/SSR terminal block output (NPN)



- Relay/SSR terminal block output (PNP)



■ MITSUBISHI) iQ-R Series - Sensor connector terminal block

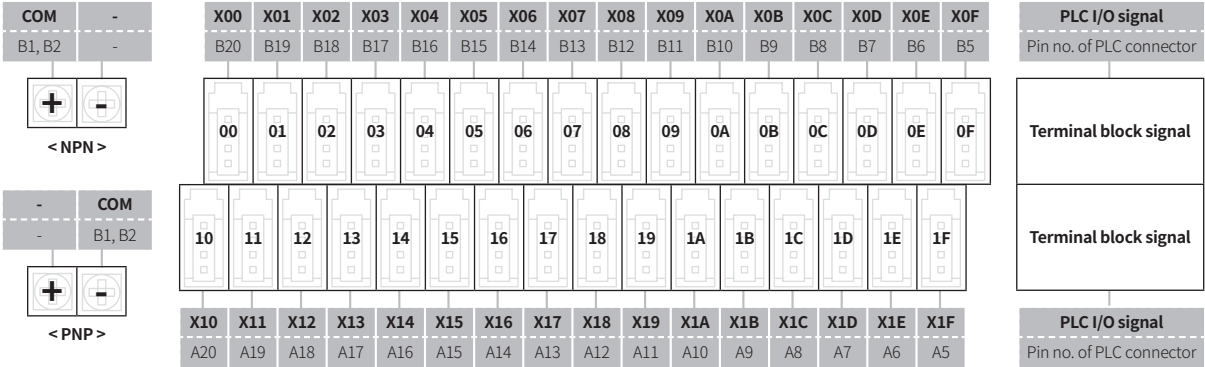
• Cable selection guide

Controller				Terminal block to connect		Proper cable	
Module name	I/O	No. of I/O	Logic	Type	Logic	Model name	Quantity
RX41C4, RX41C6HS	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	1
			PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	1
RY41NT2P, RY41NT2H	Output	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T1R	1
RY41PT1P, RY41PT2H	Output	32	PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T1R	1
RX42C4	Input	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	2
			PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	2
RY42NT2P	Output	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T1R	2
RY42PT1P	Output	64	PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T1R	2
RH42C4NT2P	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	1
			PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	1
	Output	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T1R	1

□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

- Sensor connector terminal block input



X00

X01

X02

X03

X04

X05

X06

X07

X08

X09

X0A

X0B

X0C

X0D

X0E

X0F

B20

B19

B18

B17

B16

B15

B14

B13

B12

B11

B10

B9

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B7

B6

B5

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01

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0C

0D

0E

0F

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11

12

13

14

15

16

17

18

19

1A

1B

1C

1D

1E

1F

X10

X11

X12

X13

X14

X15

X16

X17

X18

X19

X1A

X1B

X1C

X1D

X1E

X1F

A20

A19

A18

A17

A16

A15

A14

A13

A12

A11

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A8

A7

A6

A5

PLC I/O signal

Pin no. of PLC connector

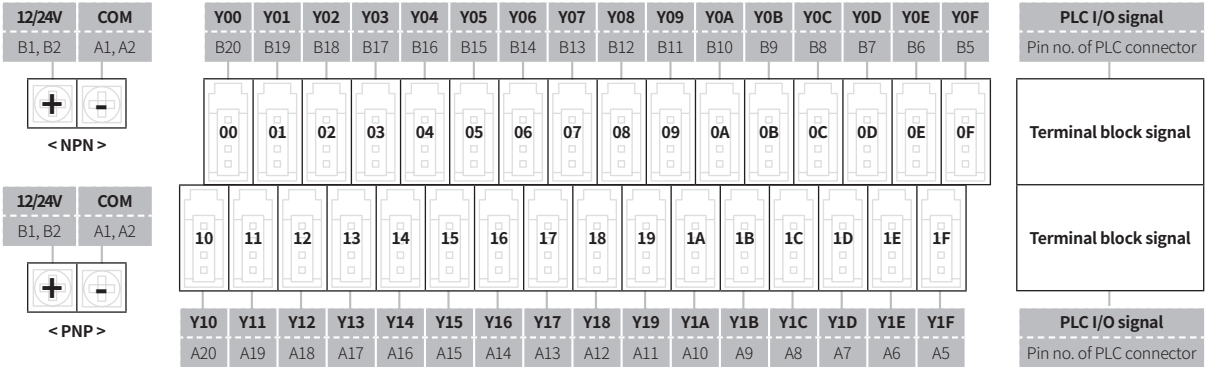
Terminal block signal

Terminal block signal

PLC I/O signal

Pin no. of PLC connector

- Sensor connector terminal block output



Y00

Y01

Y02

Y03

Y04

Y05

Y06

Y07

Y08

Y09

Y0A

Y0B

Y0C

Y0D

Y0E

Y0F

B20

B19

B18

B17

B16

B15

B14

B13

B12

B11

B10

B9

B8

B7

B6

B5

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1A

1B

1C

1D

1E

1F

Y10

Y11

Y12

Y13

Y14

Y15

Y16

Y17

Y18

Y19

Y1A

Y1B

Y1C

Y1D

Y1E

Y1F

A20

A19

A18

A17

A16

A15

A14

A13

A12

A11

A10

A9

A8

A7

A6

A5

PLC I/O signal

Pin no. of PLC connector

Terminal block signal

Terminal block signal

PLC I/O signal

Pin no. of PLC connector

■ MITSUBISHI) QnU Series - Interface/Relay/SSR terminal block

• Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
QX41, QX42-S1/S2	Input	32	-	Interface terminal block	CH40-FP□-1R	1
QH42P, QX41Y41P	Input	32	-	Interface terminal block	CH40-FP□-1R	1
	Output	32	NPN	Interface terminal block	CH40-FP□-1R	1
	Output	32	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	1
QX42, QX42-S1	Input	64	-	Interface terminal block	CH40-FP□-1R	2
QX82	Input	64	-	Interface terminal block	CH40-FP□-1R	2
QY41P	Output	32	NPN	Interface terminal block	CH40-FP□-1R	1
	Output	32	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	1
QY42P	Output	64	NPN	Interface terminal block	CH40-FP□-1R	2
	Output	64	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	2
QY82P	Output	64	PNP	Interface terminal block	CH40-FP□-1R	2
	Output	64	PNP	Relay/SSR terminal block	CH40-FP□-E1T4R	2

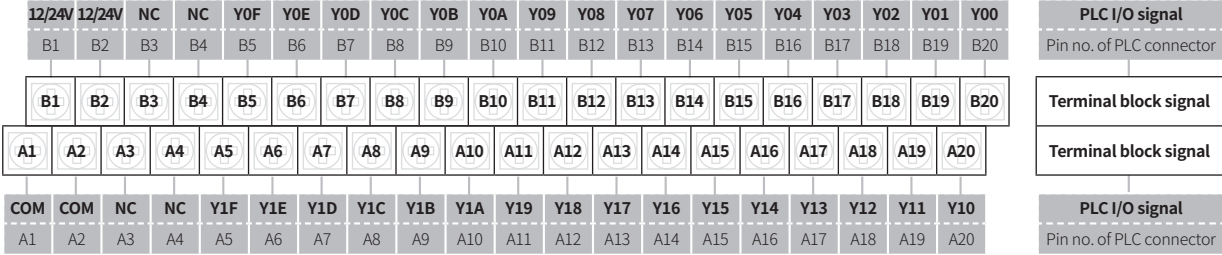
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

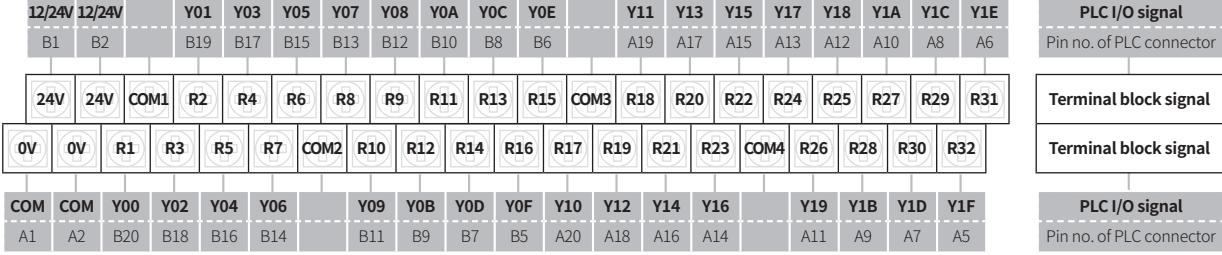
- Interface terminal block input



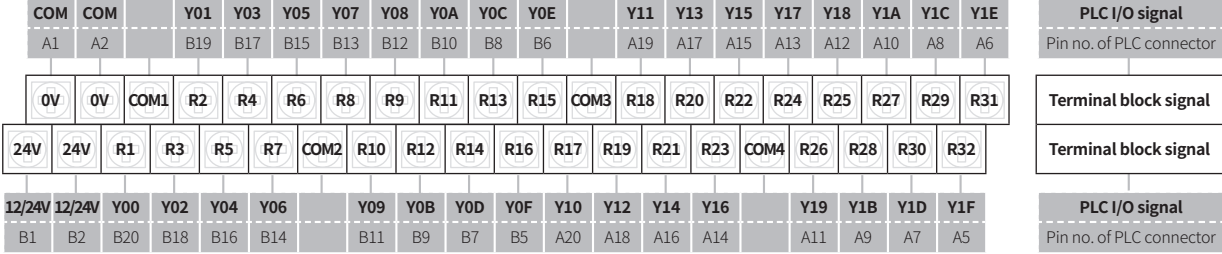
- Interface terminal block output



- Relay/SSR terminal block output (NPN)



- Relay/SSR terminal block output (PNP)



■ MITSUBISHI) QnU Series - Interface/Relay/SSR terminal block

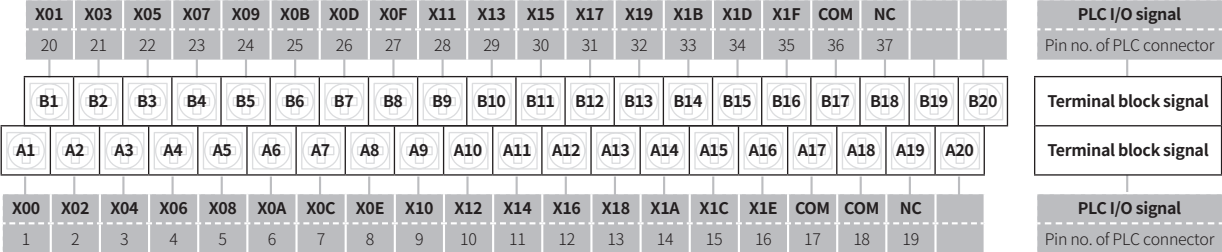
- Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
QX81, QX81-S2	Input	32	-	Interface terminal block	CH37-DP□-3R	1
QY81P	Output	32	PNP	Interface terminal block	CH37-DP□-3R	1
	Output	32	PNP	Relay/SSR terminal block	CH37-DP□-B6T1R	1

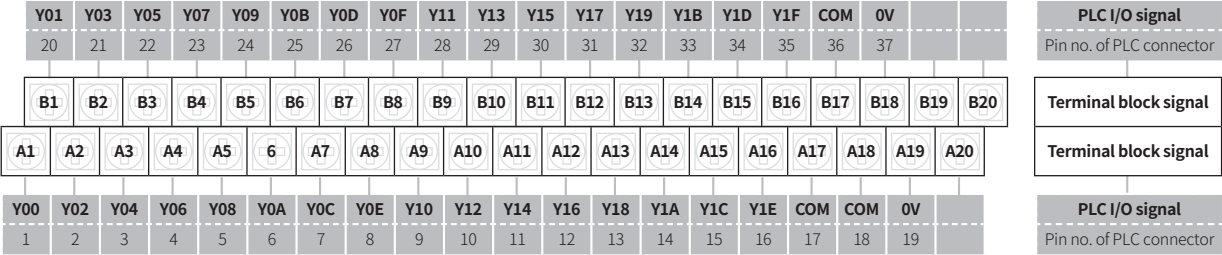
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

- Cable connection diagram

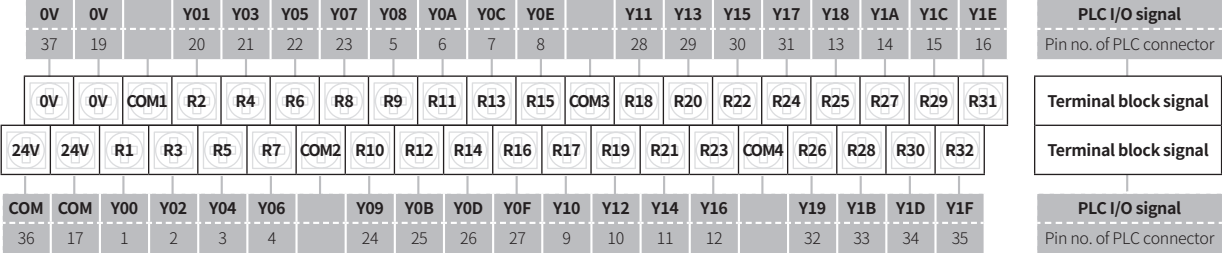
- Interface terminal block Input



- Interface terminal block output



- Relay/SSR terminal block output



■ MITSUBISHI) QnU Series - Sensor connector terminal block

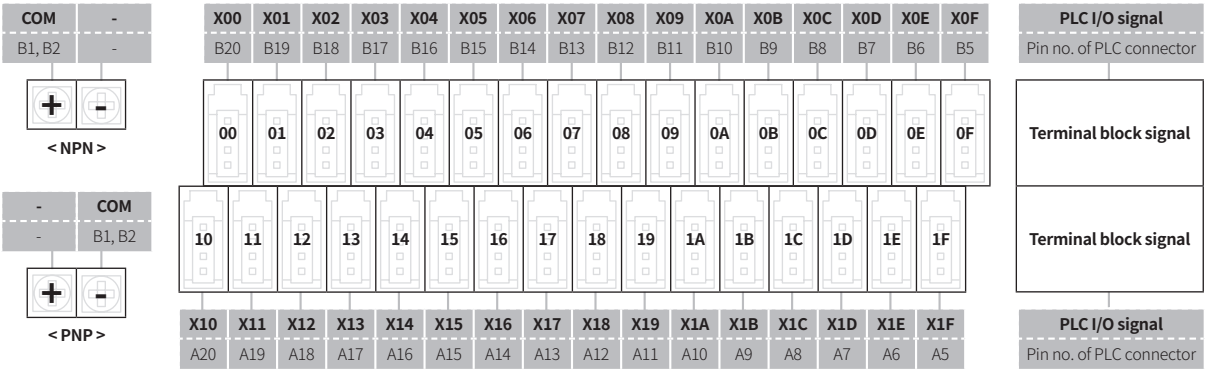
• Cable selection guide

Controller				Terminal block to connect		Proper cable	
Module name	I/O	No. of I/O	Logic	Type	Logic	Model name	Quantity
QX41, QX42-S1/S2	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	1
			PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	1
QH42P, QX41Y41P	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	1
			PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	1
	Output	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T1R	1
			PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	1
QX42, QX42-S1	Input	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	2
			PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	2
QX82	Input	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	2
			PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	2
QY41P	Output	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T1R	1
QY42P	Output	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T1R	2
QY82P	Output	64	PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T1R	2

□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

- Sensor connector terminal block input



X00

X01

X02

X03

X04

X05

X06

X07

X08

X09

X0A

X0B

X0C

X0D

X0E

X0F

B20

B19

B18

B17

B16

B15

B14

B13

B12

B11

B10

B9

B8

B7

B6

B5

00

01

02

03

04

05

06

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0C

0D

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0F

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18

19

1A

1B

1C

1D

1E

1F

X10

X11

X12

X13

X14

X15

X16

X17

X18

X19

X1A

X1B

X1C

X1D

X1E

X1F

A20

A19

A18

A17

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A12

A11

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A9

A8

A7

A6

A5

PLC I/O signal

Pin no. of PLC connector

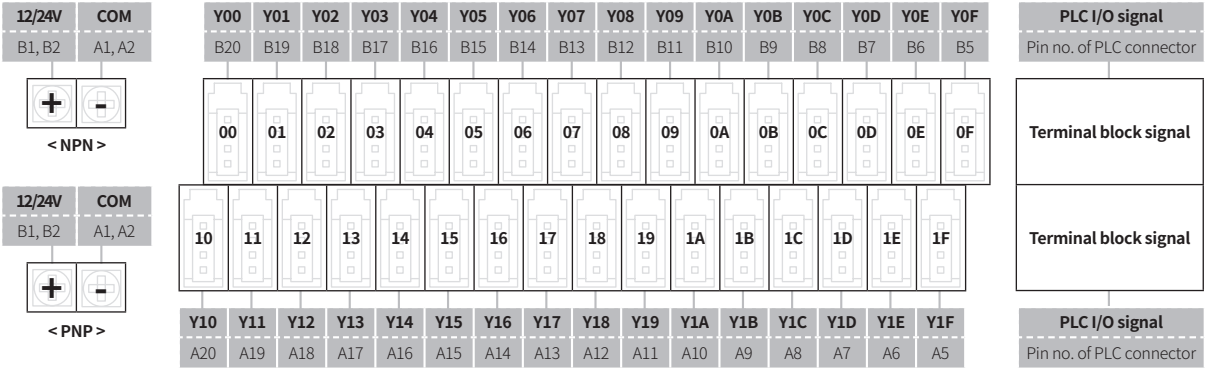
Terminal block signal

Terminal block signal

PLC I/O signal

Pin no. of PLC connector

- Sensor connector terminal block output



Y00

Y01

Y02

Y03

Y04

Y05

Y06

Y07

Y08

Y09

Y0A

Y0B

Y0C

Y0D

Y0E

Y0F

B20

B19

B18

B17

B16

B15

B14

B13

B12

B11

B10

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B8

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17

18

19

1A

1B

1C

1D

1E

1F

Y10

Y11

Y12

Y13

Y14

Y15

Y16

Y17

Y18

Y19

Y1A

Y1B

Y1C

Y1D

Y1E

Y1F

A20

A19

A18

A17

A16

A15

A14

A13

A12

A11

A10

A9

A8

A7

A6

A5

PLC I/O signal

Pin no. of PLC connector

Terminal block signal

Terminal block signal

PLC I/O signal

Pin no. of PLC connector

■ MITSUBISHI) QnU Series - Sensor connector terminal block

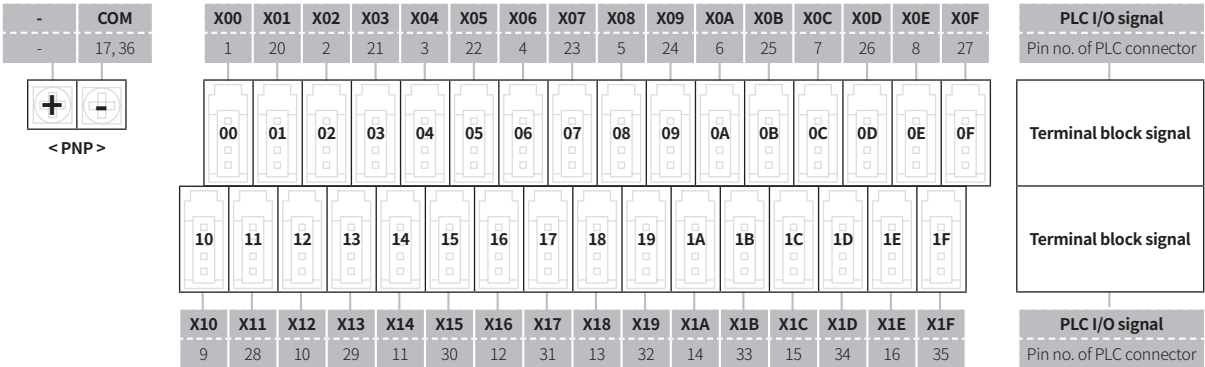
• Cable selection guide

Controller				Terminal block to connect		Proper cable	
Module name	I/O	No. of I/O	Logic	Type	Logic	Model name	Quantity
QX81, QX81-S2	Input	32	PNP	Sensor connector terminal block	PNP	CH37-DP□-B6T2R	1
QY81P	Output	32	PNP	Sensor connector terminal block	PNP	CH37-DP□-B6T1R	1

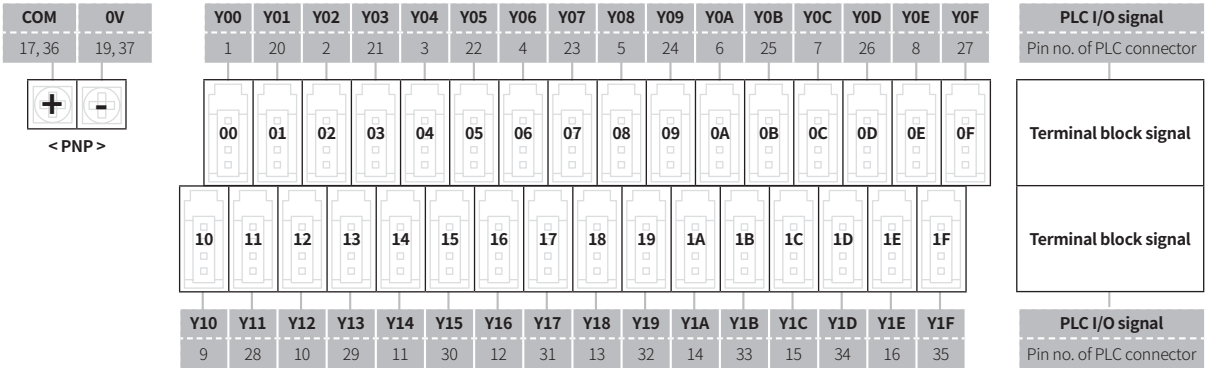
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

- Sensor connector terminal block input



- Sensor connector terminal block output



■ OMRON) CJ/NJ Series - Interface/Relay/SSR terminal block

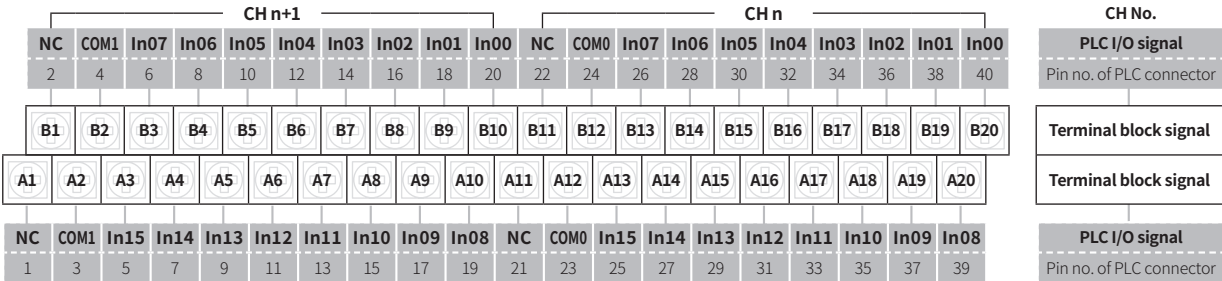
• Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
CJ1W-ID232, CJ1W-ID233	Input	32	-	Interface terminal block	CH40-HP□-4L	1
CJ1W-ID262	Input1	32	-	Interface terminal block	CH40-HP□-1R	1
	Input2	32	-	Interface terminal block	CH40-HP□-4L	1
CJ1W-OD233, CJ1W-OD234	Output	32	NPN	Interface terminal block	CH40-HP□-4L	1
	Output	32	NPN	Relay/SSR terminal block	CH40-HP□-HCM1L	1
CJ1W-OD263	Output1	32	NPN	Interface terminal block	CH40-HP□-1R	1
	Output2	32	NPN	Interface terminal block	CH40-HP□-4L	1
	Output1	32	NPN	Relay/SSR terminal block	CH40-HP□-L9M4R	1
	Output2	32	NPN	Relay/SSR terminal block	CH40-HP□-HCM1L	1
CJ1W-OD232	Output	32	PNP	Interface terminal block	CH40-HP□-4L	1
	Output	32	PNP	Relay/SSR terminal block	CH40-HP□-HCM4L	1
CJ1W-OD262	Output1	32	PNP	Interface terminal block	CH40-HP□-1R	1
	Output2	32	PNP	Interface terminal block	CH40-HP□-4L	1
	Output1	32	PNP	Relay/SSR terminal block	CH40-HP□-L9M1R	1
	Output2	32	PNP	Relay/SSR terminal block	CH40-HP□-HCM4L	1
CJ1W-MD263	Input	32	-	Interface terminal block	CH40-HP□-4L	1
	Output	32	NPN	Interface terminal block	CH40-HP□-1R	1
	Output	32	NPN	Relay/SSR terminal block	CH40-HP□-L9M1R	1

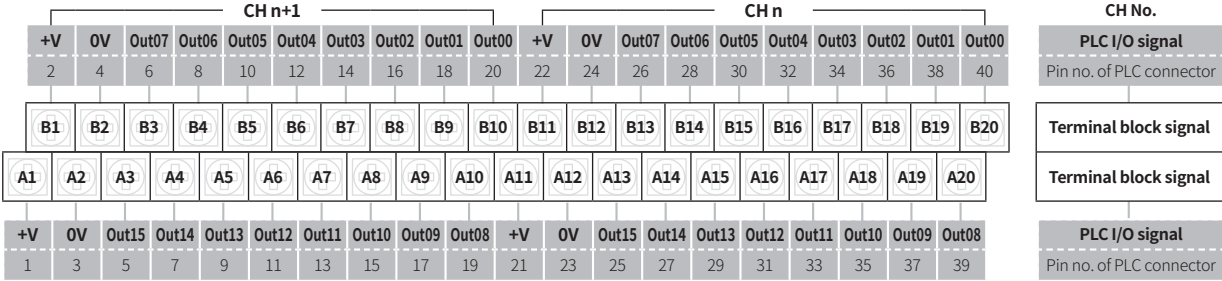
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

- Interface terminal block input









































- Interface terminal block output



CH n														CH n+1													
V+	V+		Out1	Out3	Out5	Out7	Out8	Out10	Out12	Out14		Out1	Out3	Out5	Out7	Out8	Out10	Out12	Out14								
1	21		38	34	30	26	39	35	31	27		18	14	10	6	19	15	11	7								
OV	OV	COM1	R2	R4	R6	R8	R9	R11	R13	R15	COM3	R18	R20	R22	R24	R25	R27	R29	R31								
24V	24V	R1	R3	R5	R7	COM2	R10	R12	R14	R16	R17	R19	R21	R23	COM4	R26	R28	R30	R32								
COM0	COM0	Out0	Out2	Out4	Out6		Out9	Out11	Out13	Out15	Out0	Out2	Out4	Out6		Out9	Out11	Out13	Out15								
3	23	40	36	32	28		37	33	29	25	20	16	12	8		17	13	9	5								

CH n												CH n+1									
V+	V+		Out1	Out3	Out5	Out7	Out8	Out10	Out12	Out14		Out1	Out3	Out5	Out7	Out8	Out10	Out12	Out14		
22	2		38	34	30	26	39	35	31	27		18	14	10	6	19	15	11	7		
24V	24V	COM1	R2	R4	R6	R8	R9	R11	R13	R15	COM3	R18	R20	R22	R24	R25	R27	R29	R31		
0V	0V	R1	R3	R5	R7	COM2	R10	R12	R14	R16	R17	R19	R21	R23	COM4	R26	R28	R30	R32		
COM0	COM0	Out0	Out2	Out4	Out6		Out9	Out11	Out13	Out15	Out0	Out2	Out4	Out6		Out9	Out11	Out13	Out15		
24	4	40	36	32	28		37	33	29	25	20	16	12	8		17	13	9	5		

CH n											CH n+1									
OV	OV		Out1	Out3	Out5	Out7	Out8	Out10	Out12	Out14		Out1	Out3	Out5	Out7	Out8	Out10	Out12	Out14	
3	23		38	34	30	26	39	35	31	27		18	14	10	6	19	15	11	7	
																				
																				
																				
1	21	40	36	32	28		37	33	29	25	20	16	12	8		17	13	9	5	

CH n														CH n+1													
OV	OV		Out1	Out3	Out5	Out7	Out8	Out10	Out12	Out14		Out1	Out3	Out5	Out7	Out8	Out10	Out12	Out14								
24	4		38	34	30	26	39	35	31	27		18	14	10	6	19	15	11	7								
24V	24V	COM1	R2	R4	R6	R8	R9	R11	R13	R15	COM3	R18	R20	R22	R24	R25	R27	R29	R31								
OV	OV	R1	R3	R5	R7	COM2	R10	R12	R14	R16	R17	R19	R21	R23	COM4	R26	R28	R30	R32								
COM0	COM1	Out0	Out2	Out4	Out6		Out9	Out11	Out13	Out15	Out0	Out2	Out4	Out6		Out9	Out11	Out13	Out15								
22	2	40	36	32	28		37	33	29	25	20	16	12	8		17	13	9	5								

CH No.

PLC I/O signal
Pin no. of PLC connector

↓

Terminal block signal
Terminal block signal

↓

PLC I/O signal
Pin no. of PLC connector

■ OMRON) CJ/NJ Series - Interface/Relay/SSR terminal block

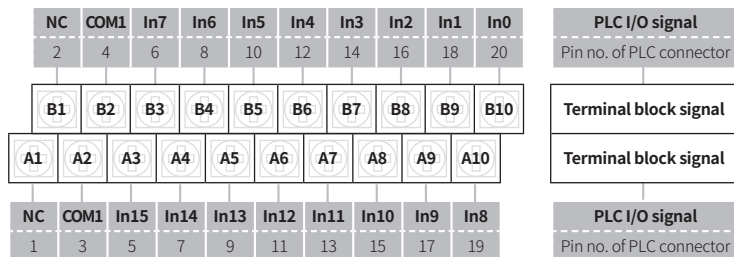
• Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
CJ1W-MD233	Input	16	-	Interface terminal block	CH20-HP□-4L	1
	Output	16	NPN	Interface terminal block	CH20-HP□-1R	1
	Output	16	NPN	Relay/SSR terminal block	CH20-HP□-C1T4R	1
CJ1W-MD232	Input	16	-	Interface terminal block	CH20-HP□-4L	1
	Output	16	PNP	Interface terminal block	CH20-HP□-1R	1
	Output	16	PNP	Relay/SSR terminal block	CH20-HP□-C1T4R	1

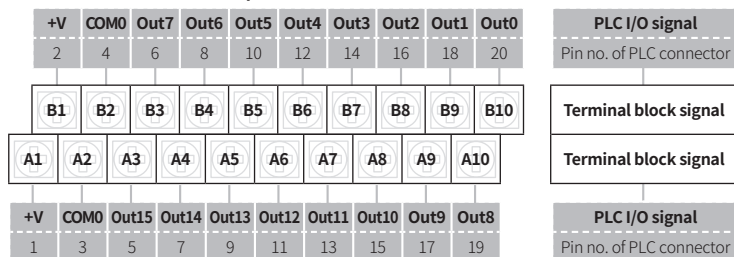
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

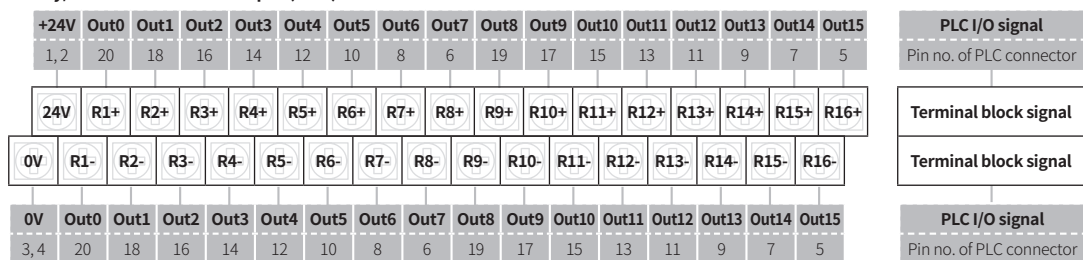
- Interface terminal block input



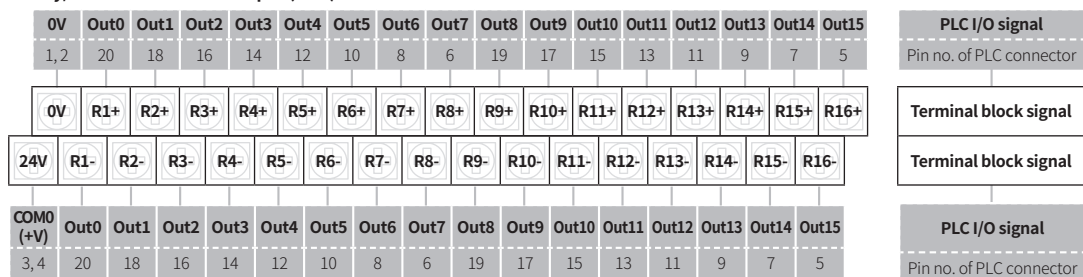
- Interface terminal block output



- Relay/SSR terminal block output (NPN)



- Relay/SSR terminal block output (PNP)



■ OMRON CJ/NJ Series - Interface/Relay/SSR terminal block

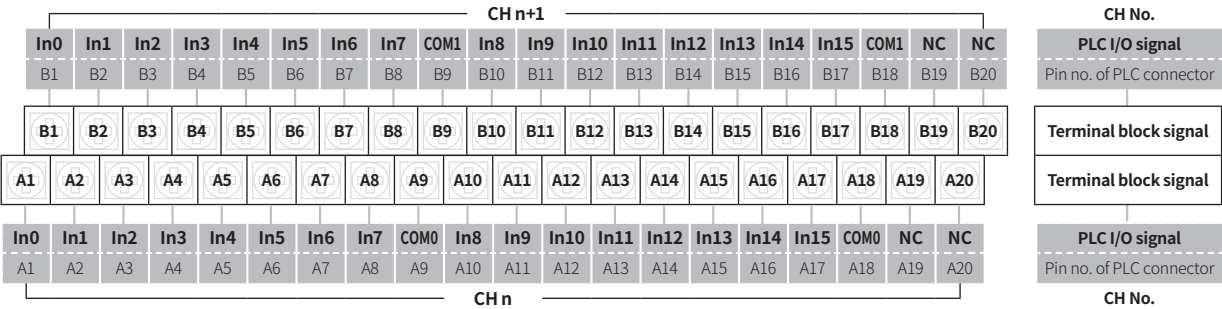
- Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
CJ1W-ID231	Input	32	-	Interface terminal block	CH40-FP□-4L	1
CJ1W-ID261	Input1	32	-	Interface terminal block	CH40-FP□-1R	1
	Input2	32	-	Interface terminal block	CH40-FP□-4L	1
CJ1W-OD231	Output	32	NPN	Interface terminal block	CH40-FP□-4L	1
	Output	32	NPN	Relay/SSR terminal block	CH40-FP□-L1T4L	1
CJ1W-OD261	Output1	32	NPN	Interface terminal block	CH40-FP□-1R	1
	Output2	32	NPN	Interface terminal block	CH40-FP□-4L	1
	Output1	32	NPN	Relay/SSR terminal block	CH40-FP□-I4T1R	1
	Output2	32	NPN	Relay/SSR terminal block	CH40-FP□-L1T4L	1
CJ1W-MD261	Input	32	-	Interface terminal block	CH40-FP□-4L	1
	Output	32	NPN	Interface terminal block	CH40-FP□-1R	1
	Output	32	NPN	Relay/SSR terminal block	CH40-FP□-I4T1R	1

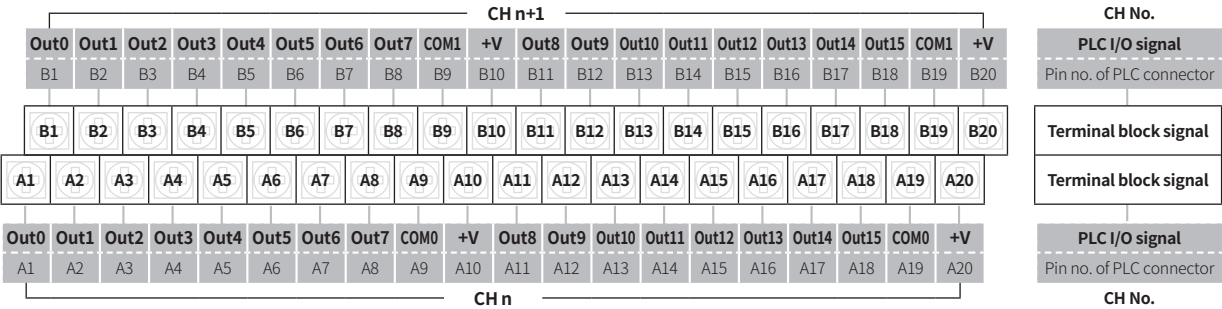
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

- Cable connection diagram

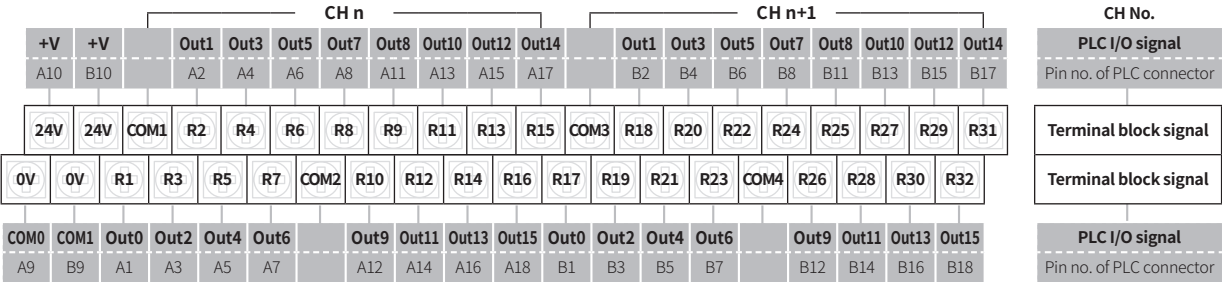
- Interface terminal block input



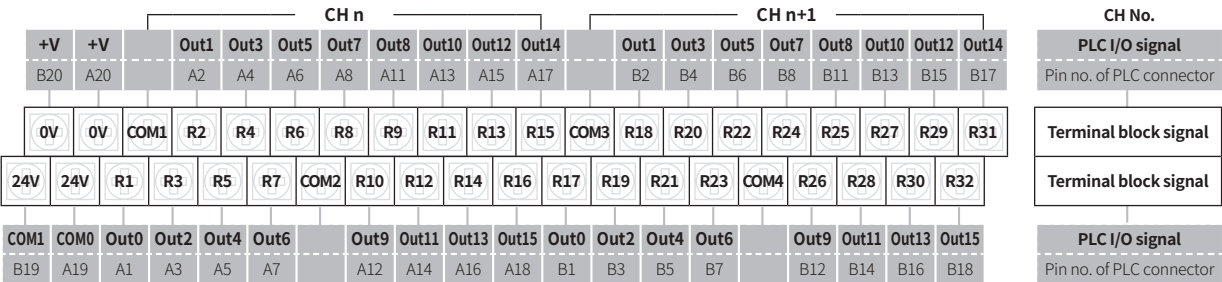
- Interface terminal block output



- Relay/SSR terminal block output, connector direction 'R' (NPN)



- Relay/SSR terminal block output, connector direction 'L' (NPN)



■ OMRON) CJ/NJ Series - Sensor connector terminal block

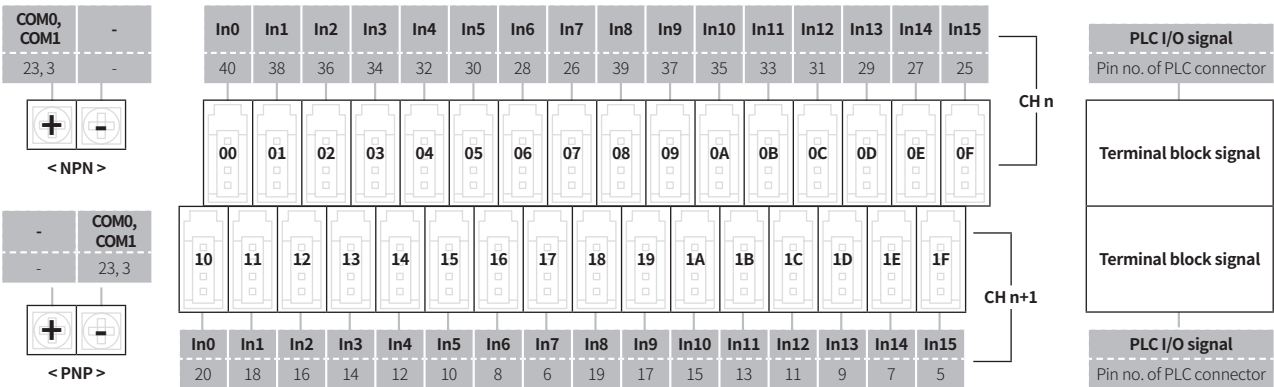
• Cable selection guide

Controller				Terminal block to connect		Proper cable	
Module name	I/O	No. of I/O	Logic	Type	Logic	Model name	Quantity
CJ1W-ID232, CJ1W-ID233	Input	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-HCM3L	1
	Input	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-HCM2L	1
CJ1W-ID262	Input1	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-L9M3R	1
	Input1	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-L9M6R	1
	Input2	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-HCM3L	1
	Input2	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-HCM2L	1
CJ1W-OD233, CJ1W-OD234	Output	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-HCM1L	1
CJ1W-OD263	Output1	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-L9M4R	1
	Output2	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-HCM1L	1
CJ1W-OD232	Output	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-HCM1L	1
CJ1W-OD262	Output1	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-L9M4R	1
	Output2	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-HCM1L	1
CJ1W-MD263	Input	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-HCM3L	1
	Input	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-HCM2L	1
	Output	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-L9M4R	1

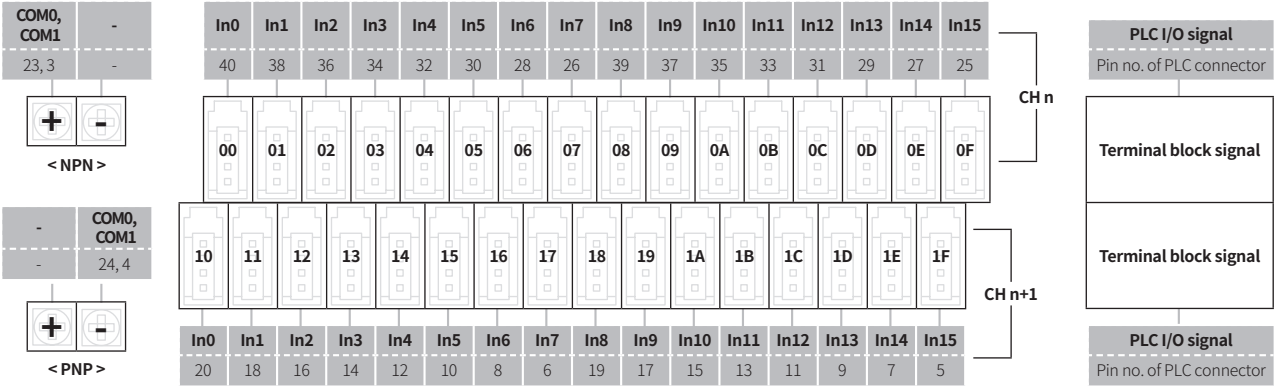
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

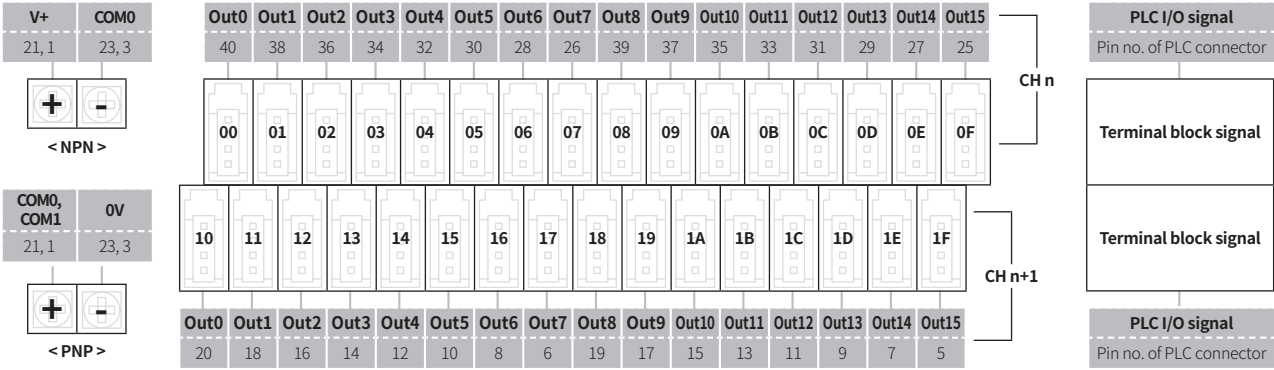
- Sensor connector terminal block input, connector direction 'R'



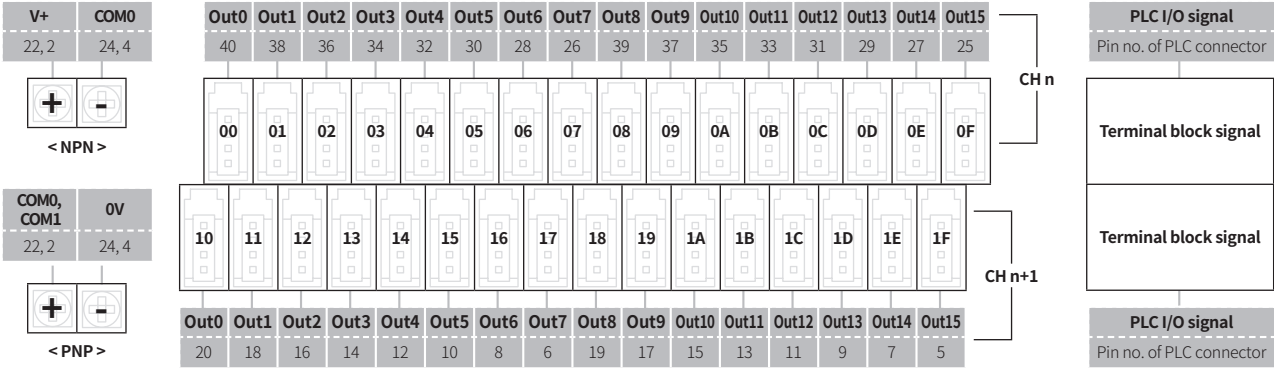
- Sensor connector terminal block input, connector direction 'L'



- Sensor connector terminal block output, connector direction 'R'



- Sensor connector terminal block output, connector direction 'L'



■ OMRON) CJ/NJ Series - Sensor connector terminal block

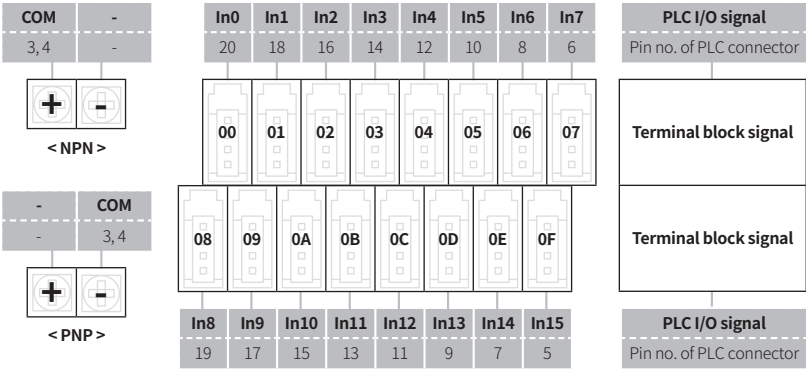
• Cable selection guide

Controller				Terminal block to connect		Proper cable	
Module name	I/O	No. of I/O	Logic	Type	Logic	Model name	Quantity
CJ1W-MD233	Input	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-A4T5L	1
			PNP	Sensor connector terminal block	PNP	CH20-HP□-A4T2L	1
	Output	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T4R	1
CJ1W-MD232	Input	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-A4T5L	1
			PNP	Sensor connector terminal block	PNP	CH20-HP□-A4T2L	1
	Output	16	PNP	Sensor connector terminal block	PNP	CH20-HP□-C1T1R	1

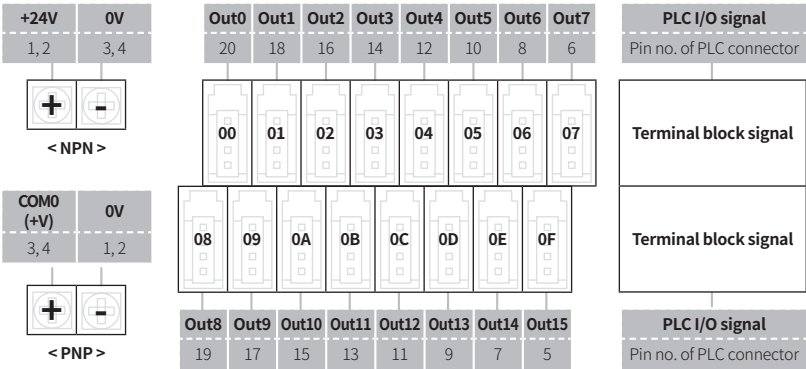
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

- Sensor connector terminal block input



- Sensor connector terminal block output



■ OMRON) CJ/NJ Series - Sensor connector terminal block

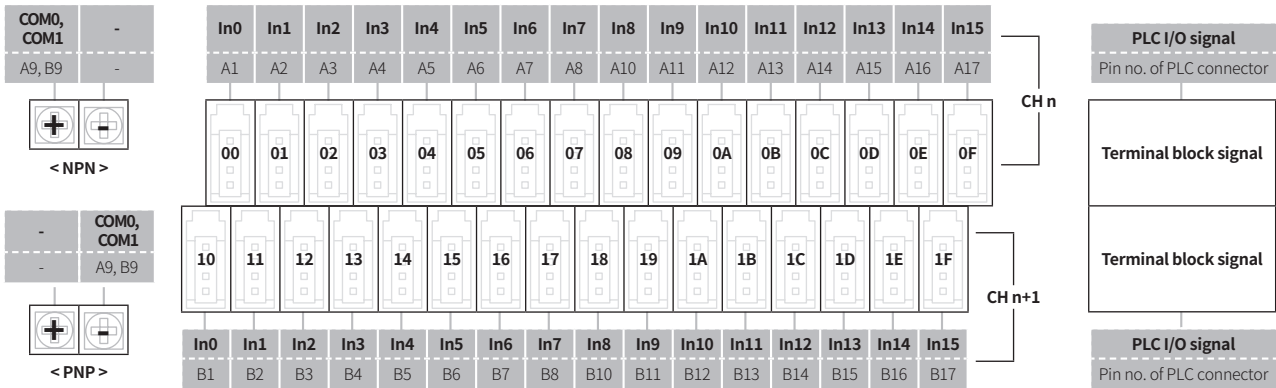
• Cable selection guide

Controller				Terminal block to connect		Proper cable	
Module name	I/O	No. of I/O	Logic	Type	Logic	Model name	Quantity
CJ1W-ID231	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-X1T3L	1
			PNP	Sensor connector terminal block	PNP	CH40-FP□-X1T6L	1
CJ1W-ID261	Input1	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-W4T5R	1
			PNP	Sensor connector terminal block	PNP	CH40-FP□-W4T2R	1
	Input2	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-X1T3L	1
			PNP	Sensor connector terminal block	PNP	CH40-FP□-X1T6L	1
CJ1W-OD231	Output	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-L1T4L	1
CJ1W-OD261	Output1	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-I4T1R	1
	Output2	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-L1T4L	1
CJ1W-MD261	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-X1T3L	1
	Output	32	PNP	Sensor connector terminal block	PNP	CH40-FP□-X1T6L	1
			NPN	Sensor connector terminal block	NPN	CH40-FP□-I4T1R	1

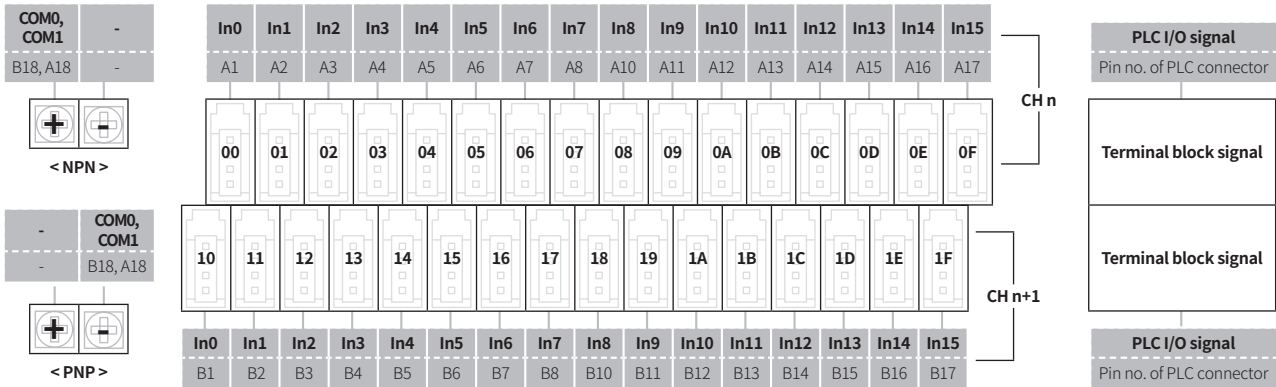
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

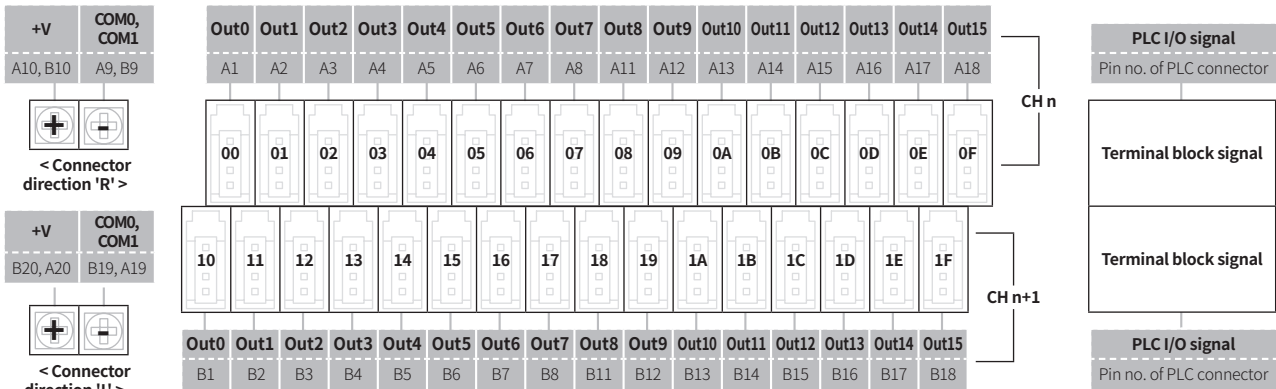
- Sensor connector terminal block input, connector direction 'R'



- Sensor connector terminal block input, connector direction 'L'



- Sensor connector terminal block output (NPN)



■ OMRON) NX Series - Interface/Relay/SSR terminal block

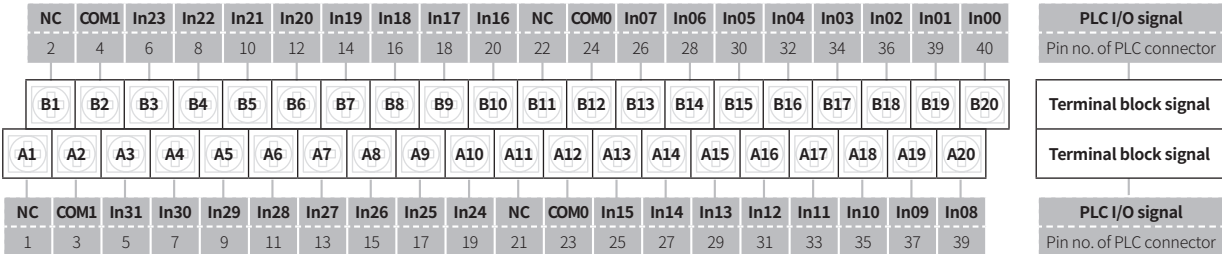
• Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
NX-ID6142-5	Input	32	-	Interface terminal block	CH40-HP□-4L	1
NX-OD6121-5	Output	32	NPN	Interface terminal block	CH40-HP□-4L	1
	Output	32	NPN	Relay/SSR terminal block	CH40-HP□-HCM1L	1
NX-OD6256-5	Output	32	PNP	Interface terminal block	CH40-HP□-4L	1
	Output	32	PNP	Relay/SSR terminal block	CH40-HP□-HCM4L	1

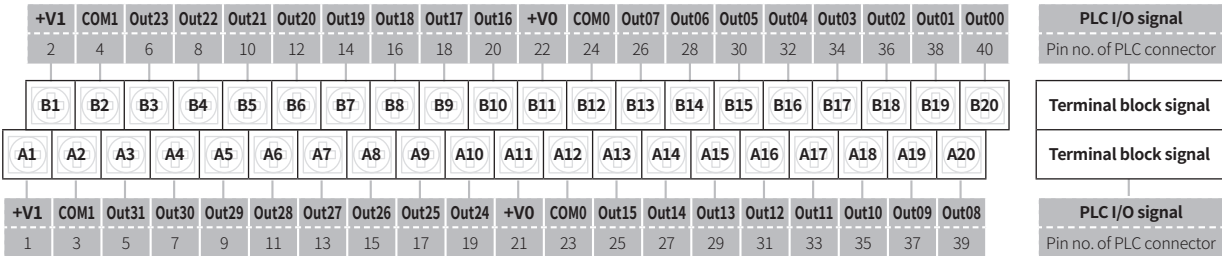
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

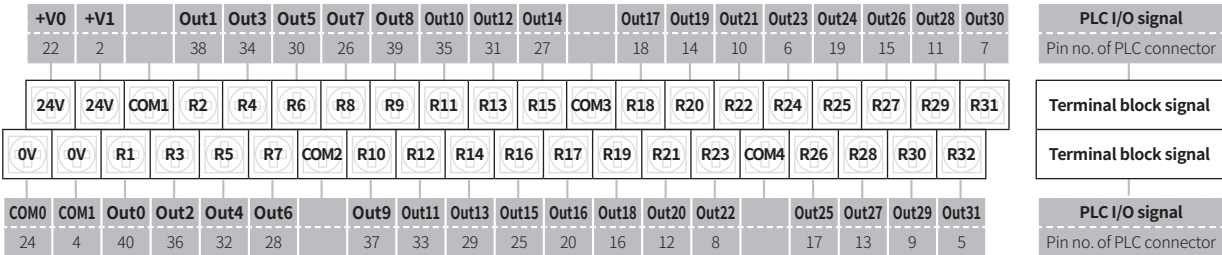
- Interface terminal block input



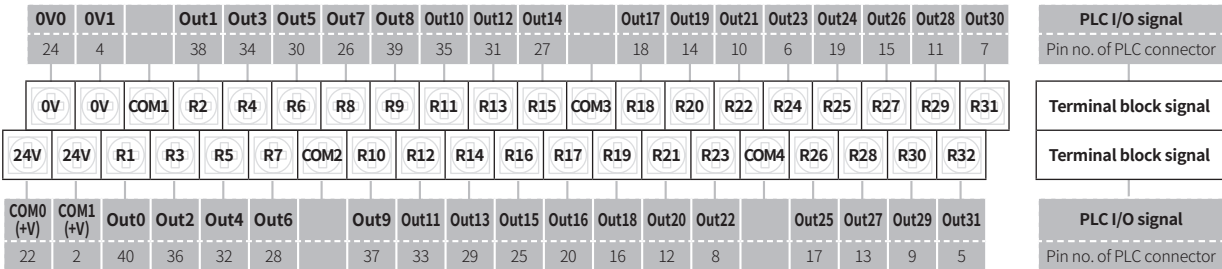
- Interface terminal block output



- Relay/SSR terminal block output (NPN)



- Relay/SSR terminal block output (PNP)



■ OMRON) NX Series - Interface/Relay/SSR terminal block

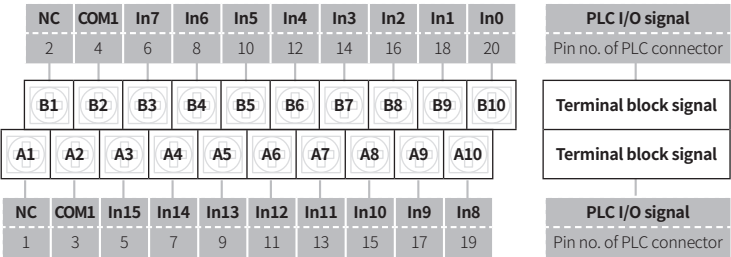
• Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
NX-ID5142-5	Input	16	-	Interface terminal block	CH20-HP□-4L	1
NX-OD5121-5	Output	16	NPN	Interface terminal block	CH20-HP□-4L	1
	Output	16	NPN	Relay/SSR terminal block	CH20-HP□-A4T1L	1
NX-OD5256-5	Output	16	PNP	Interface terminal block	CH20-HP□-4L	1
	Output	16	PNP	Relay/SSR terminal block	CH20-HP□-A4T4L	1
NX-MD6121-5	Input	16	-	Interface terminal block	CH20-HP□-4L	1
	Output	16	NPN	Interface terminal block	CH20-HP□-1R	1
	Output	16	NPN	Relay/SSR terminal block	CH20-HP□-C1T4R	1
NX-MD6256-5	Input	16	-	Interface terminal block	CH20-HP□-4L	1
	Output	16	PNP	Interface terminal block	CH20-HP□-1R	1
	Output	16	PNP	Relay/SSR terminal block	CH20-HP□-C1T4R	1

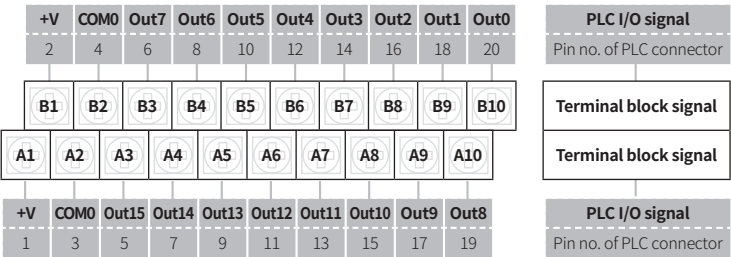
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

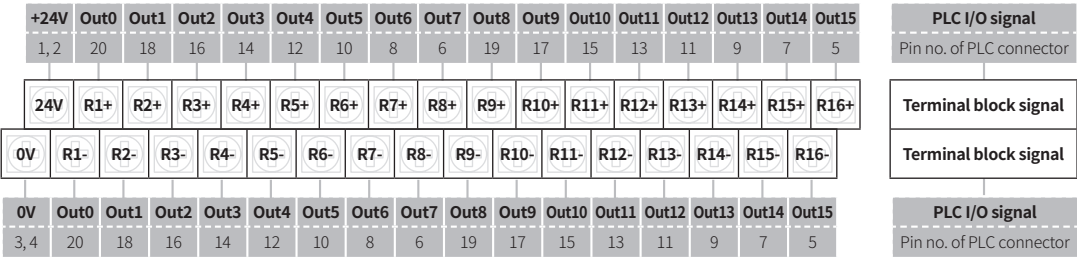
- Interface terminal block input



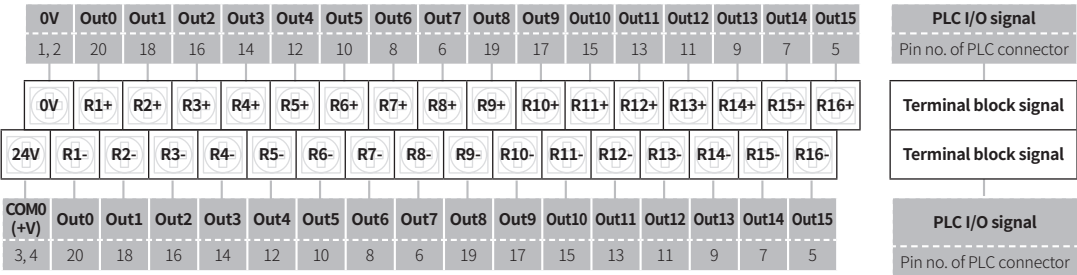
- Interface terminal block output



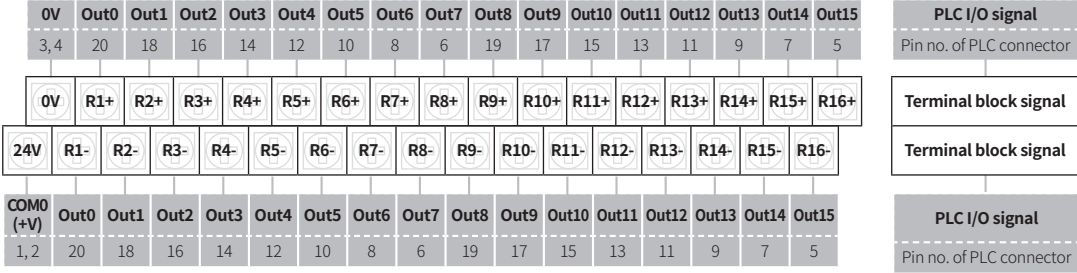
- Relay/SSR terminal block output (NPN)



- Relay/SSR terminal block output, connector direction 'R' (PNP)



- Relay/SSR terminal block output, connector direction 'L' (PNP)



• Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
NX-ID6142-6	Input	32	-	Interface terminal block	CH40-FP□-4L	1
	Output	32	NPN	Interface terminal block	CH40-FP□-4L	1
NX-OD6121-6	Output	32	NPN	Relay/SSR terminal block	CH40-FP□-L1T4L	1

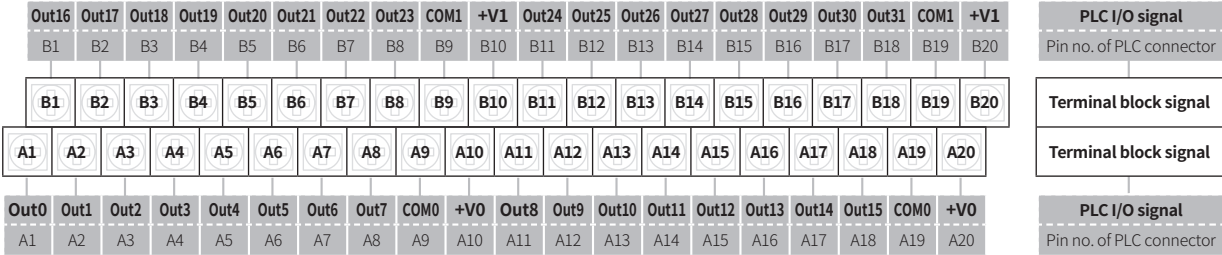
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

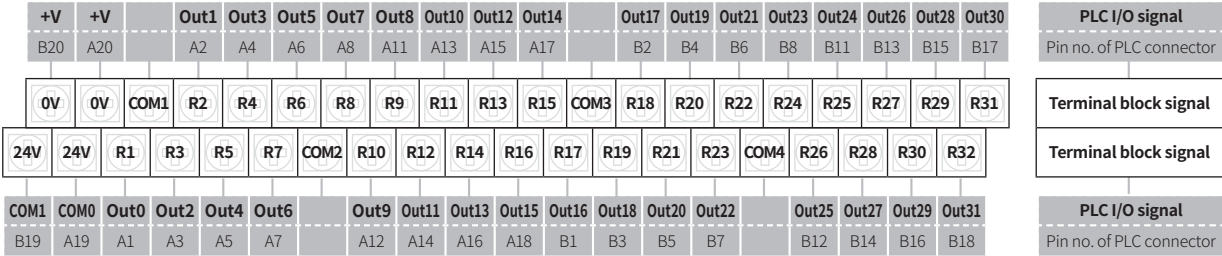
- Interface terminal block input



- Interface terminal block output



- Relay/SSR terminal block output (NPN)



■ OMRON) NX Series - Sensor connector terminal block

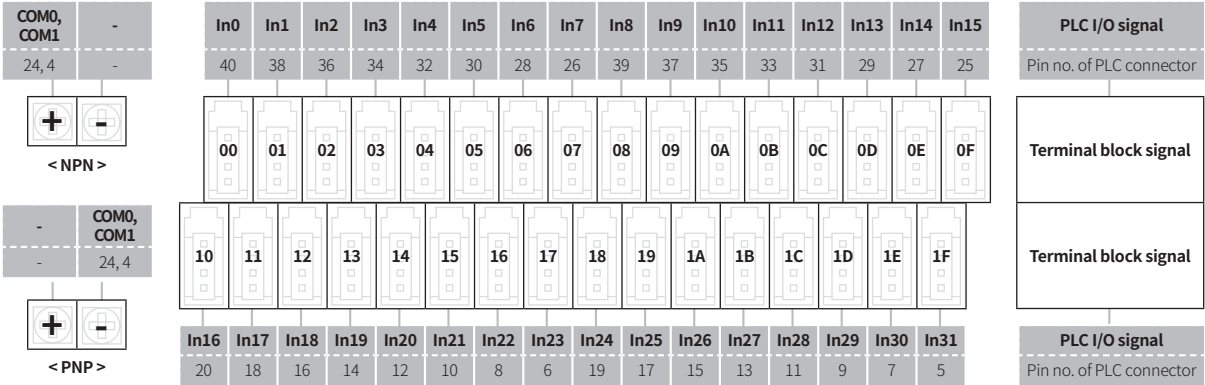
• Cable selection guide

Controller				Terminal block to connect		Proper cable	
Module name	I/O	No. of I/O	Logic	Type	Logic	Model name	Quantity
NX-ID6142-5	Input	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-ICM5L	1
			PNP	Sensor connector terminal block	PNP	CH40-HP□-ICM2L	1
NX-OD6121-5	Output	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-ICM1L	1
NX-OD6256-5	Output	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-ICM1L	1

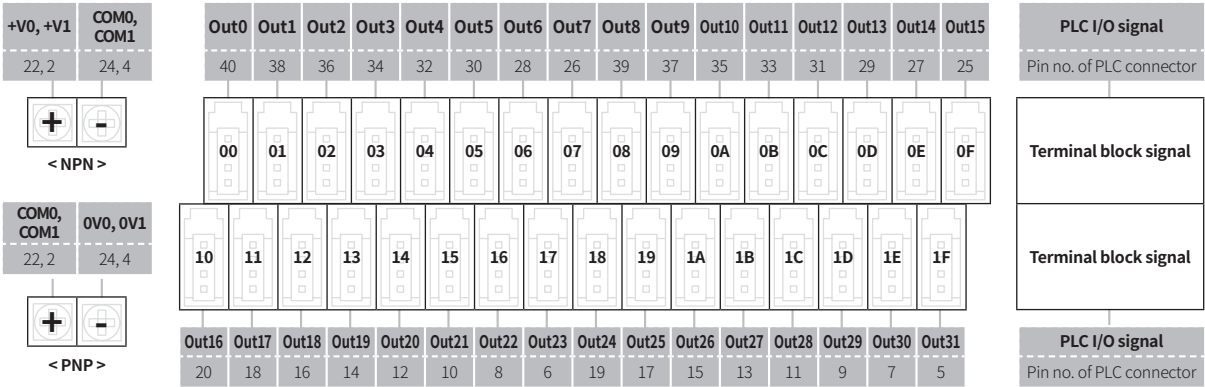
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

- Sensor connector terminal block input



- Sensor connector terminal block output



■ OMRON) NX Series - Sensor connector terminal block

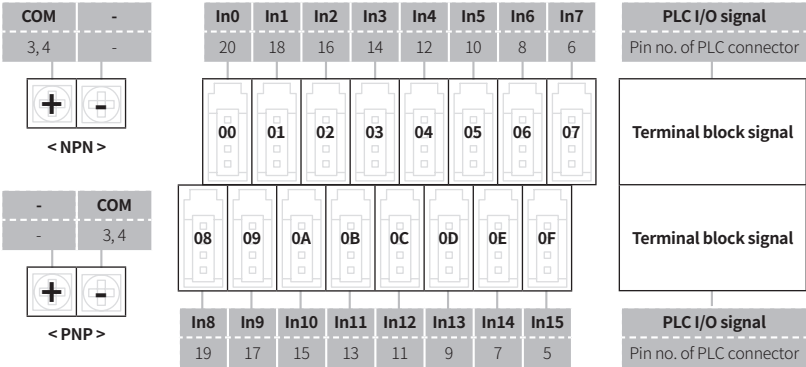
• Cable selection guide

Controller				Terminal block to connect		Proper cable	
Module name	I/O	No. of I/O	Logic	Type	Logic	Model name	Quantity
NX-ID5142-5	Input	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-A4T5L	1
			PNP	Sensor connector terminal block	PNP	CH20-HP□-A4T2L	1
NX-OD5121-5	Output	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-A4T1L	1
NX-OD5256-5	Output	16	PNP	Sensor connector terminal block	PNP	CH20-HP□-A4T1L	1
NX-MD6121-5	Input	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-A4T5L	1
			PNP	Sensor connector terminal block	PNP	CH20-HP□-A4T2L	1
	Output	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T4R	1
NX-MD6256-5	Input	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-A4T5L	1
			PNP	Sensor connector terminal block	PNP	CH20-HP□-A4T2L	1
	Output	16	PNP	Sensor connector terminal block	PNP	CH20-HP□-C1T1R	1

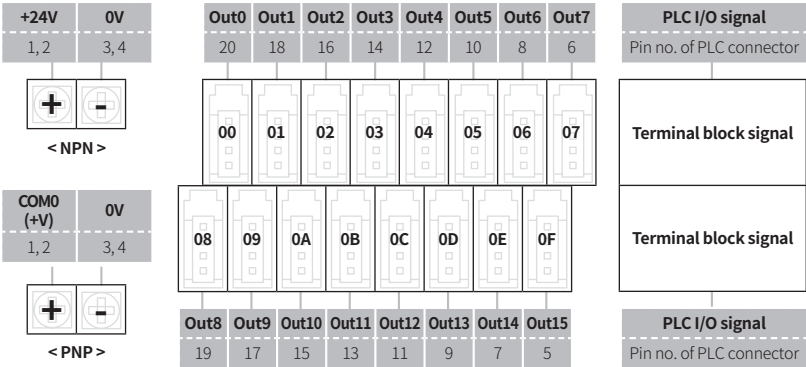
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

- Sensor connector terminal block input



- Sensor connector terminal block output



■ RS Automation) X8 Series - Interface/Relay/SSR terminal block

- Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
X8-XU32, X8-XU32SA	Input	32	-	Interface terminal block	CH40-HP□-4L	1
X8-YN32, X8-YN32S	Output	32	NPN	Interface terminal block	CH40-HP□-4L	1
	Output	32	NPN	Relay/SSR terminal block	CH40-HP□-F5T1L	1

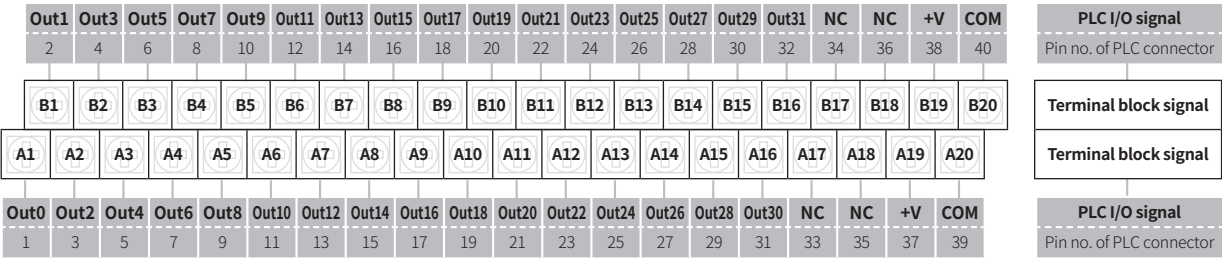
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

- Cable connection diagram

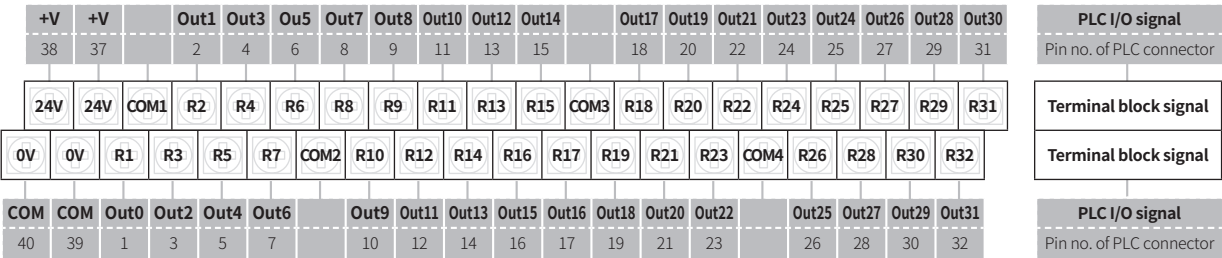
- Interface terminal block input



- Interface terminal block output



- Relay/SSR terminal block output (NPN)



■ RS Automation) X8 Series - Sensor connector terminal block

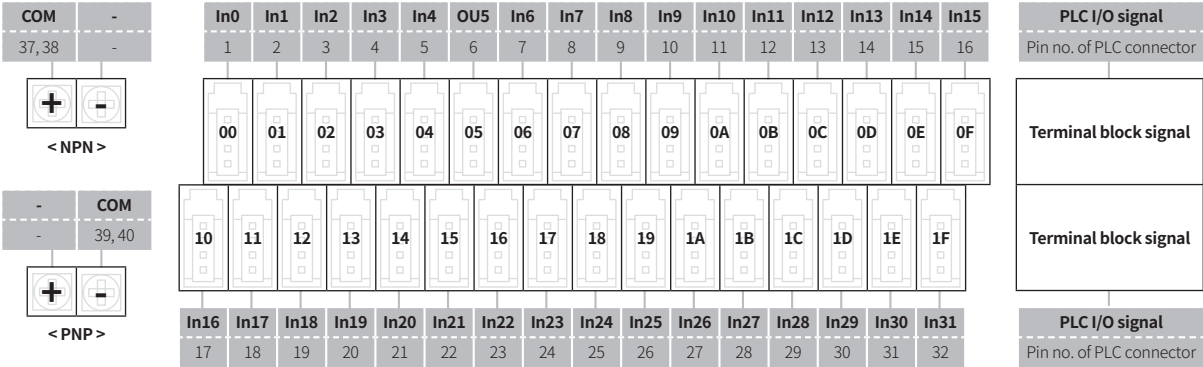
• Cable selection guide

Controller				Terminal block to connect		Proper cable	
Module name	I/O	No. of I/O	Logic	Type	Logic	Model name	Quantity
X8-XU32, X8-XU32SA	Input	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-F5T3L	1
			PNP	Sensor connector terminal block	PNP	CH40-HP□-F5T2L	1
X8-YN32, X8-YN32S	Output	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-F5T1L	1

□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

- Sensor connector terminal block input



PLC I/O signal

Pin no. of PLC connector

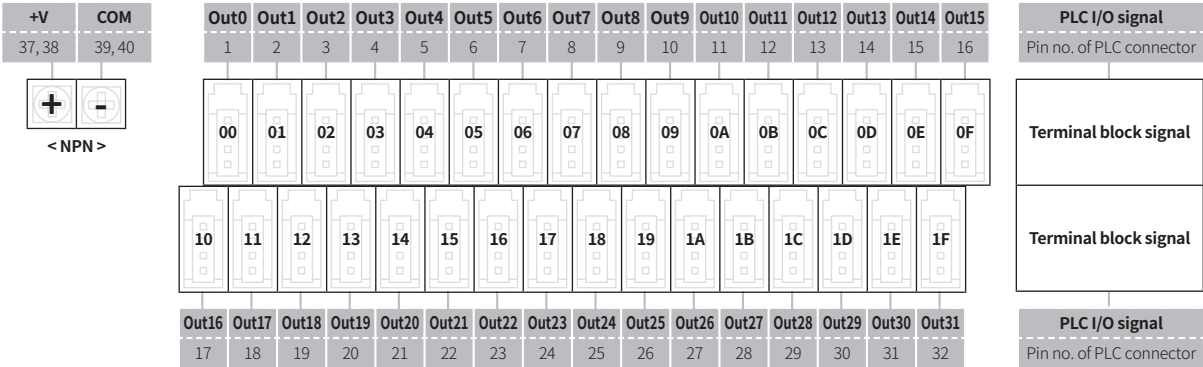
Terminal block signal

Terminal block signal

PLC I/O signal

Pin no. of PLC connector

- Sensor connector terminal block output



PLC I/O signal

Pin no. of PLC connector

Terminal block signal

Terminal block signal

PLC I/O signal

Pin no. of PLC connector

■ YOKOGAWA) FA-M3V Series - Interface/Relay/SSR terminal block

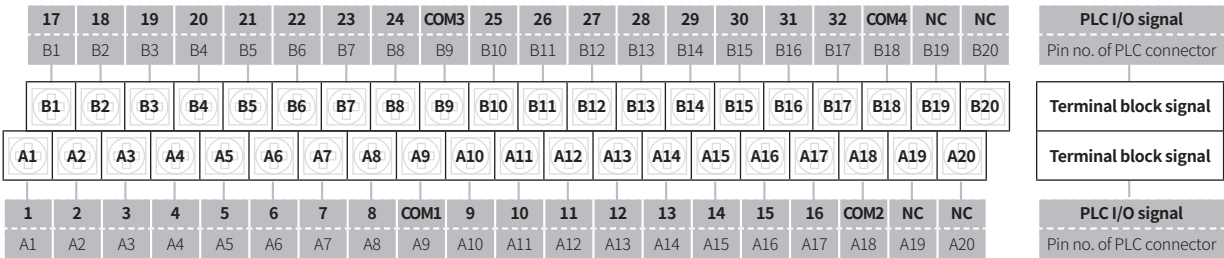
• Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
F3XD32-3F, F3XD32-4F, F3XD32-5F	Input	32	-	Interface terminal block	CH40-FP□-1R	1
F3XD64-3F, F3XD64-4F	Input	64	-	Interface terminal block	CH40-FP□-1R	2
F3YD32-1H, F3YD32-1P	Output	32	NPN	Interface terminal block	CH40-FP□-1R	1
F3YD32-1H, F3YD32-1P	Output	32	NPN	Relay/SSR terminal block	CH40-FP□-I4M1R	1
F3YD64-1P	Output	64	NPN	Interface terminal block	CH40-FP□-1R	2
	Output	64	NPN	Relay/SSR terminal block	CH40-FP□-I4M1R	2
F3YD32-1R	Output	32	PNP	Interface terminal block	CH40-FP□-1R	1
	Output	32	PNP	Relay/SSR terminal block	CH40-FP□-I4M1R	1
F3YD64-1R	Output	64	PNP	Interface terminal block	CH40-FP□-1R	2
	Output	64	PNP	Relay/SSR terminal block	CH40-FP□-I4M1R	2
F3WD64-3P, F3WD64-4P	Input	32	-	Interface terminal block	CH40-FP□-1R	1
	Output	32	NPN	Interface terminal block	CH40-FP□-1R	1
	Output	32	NPN	Relay/SSR terminal block	CH40-FP□-I4M1R	1

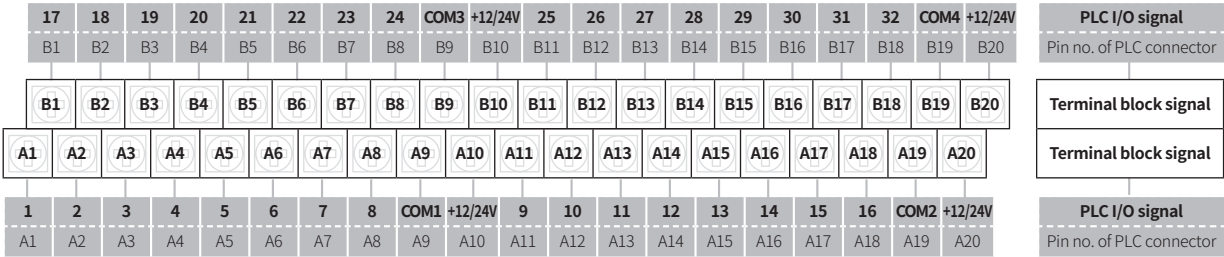
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

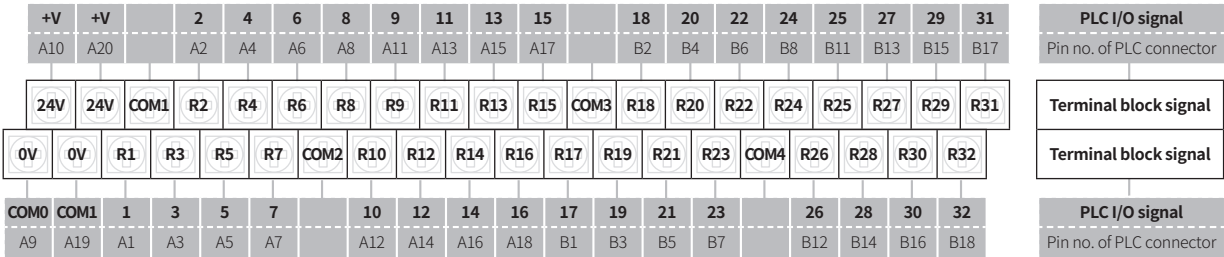
- Interface terminal block input



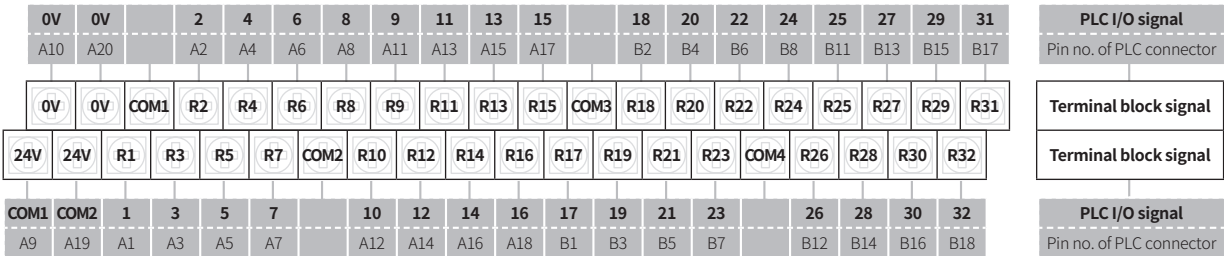
- Interface terminal block output



- Relay/SSR terminal block output (NPN)



- Relay/SSR terminal block output (PNP)



■ YOKOGAWA) FA-M3V Series - Sensor connector terminal block

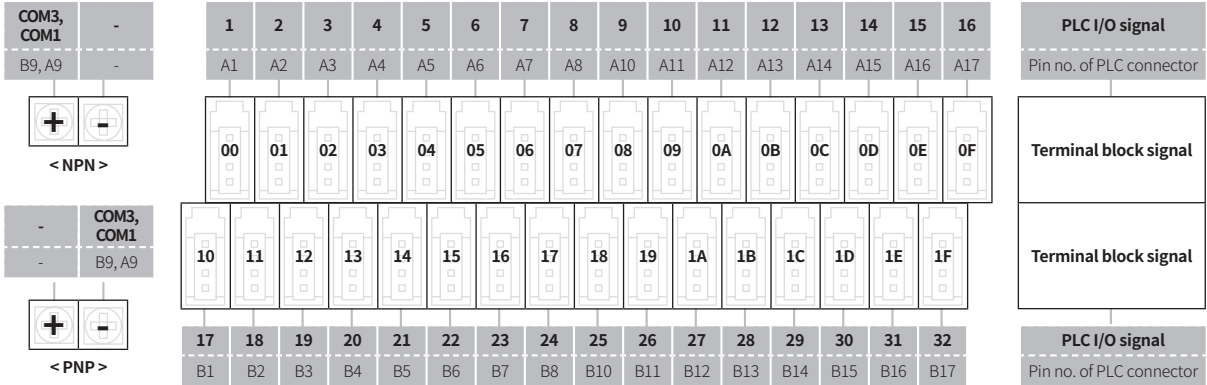
• Cable selection guide

Controller				Terminal block to connect		Proper cable	
Module name	I/O	No. of I/O	Logic	Type	Logic	Model name	Quantity
F3XD32-3F, F3XD32-4F, F3XD32-5F	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-W4T5R	1
			PNP	Sensor connector terminal block	PNP	CH40-FP□-W4T2R	1
F3XD64-3F, F3XD64-4F	Input	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-W4T5R	2
			PNP	Sensor connector terminal block	PNP	CH40-FP□-W4T2R	2
F3YD32-1H, F3YD32-1P	Output	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-I4M1R	1
F3YD64-1P	Output	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-I4M1R	2
F3YD32-1R	Output	32	PNP	Sensor connector terminal block	PNP	CH40-FP□-I4M4R	1
F3YD64-1R	Output	64	PNP	Sensor connector terminal block	PNP	CH40-FP□-I4M4R	2
			NPN	Sensor connector terminal block	NPN	CH40-FP□-W4T5R	1
	Output	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-I4M1R	1
F3WD64-3P, F3WD64-4P	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-W4T5R	1
	Output	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-I4M1R	1

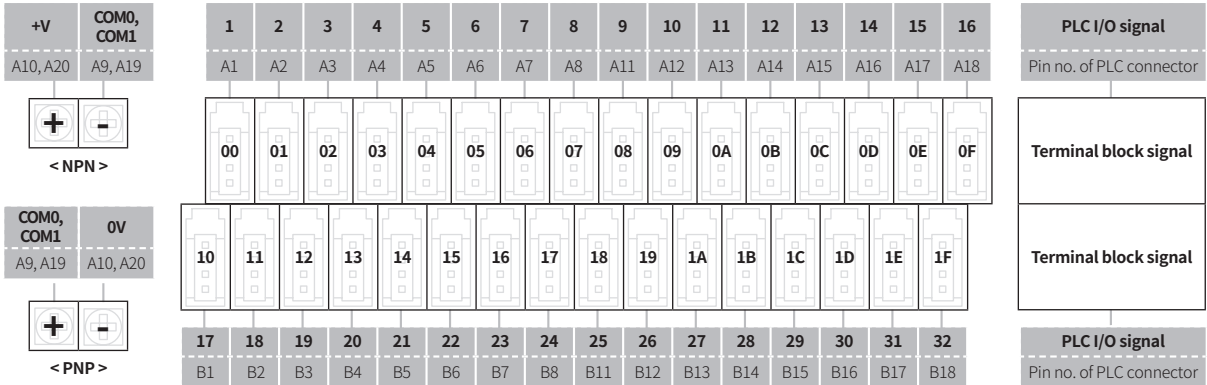
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

- Sensor connector terminal block input



- Sensor connector terminal block output



■ FUJI) MICREX-SX Series - Interface/Relay/SSR terminal block

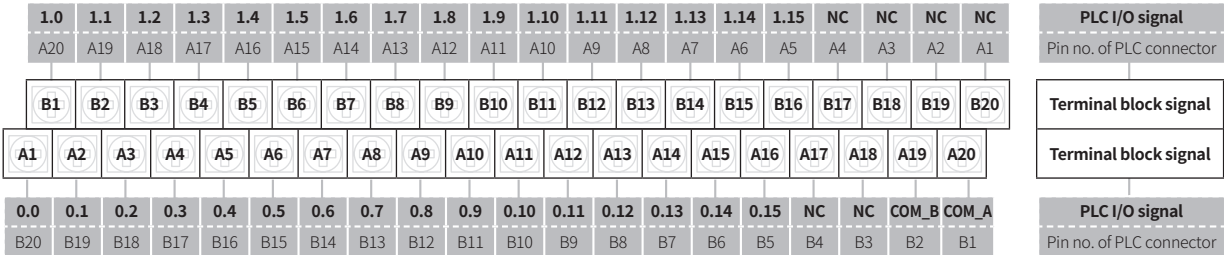
• Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
NP1X3206-W, NP1X3202-W	Input	32	-	Interface terminal block	CH40-FP□-4R	1
NP1Y32T09P1	Output	32	NPN	Interface terminal block	CH40-FP□-4R	1
	Output	32	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	1
NP1Y64T09P1	Output	64	NPN	Interface terminal block	CH40-FP□-4R	1
	Output	64	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	2
NP1Y32U09P1	Output	32	PNP	Interface terminal block	CH40-FP□-4R	1
	Output	32	PNP	Relay/SSR terminal block	CH40-FP□-E1T4R	1
NP1Y64U09P1	Output	64	PNP	Interface terminal block	CH40-FP□-4R	1
	Output	64	PNP	Relay/SSR terminal block	CH40-FP□-E1T4R	2
NP1W6406T	Input	32	-	Interface terminal block	CH40-FP□-4R	1
	Output	32	NPN	Interface terminal block	CH40-FP□-4R	1
	Output	32	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	1
NP1W6406U	Input	32	-	Interface terminal block	CH40-FP□-4R	1
	Output	32	PNP	Interface terminal block	CH40-FP□-4R	1
	Output	32	PNP	Relay/SSR terminal block	CH40-FP□-E1T4R	1

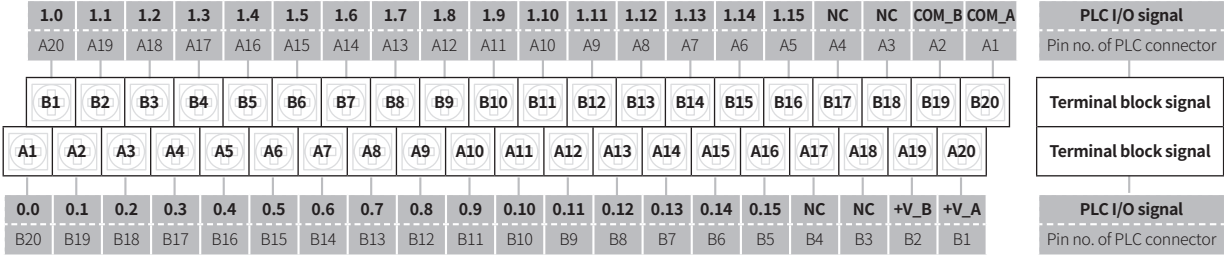
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

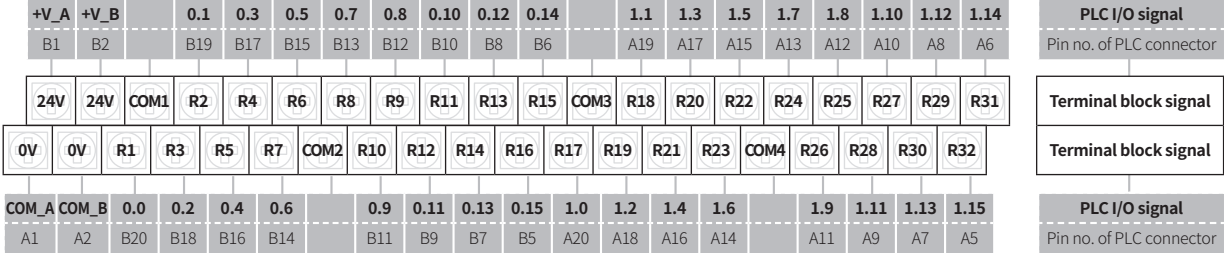
- Interface terminal block input



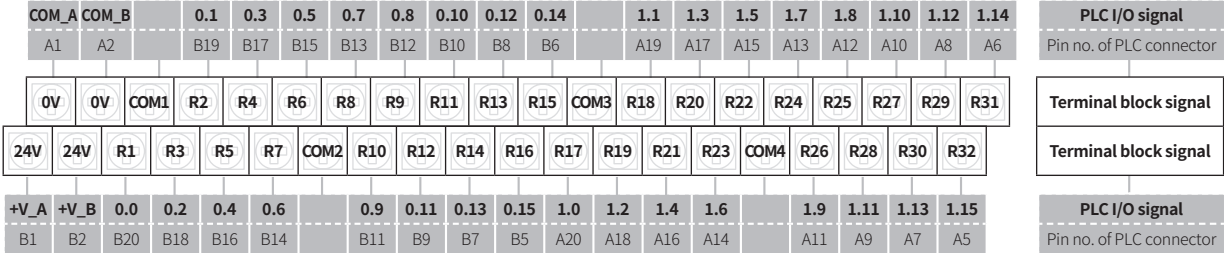
- Interface terminal block output



- Relay/SSR terminal block output (NPN)



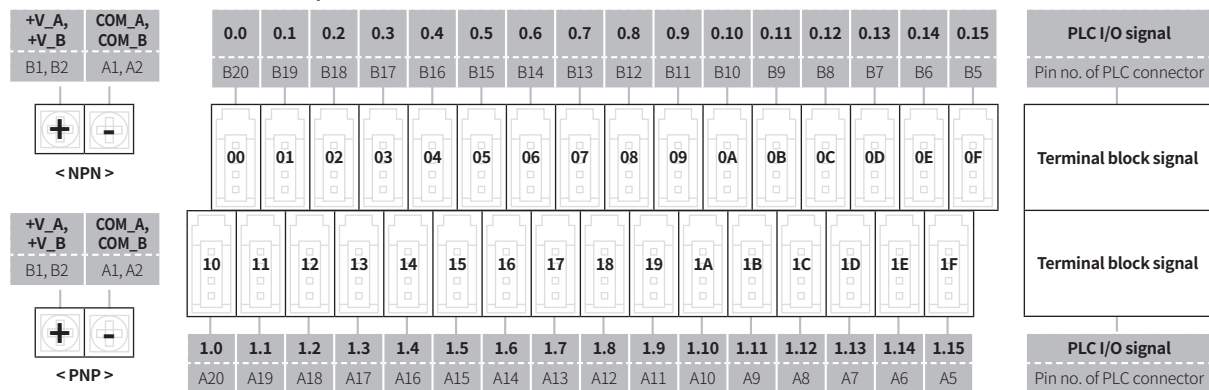
- Relay/SSR terminal block output (PNP)



- Cable selection guide

□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

- Sensor connector terminal block input



■ CIMON) CM3 Series - Interface/Relay/SSR terminal block

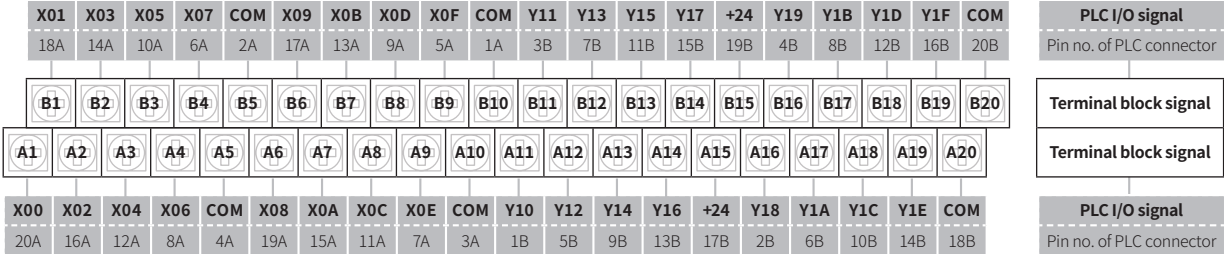
- Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
CM3-SP32MDT CM3-SP32EDT	Input/output	16	NPN	Interface terminal block	CH40-HP□-8X-FS	1
CM3-SP32EDO	Input	32	-	Interface terminal block	CH40-HP□-8L	1
CM3-SP32EOT	Output	32	NPN	Interface terminal block	CH40-HP□-8L	1
CM3-SP32EOT	Output	32	NPN	Relay/SSR terminal block	CH40-HP□-E1T4L	1

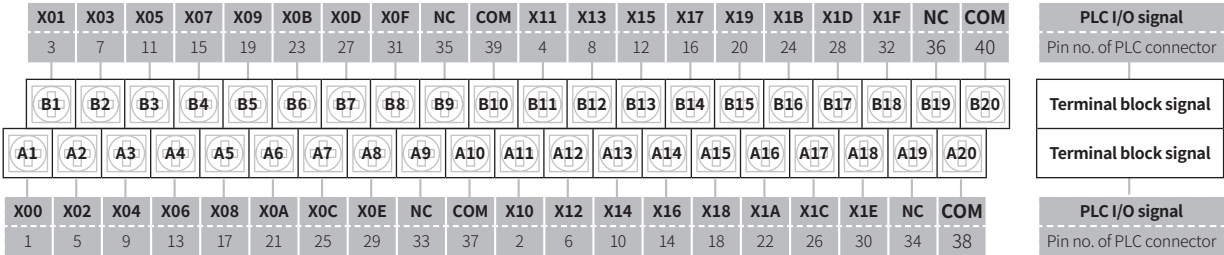
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

- Cable connection diagram

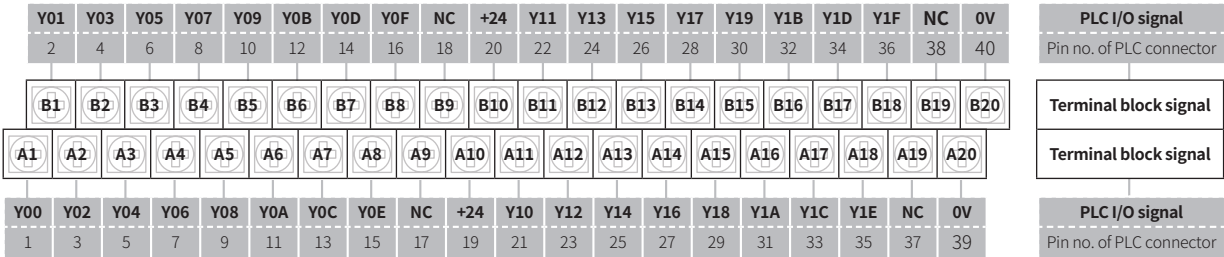
- Interface Terminal block input/output



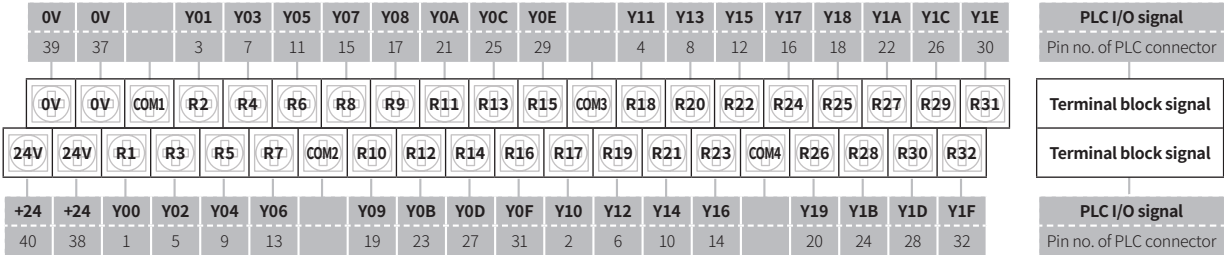
- Interface terminal block input



- Interface terminal block output



- Relay/SSR terminal block output (PNP)



■ CIMON) CM1 Series - Interface/Relay/SSR terminal block

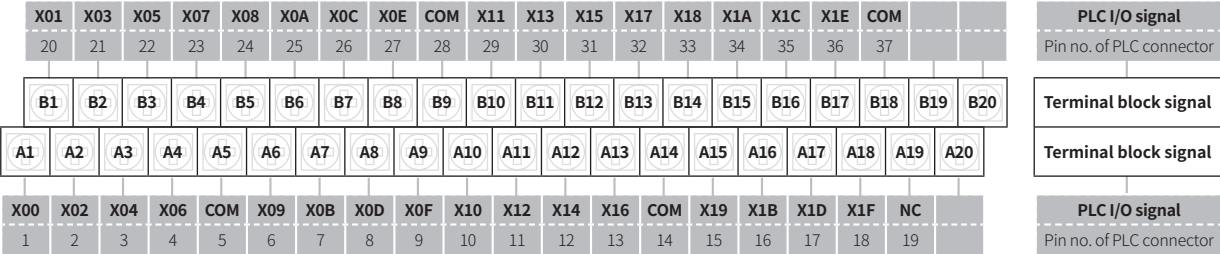
• Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
XD32E, XD32F	Input	32	-	Interface terminal block	CH37-DS□-4R	1
	Output	32	NPN	Interface terminal block	CH37-DS□-4R	1
YT32E	Output	32	NPN	Relay/SSR terminal block	CH37-DS□-F5T1R	1
YT32F	Output	32	PNP	Interface terminal block	CH37-DS□-4R	1
	Output	32	PNP	Relay/SSR terminal block	CH37-DS□-F5T4R	1

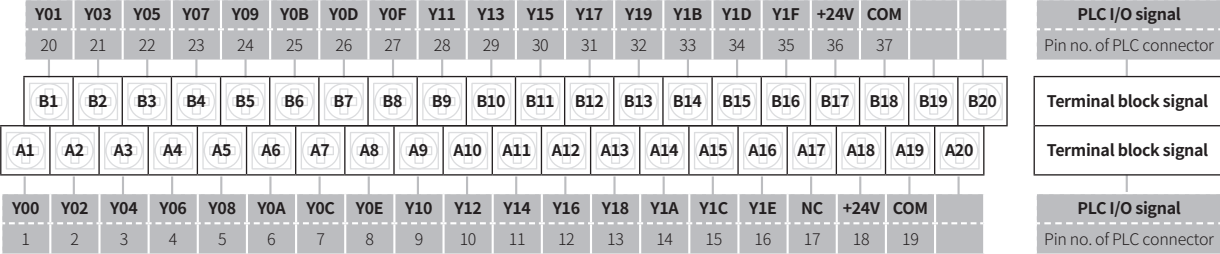
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

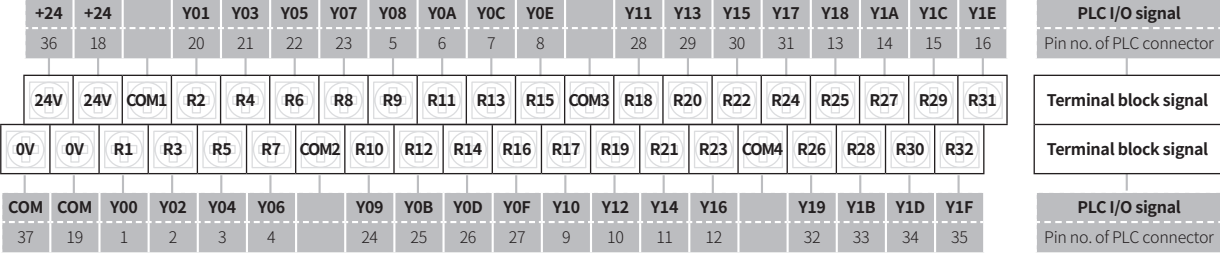
- Interface terminal block input



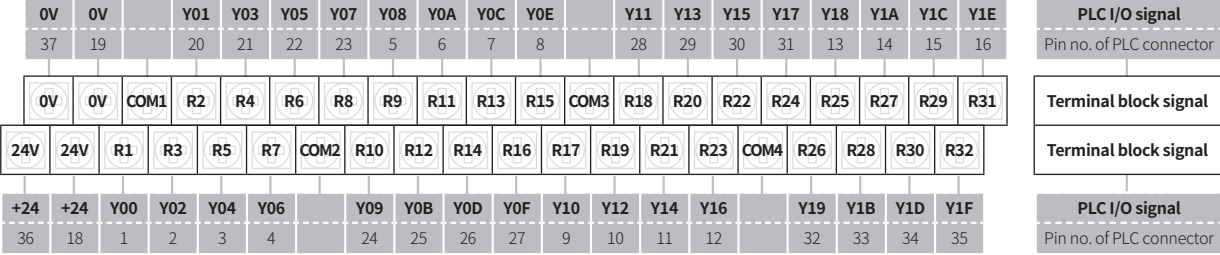
- Interface terminal block output



- Relay/SSR terminal block output (NPN)



- Relay/SSR terminal block output (PNP)



■ CIMON) CM1 Series - Interface/Relay/SSR terminal block

- Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
XD64E	Input	64	-	Interface terminal block	CH40-FP□-1R	2
YT64E	Output	64	NPN	Interface terminal block	CH40-FP□-1R	2
	Output	64	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	2

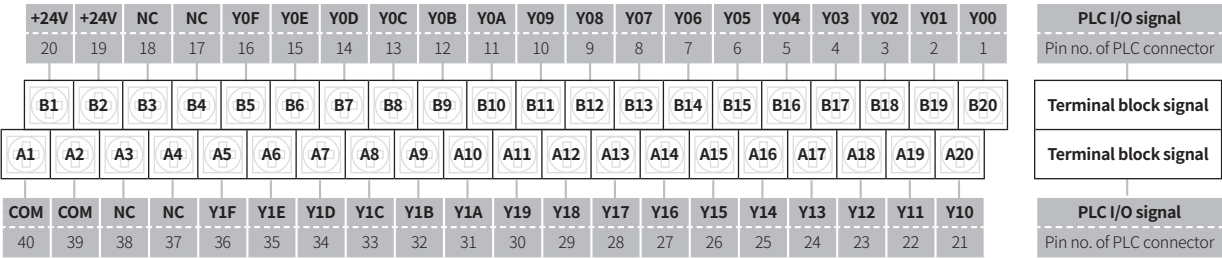
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

- Cable connection diagram

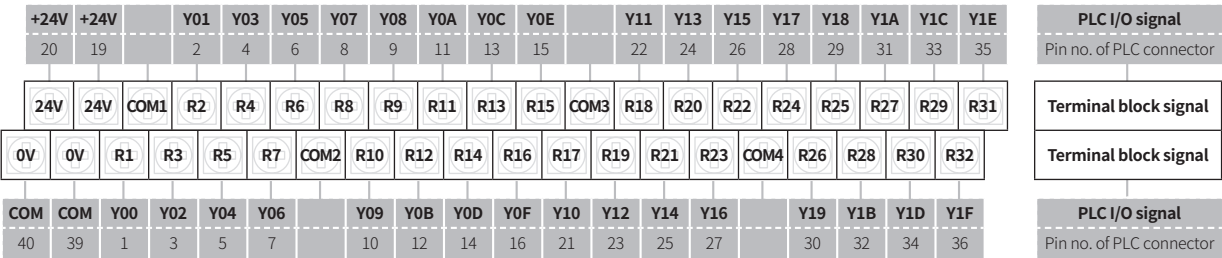
- Interface terminal block input



- Interface terminal block output



- Relay/SSR terminal block output (NPN)



■ CIMON) CM1 Series - Sensor connector terminal block

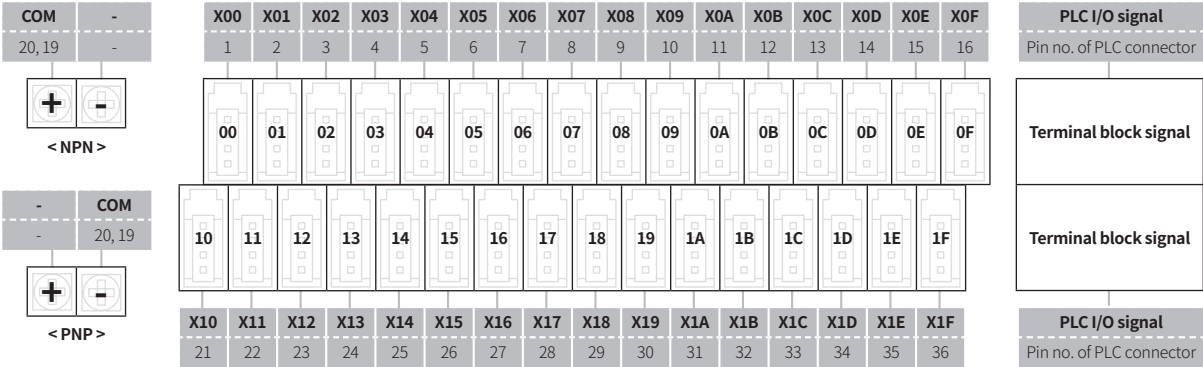
• Cable selection guide

Controller				Terminal block to connect		Proper cable	
Module name	I/O	No. of I/O	Logic	Type	Logic	Model name	Quantity
XD64E	Input	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	2
			PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	2
YT64E	Output	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T1R	2

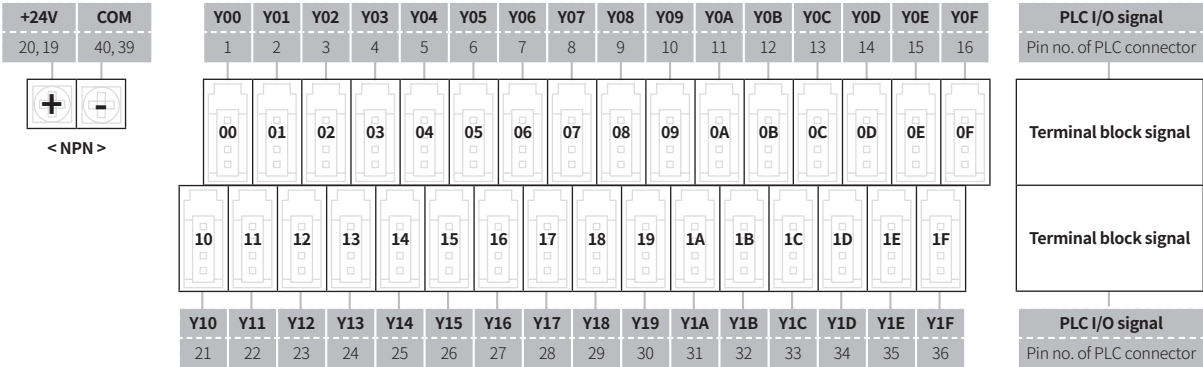
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

- Sensor connector terminal block input



- Sensor connector terminal block output



Autonics) LP Series - Interface/Relay/SSR terminal block

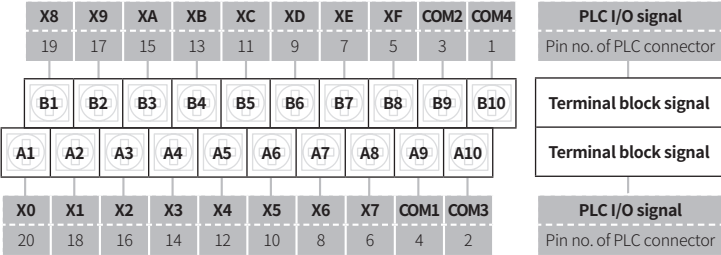
- Cable selection guide

Controller				Terminal block to connect	Proper cable	
Module name	I/O	No. of I/O	Logic		Model name	Quantity
LP-S044-S1D0(1)-C5R	Input	16	-	Interface terminal block	CH20-HP□-4R	1
	Output	16	NPN	Interface terminal block	CH20-HP□-4R	1
	Output	16	NPN	Relay/SSR terminal block	CH20-HP□-C1T1R	1
LP-S070-T9D6(7)-C5R	Input	16	-	Interface terminal block	CH20-HP□-4R	1
	Output	16	NPN	Interface terminal block	CH20-HP□-4R	1
	Output	16	NPN	Relay/SSR terminal block	CH20-HP□-C1T1R	1
LP-A070-T9D6(7)-C5R	Input	16	-	Interface terminal block	CH20-HP□-4R	1
	Output	16	NPN	Interface terminal block	CH20-HP□-4R	1
	Output	16	NPN	Relay/SSR terminal block	CH20-HP□-C1T1R	1
LP-A104-T9D8(9)-C6R	Input	32	-	Interface terminal block	CH20-HP□-4R	2
	Output	32	NPN	Interface terminal block	CH20-HP□-4R	2
	Output	32	NPN	Relay/SSR terminal block	CH20-HP□-C1T1R	2

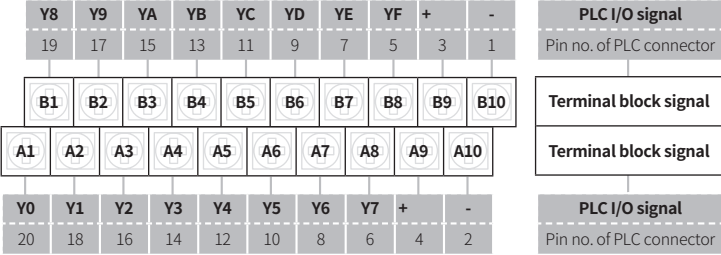
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

- Cable connection diagram

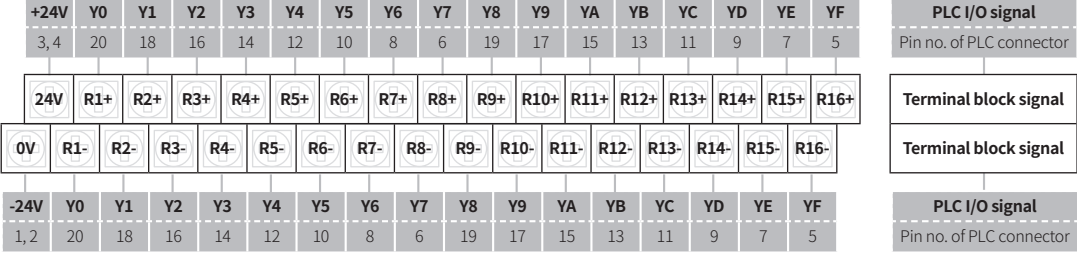
- Interface terminal block input



- Interface terminal block output



- Relay/SSR terminal block output (NPN)



■ Autonics) LP Series - Sensor connector terminal block

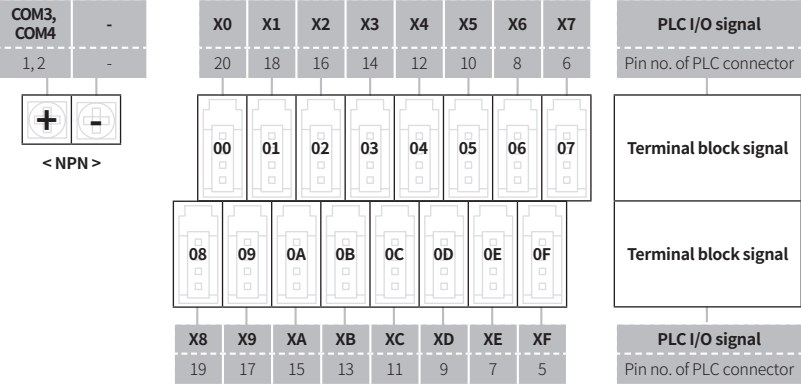
• Cable selection guide

Controller				Terminal block to connect		Proper cable	
Module name	I/O	No. of I/O	Logic	Type	Logic	Model name	Quantity
LP-S044-S1D0(1)-C5R	Input	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T5R	1
	Output	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T1R	1
LP-S070-T9D6(7)-C5R	Input	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T5R	1
	Output	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T1R	1
LP-A070-T9D6(7)-C5R	Input	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T5R	1
	Output	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T1R	1
LP-A104-T9D8(9)-C6R	Input	32	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T5R	2
	Output	32	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T1R	2

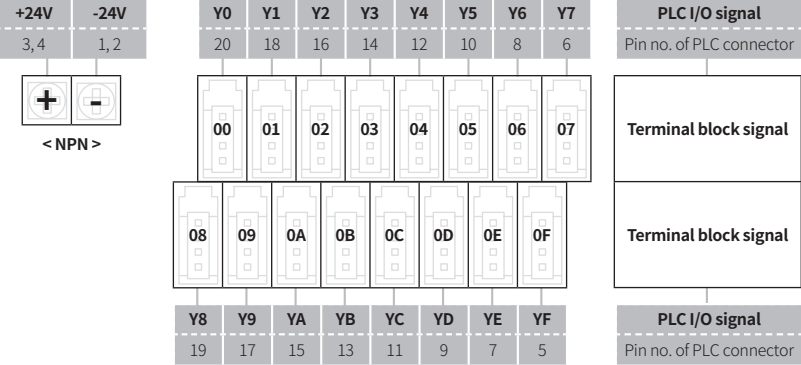
□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Cable connection diagram

- Sensor connector terminal block input



- Sensor connector terminal block output



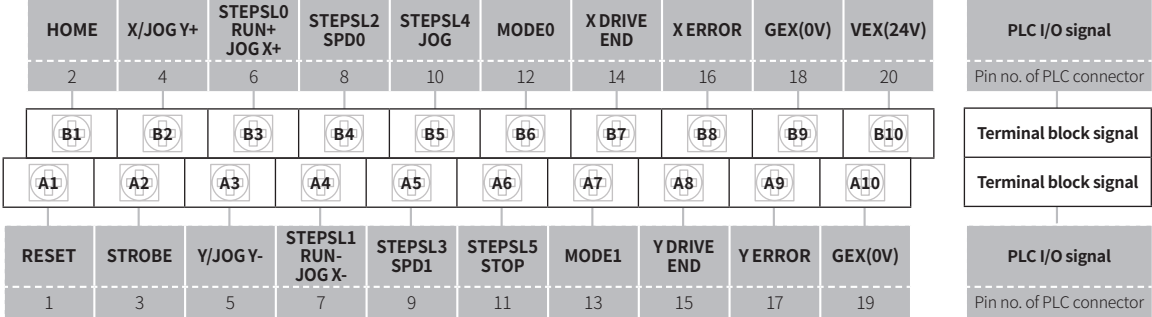
Autonics) PMC Series - Interface terminal block

Cable selection guide

Controller			Terminal block to connect	Proper cable	
Module name	No. of I/O	Logic		Model name	Quantity
PMC-1HS(PI/F side), PMC-2HS(PI/F side)	20	-	Interface terminal block	CH20-HP□-1R	1
PMC-2HSP(PI/F side), PMC-2HSN(PI/F side)	20	-	Interface terminal block	CH20-HP□-1R	1

□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

Cable connection diagram



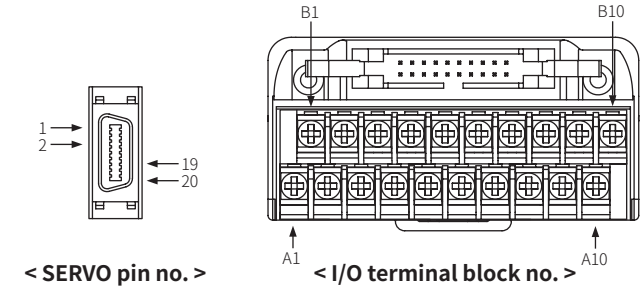
SERVO) 20-pin connector - Interface terminal block

• Cable selection guide

Controller			Connector	Terminal block to connect	Proper cable	
Manufacturer	Series	Module name			Model name	Quantity
Autonics	AiS-D	AiS-D-□-□	I/O	Interface terminal block	CH20-MP□-8R	1
	AiC-D-CL	AiC-D-□-□-CL	I/O	Interface terminal block	CH20-MP□-8R	1
	AiC-D-EC	AiC-D-□-□-EC	I/O	Interface terminal block	CH20-MP□-8R	1
	AiSA-D	AiSA-D-□-□	I/O	Interface terminal block	CH20-MP□-8R	1
MITSUBISHI	J4	MR-J4-B(-RJ)	CN3	Interface terminal block	CH20-MP□-8R	1
	J3	MR-J3-B(-□)	CN3	Interface terminal block	CH20-MP□-8R	1
		MR-J3-T	CN20	Interface terminal block	CH20-MP□-8R	1
		MR-J3-D01	CN20	Interface terminal block	CH20-MP□-8R	1

□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Pin number/terminal block number matching



< SERVO pin no. >		< I/O terminal block no. >	
SERVO pin no.		I/O terminal block no.	
1	↔	A1	
2	↔	B1	
3	↔	A2	
4	↔	B2	
5	↔	A3	
6	↔	B3	
7	↔	A4	
8	↔	B4	
9	↔	A5	
10	↔	B5	
11	↔	A6	
12	↔	B6	
13	↔	A7	
14	↔	B7	
15	↔	A8	
16	↔	B8	
17	↔	A9	
18	↔	B9	
19	↔	A10	
20	↔	B10	

When connecting SERVO dedicated cable and Interface terminal block, SERVO connector pin number and terminal block number are matched one by one. For detailed information about control signal of each SERVO connector pin, please refer to the manual from the manufacturer of the SERVO.

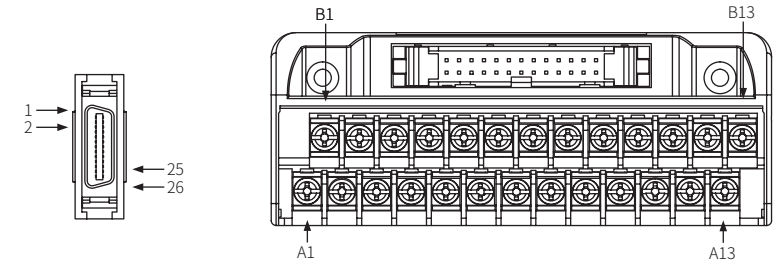
■ SERVO) 26-pin connector - Interface terminal block

• Cable selection guide

Controller			Connector	Terminal block to connect	Proper cable	
Manufacturer	Series	Module name			Model name	Quantity
MITSUBISHI	J4	MR-J4W2-B	CN3	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		MR-J4W2-0303B6	CN3	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		MR-J4W3-B	CN3	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
	J3	MR-J3W-B	CN3	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		MR-J3-T	CN6	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		MR-J3-D01	CN6	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
YASKAWA	Σ-7	SGD7S-□□□□10A	CN1	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		SGD7S-□□□□20A	CN1	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
Panasonic	A6	A6NE	X4	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		A6NF	X4	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		A6BE	X4	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		A6BF	X4	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
	A5	MINAS A5 II	X4	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1

□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Pin number/terminal block number matching



< SERVO pin no. >

< I/O terminal block no. >

SERVO pin no.		I/O terminal block no.
1	↔	A1
2	↔	B1
3	↔	A2
4	↔	B2
5	↔	A3
6	↔	B3
7	↔	A4
8	↔	B4
9	↔	A5
10	↔	B5
11	↔	A6
12	↔	B6
13	↔	A7
14	↔	B7
15	↔	A8
16	↔	B8
17	↔	A9
18	↔	B9
19	↔	A10
20	↔	B10
21	↔	A11
22	↔	B11
23	↔	A12
24	↔	B12
25	↔	A13
26	↔	B13

When connecting SERVO dedicated cable and Interface terminal block, SERVO connector pin number and terminal block number are matched one by one.
For detailed information about control signal of each SERVO connector pin, please refer to the manual from the manufacturer of the SERVO.

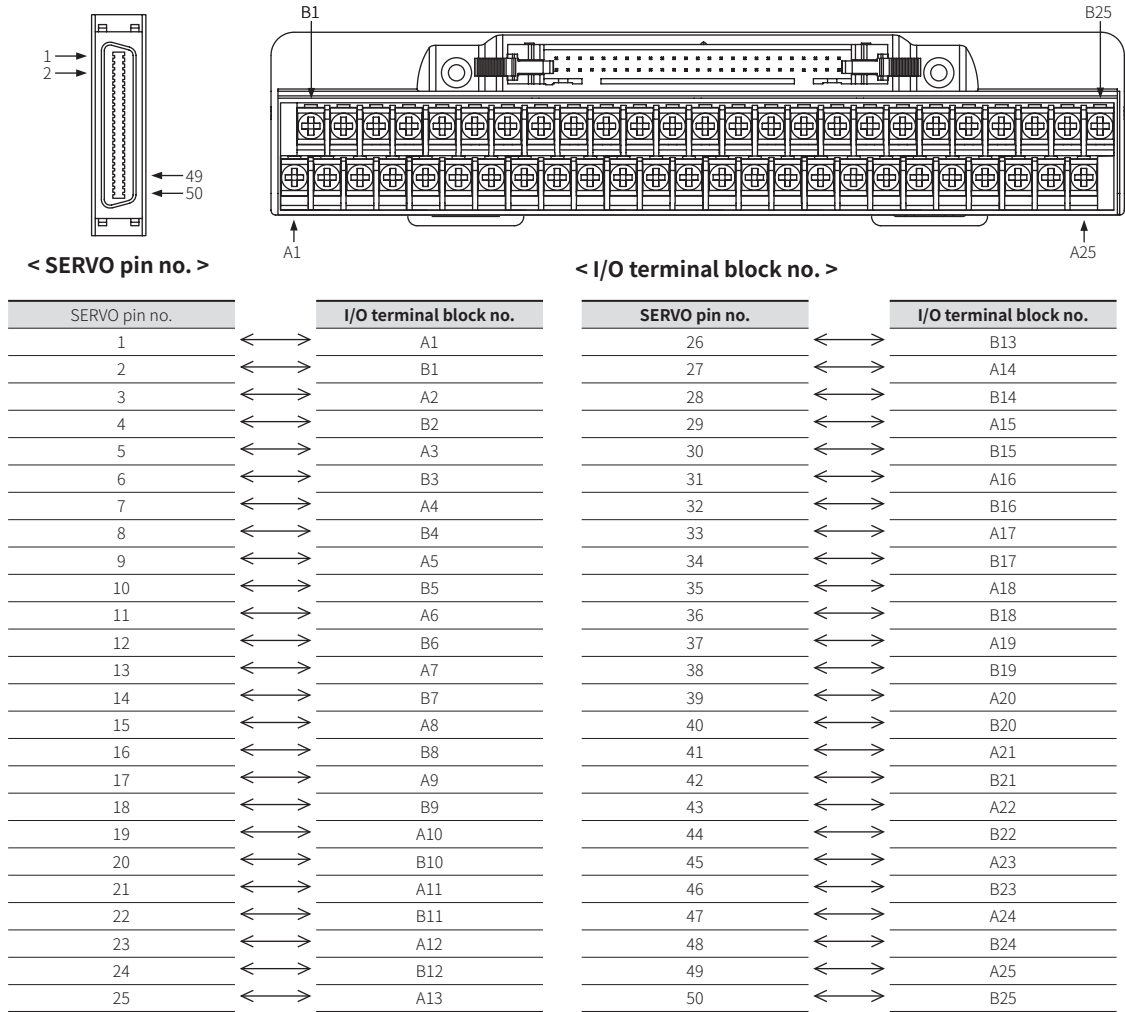
■ SERVO) 50-pin connector - Interface terminal block

• Cable selection guide

Controller			Connector	Terminal block to connect	Proper cable	
Manufacturer	Series	Module name			Model name	Quantity
Autonics	AiC-D	AiC-D-□□-□	I/O	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
	AiCA-D	AiCA-D-□□-□	I/O	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
MITSUBISHI	J4	MR-J4-□A(-RJ)	CN1	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
		MR-J4-03A6(-RJ)	CN1	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
	J3	MR-J3-A	CN1	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
		MR-J3-T	CM10	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
		MR-J3-D01	CN10	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
YASKAWA	Σ-7	SGD7S-□□□□□00A	CN1	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
	Σ-5	SGDV	CN1	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
Panasonic	A6	A6SE	X4	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
		A6SG	X4	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
		A6SF	X4	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
	A5	MINAS A5	X4	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
		MINAS A5 II	X4	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1

□ in proper cable model name stands for the cable length. Please refer to the cable length in 'Ordering Information'.

• Pin number/terminal block number matching



When connecting SERVO dedicated cable and Interface terminal block, SERVO connector pin number and terminal block number are matched one by one.
For detailed information about control signal of each SERVO connector pin, please refer to the manual from the manufacturer of the SERVO.

Cable Selection List

■ Interface/Relay/SSR terminal block

Controller						Terminal block to connect	Proper cable	
Manufacturer	Series	Module name	Input/Output	No. of I/O	Logic		Model name	Quantity
LS	XGT	XGI-D24A	Input	32		Interface terminal block	CH40-FP□-1R	1
		XGI-D24B	Input	32	-	Interface terminal block	CH40-FP□-1R	1
		XGI-D28A	Input	64	-	Interface terminal block	CH40-FP□-1R	2
		XGI-D28B	Input	64	-	Interface terminal block	CH40-FP□-1R	2
		XGQ-TR4A	Output	32	NPN	Interface terminal block	CH40-FP□-1R	1
			Output	32	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	1
		XGQ-TR4B	Output	32	PNP	Interface terminal block	CH40-FP□-1R	1
			Output	32	PNP	Relay/SSR terminal block	CH40-FP□-E1T4R	1
		XGQ-TR8A	Output	64	NPN	Interface terminal block	CH40-FP□-1R	2
			Output	64	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	2
		XGQ-TR8B	Output	64	PNP	Interface terminal block	CH40-FP□-1R	2
			Output	64	PNP	Relay/SSR terminal block	CH40-FP□-E1T4R	2
	XGB	XBM-DN32H	Input/Output	32	-	Interface terminal block	CH40-HP□-8L	1
			Input	8	-	Interface terminal block	CH20-HP□-1R	1
		XBM-DN16S	Output	8	NPN	Interface terminal block	CH20-HP□-1L	1
			Output	8	NPN	Relay/SSR terminal block	CH20-HP□-D1T1L	1
		XBM-DN32S	Input	16	-	Interface terminal block	CH20-HP□-1R	1
			Output	16	NPN	Interface terminal block	CH20-HP□-1L	1
			Output	16	NPN	Relay/SSR terminal block	CH20-HP□-D1T1L	1
			Output	16	NPN	Relay/SSR terminal block	CH20-HP□-D1T1L	1
		XBE-DN32A	Input/Output	32	-	Interface terminal block	CH40-HP□-8L	1
		XBE-DC32A	Input	32	-	Interface terminal block	CH40-HP□-8L	1
		XBE-TN32A	Output	32	NPN	Interface terminal block	CH40-HP□-8L	1
			Output	32	NPN	Relay/SSR terminal block	CH40-HP□-E1T1L	1
		XBE-TP32A	Output	32	PNP	Interface terminal block	CH40-HP□-8L	1
			Output	32	PNP	Relay/SSR terminal block	CH40-HP□-E1T4L	1
MITSUBISHI	iQ-F	FX5-C16EX/D	Input	16	NPN	Interface terminal block	CH20-HP□-4R	1
		FX5-C16EX/DS	Input	16	-	Interface terminal block	CH20-HP□-4R	1
		FX5-C32EX/D	Input	32	NPN	Interface terminal block	CH40-HP□-8R-FS	1
		FX5-C32EX/DS	Input	32	-	Interface terminal block	CH40-HP□-8R-FS	1
		FX5-C16EYT/D	Output	16	NPN	Interface terminal block	CH20-HP□-4R	1
		FX5-C16EYT/DSS	Output	16	PNP	Interface terminal block	CH20-HP□-4R	1
		FX5-C32EYT/D	Output	32	NPN	Interface terminal block	CH40-HP□-8R-FS	1
		FX5-C32EYT/DSS	Output	32	PNP	Interface terminal block	CH40-HP□-8R-FS	1
	iQ-R	RX41C4, RX41C6HS	Input	32	-	Interface terminal block	CH40-FP□-1R	1
			Output	32	NPN	Interface terminal block	CH40-FP□-1R	1
		RY41NT2P, RY41NT2H	Output	32	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	1
			Output	32	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	1
		RY41PT1P, RY41PT2H	Output	32	PNP	Interface terminal block	CH40-FP□-1R	1
			Output	32	PNP	Relay/SSR terminal block	CH40-FP□-E1T4R	1
		RX42C4	Input	64	-	Interface terminal block	CH40-FP□-1R	2
			Output	64	NPN	Interface terminal block	CH40-FP□-1R	2
		RY42NT2P	Output	64	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	2
			Output	64	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	2
		RY42PT1P	Output	64	PNP	Interface terminal block	CH40-FP□-1R	2
			Output	64	PNP	Relay/SSR terminal block	CH40-FP□-E1T4R	2
		RH42C4NT2P	Input	32	-	Interface terminal block	CH40-FP□-1R	1
			Output	32	NPN	Interface terminal block	CH40-FP□-1R	1
			Output	32	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	1
			Output	32	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	1
	QnU	QX41, QX42-S1/S2	Input	32	-	Interface terminal block	CH40-FP□-1R	1
			Input	32	-	Interface terminal block	CH40-FP□-1R	1
		QH42P, QX41Y41P	Output	32	NPN	Interface terminal block	CH40-FP□-1R	1
			Output	32	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	1
		QX42, QX42-S1	Input	64	-	Interface terminal block	CH40-FP□-1R	2
			Input	64	-	Interface terminal block	CH40-FP□-1R	2
		QY41P	Output	32	NPN	Interface terminal block	CH40-FP□-1R	1
			Output	32	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	1
		QY42P	Output	64	NPN	Interface terminal block	CH40-FP□-1R	2
			Output	64	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	2
		QY82P	Output	64	PNP	Interface terminal block	CH40-FP□-1R	2
			Output	64	PNP	Relay/SSR terminal block	CH40-FP□-E1T4R	2
		QX81, QX81-S2	Input	32	-	Interface terminal block	CH37-DP□-3R	1
			Output	32	PNP	Interface terminal block	CH37-DP□-3R	1
		QY81P	Output	32	PNP	Relay/SSR terminal block	CH37-DP□-B6T1R	1

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Controller						Terminal block to connect	Proper cable	
Manufacturer	Series	Module name	Input/Output	No. of I/O	Logic		Model name	Quantity
OMRON	CJ/NJ	CJ1W-ID232, CJ1W-ID233	Input	32	-	Interface terminal block	CH40-HP□-4L	1
		CJ1W-ID262	Input1	32	-	Interface terminal block	CH40-HP□-1R	1
			Input2	32	-	Interface terminal block	CH40-HP□-4L	1
		CJ1W-OD233, CJ1W-OD234	Output	32	NPN	Interface terminal block	CH40-HP□-4L	1
			Output	32	NPN	Relay/SSR terminal block	CH40-HP□-1CM1L	1
		CJ1W-OD263	Output1	32	NPN	Interface terminal block	CH40-HP□-1R	1
			Output2	32	NPN	Interface terminal block	CH40-HP□-4L	1
			Output1	32	NPN	Relay/SSR terminal block	CH40-HP□-L9M4R	1
			Output2	32	NPN	Relay/SSR terminal block	CH40-HP□-1CM1L	1
		CJ1W-OD232	Output	32	PNP	Interface terminal block	CH40-HP□-4L	1
			Output	32	PNP	Relay/SSR terminal block	CH40-HP□-1CM4L	1
		CJ1W-OD262	Output1	32	PNP	Interface terminal block	CH40-HP□-1R	1
			Output2	32	PNP	Interface terminal block	CH40-HP□-4L	1
			Output1	32	PNP	Relay/SSR terminal block	CH40-HP□-L9M1R	1
			Output2	32	PNP	Relay/SSR terminal block	CH40-HP□-1CM4L	1
		CJ1W-MD263	Input	32	-	Interface terminal block	CH40-HP□-4L	1
			Output	32	NPN	Interface terminal block	CH40-HP□-1R	1
			Output	32	NPN	Relay/SSR terminal block	CH40-HP□-L9M1R	1
		CJ1W-MD233	Input	16	-	Interface terminal block	CH20-HP□-4L	1
			Output	16	NPN	Interface terminal block	CH20-HP□-1R	1
			Output	16	NPN	Relay/SSR terminal block	CH20-HP□-C1T4R	1
		CJ1W-MD232	Input	16	-	Interface terminal block	CH20-HP□-4L	1
			Output	16	PNP	Interface terminal block	CH20-HP□-1R	1
			Output	16	PNP	Relay/SSR terminal block	CH20-HP□-C1T4R	1
		CJ1W-ID231	Input	32	-	Interface terminal block	CH40-FP□-4L	1
		CJ1W-ID261	Input1	32	-	Interface terminal block	CH40-FP□-1R	1
			Input2	32	-	Interface terminal block	CH40-FP□-4L	1
		CJ1W-OD231	Output	32	NPN	Interface terminal block	CH40-FP□-4L	1
			Output	32	NPN	Relay/SSR terminal block	CH40-FP□-L1T4L	1
		CJ1W-OD261	Output1	32	NPN	Interface terminal block	CH40-FP□-1R	1
			Output2	32	NPN	Interface terminal block	CH40-FP□-4L	1
			Output1	32	NPN	Relay/SSR terminal block	CH40-FP□-1T1R	1
			Output2	32	NPN	Relay/SSR terminal block	CH40-FP□-L1T4L	1
		CJ1W-MD261	Input	32	-	Interface terminal block	CH40-FP□-4L	1
			Output	32	NPN	Interface terminal block	CH40-FP□-1R	1
			Output	32	NPN	Relay/SSR terminal block	CH40-FP□-1T1R	1
	NX	NX-ID6142-5	Input	32	-	Interface terminal block	CH40-HP□-4L	1
		NX-OD6121-5	Output	32	NPN	Interface terminal block	CH40-HP□-4L	1
			Output	32	NPN	Relay/SSR terminal block	CH40-HP□-1CM1L	1
		NX-OD6256-5	Output	32	PNP	Interface terminal block	CH40-HP□-4L	1
			Output	32	PNP	Relay/SSR terminal block	CH40-HP□-1CM4L	1
		NX-ID5142-5	Input	16	-	Interface terminal block	CH20-HP□-4L	1
		NX-OD5121-5	Output	16	NPN	Interface terminal block	CH20-HP□-4L	1
			Output	16	NPN	Relay/SSR terminal block	CH20-HP□-A4T1L	1
		NX-OD5256-5	Output	16	PNP	Interface terminal block	CH20-HP□-4L	1
			Output	16	PNP	Relay/SSR terminal block	CH20-HP□-A4T4L	1
		NX-MD6121-5	Input	16	-	Interface terminal block	CH20-HP□-4L	1
			Output	16	NPN	Interface terminal block	CH20-HP□-1R	1
			Output	16	NPN	Relay/SSR terminal block	CH20-HP□-C1T4R	1
		NX-MD6256-5	Input	16	-	Interface terminal block	CH20-HP□-4L	1
			Output	16	PNP	Interface terminal block	CH20-HP□-1R	1
			Output	16	PNP	Relay/SSR terminal block	CH20-HP□-C1T4R	1
		NX-ID6142-6	Input	32	-	Interface terminal block	CH40-FP□-4L	1
		NX-OD6121-6	Output	32	NPN	Interface terminal block	CH40-FP□-4L	1
			Output	32	NPN	Relay/SSR terminal block	CH40-FP□-L1T4L	1
RS Automation	X8	X8-XU32, X8-XU32SA	Input	32	-	Interface terminal block	CH40-HP□-4L	1
		X8-YN32, X8-YN32S	Output	32	NPN	Interface terminal block	CH40-HP□-4L	1
			Output	32	NPN	Relay/SSR terminal block	CH40-HP□-F5T1L	1

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Controller						Terminal block to connect	Proper cable	
Manufacturer	Series	Module name	Input/Output	No. of I/O	Logic		Model name	Quantity
YOKOGAWA	FA-M3V	F3XD32-3F, F3XD32-4F, F3XD32-5F	Input	32	-	Interface terminal block	CH40-FP□-1R	1
		F3XD64-3F, F3XD64-4F	Input	64	-	Interface terminal block	CH40-FP□-1R	2
		F3YD32-1H, F3YD32-1P	Output	32	NPN	Interface terminal block	CH40-FP□-1R	1
		F3YD32-1H, F3YD32-1P	Output	32	NPN	Relay/SSR terminal block	CH40-FP□-H4M1R	1
		F3YD64-1P	Output	64	NPN	Interface terminal block	CH40-FP□-1R	2
			Output	64	NPN	Relay/SSR terminal block	CH40-FP□-H4M1R	2
		F3YD32-1R	Output	32	PNP	Interface terminal block	CH40-FP□-1R	1
			Output	32	PNP	Relay/SSR terminal block	CH40-FP□-H4M1R	1
		F3YD64-1R	Output	64	PNP	Interface terminal block	CH40-FP□-1R	2
			Output	64	PNP	Relay/SSR terminal block	CH40-FP□-H4M1R	2
		F3WD64-3P, F3WD64-4P	Input	32	-	Interface terminal block	CH40-FP□-1R	1
			Output	32	NPN	Interface terminal block	CH40-FP□-1R	1
			Output	32	NPN	Relay/SSR terminal block	CH40-FP□-H4M1R	1
FUJI	MICREX-SX	NP1X3206-W, NP1X3202-W	Input	32	-	Interface terminal block	CH40-FP□-4R	1
		NP1Y32T09P1	Output	32	NPN	Interface terminal block	CH40-FP□-4R	1
			Output	32	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	1
		NP1Y64T09P1	Output	64	NPN	Interface terminal block	CH40-FP□-4R	1
			Output	64	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	2
		NP1Y32U09P1	Output	32	PNP	Interface terminal block	CH40-FP□-4R	1
			Output	32	PNP	Relay/SSR terminal block	CH40-FP□-E1T4R	1
		NP1Y64U09P1	Output	64	PNP	Interface terminal block	CH40-FP□-4R	1
			Output	64	PNP	Relay/SSR terminal block	CH40-FP□-E1T4R	2
		NP1W6406T	Input	32	-	Interface terminal block	CH40-FP□-4R	1
			Output	32	NPN	Interface terminal block	CH40-FP□-4R	1
			Output	32	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	1
CIMON	CM3	CM3-SP32MDT CM3-SP32EDT	Input/output	16	NPN	Interface terminal block	CH40-HP□-8X-FS	1
		CM3-SP32EDO	Input	32	-	Interface terminal block	CH40-HP□-8L	1
		CM3-SP32EOT	Output	32	NPN	Interface terminal block	CH40-HP□-8L	1
		CM3-SP32EOT	Output	32	NPN	Relay/SSR terminal block	CH40-HP□-E1T4L	1
	CM1	XD32E, XD32F	Input	32	-	Interface terminal block	CH37-DS□-4R	1
		YT32E	Output	32	NPN	Interface terminal block	CH37-DS□-4R	1
			Output	32	NPN	Relay/SSR terminal block	CH37-DS□-F5T1R	1
		YT32F	Output	32	PNP	Interface terminal block	CH37-DS□-4R	1
			Output	32	PNP	Relay/SSR terminal block	CH37-DS□-F5T4R	1
		XD64E	Input	64	-	Interface terminal block	CH40-FP□-1R	2
		YT64E	Output	64	NPN	Interface terminal block	CH40-FP□-1R	2
			Output	64	NPN	Relay/SSR terminal block	CH40-FP□-E1T1R	2
Autonics	LP	LP-S044-S1D0(1)-C5R	Input	16	-	Interface terminal block	CH20-HP□-4R	1
			Output	16	NPN	Interface terminal block	CH20-HP□-4R	1
			Output	16	NPN	Relay/SSR terminal block	CH20-HP□-C1T1R	1
		LP-S070-T9D6(7)-C5R	Input	16	-	Interface terminal block	CH20-HP□-4R	1
			Output	16	NPN	Interface terminal block	CH20-HP□-4R	1
			Output	16	NPN	Relay/SSR terminal block	CH20-HP□-C1T1R	1
		LP-A070-T9D6(7)-C5R	Input	16	-	Interface terminal block	CH20-HP□-4R	1
			Output	16	NPN	Interface terminal block	CH20-HP□-4R	1
			Output	16	NPN	Relay/SSR terminal block	CH20-HP□-C1T1R	1
		LP-A104-T9D8(9)-C6R	Input	32	-	Interface terminal block	CH20-HP□-4R	2
			Output	32	NPN	Interface terminal block	CH20-HP□-4R	2
			Output	32	NPN	Relay/SSR terminal block	CH20-HP□-C1T1R	2
	PMC	PMC-1HS(PI/F side), PMC-2HS(PI/F side)	Input/Output	20	-	Interface terminal block	CH20-HP□-1R	1
		PMC-2HSP(PI/F side), PMC-2HSN(PI/F side)	Input/Output	20	-	Interface terminal block	CH20-HP□-1R	1

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■ Sensor connector terminal block

Controller						Terminal block to connect		Proper cable	
Manufacturer	Series	Module name	Input/Output	No. of I/O	Logic	Type	Logic	Model name	Quantity
LS	XGT	XGI-D24A	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	1
			Input	32	PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T2R	1
		XGI-D24B	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	1
			Input	32	PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T2R	1
		XGI-D28A	Input	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	2
			Input	64	PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T2R	2
		XGI-D28B	Input	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	2
			Input	64	PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T2R	2
		XGQ-TR4A	Output	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T1R	1
		XGQ-TR4B	Output	32	PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T1R	1
	XGB	XGQ-TR8A	Output	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T1R	2
		XGQ-TR8B	Output	64	PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T1R	2
		XBM-DN32H	Input/Output	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-D1T1L	1
		XBE-DN32A	Input/Output	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-D1T1L	1
			Input	8	NPN	Sensor connector terminal block	NPN	CH20-HP□-D1T3R	1
			Input	8	PNP	Sensor connector terminal block	PNP	CH20-HP□-D1T6R	1
			Output	8	NPN	Sensor connector terminal block	NPN	CH20-HP□-D1T1L	1
		XBM-DN32S	Input	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-D1T3R	1
			Input	16	PNP	Sensor connector terminal block	PNP	CH20-HP□-D1T6R	1
			Output	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-D1T1L	1
		XBE-DC32A	Input	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-E1T3L	1
			Input	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-E1T2L	1
MITSUBISHI	iQ-R	RX41C4, RX41C6HS	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	1
					PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	1
		RY41NT2P, RY41NT2H	Output	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T1R	1
		RY41PT1P, RY41PT2H	Output	32	PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T1R	1
		RX42C4	Input	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	2
					PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	2
		RY42NT2P	Output	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T1R	2
		RY42PT1P	Output	64	PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T1R	2
					NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	1
					PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	1
	QnU	QX41, QX42-S1/S2	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	1
					PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	1
		QH42P, QX41Y41P	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	1
			Output	32	PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	1
		QX42, QX42-S1	Input	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	2
					PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	2
		QX82	Input	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	2
					PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	2
		QY41P	Output	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T1R	1
		QY42P	Output	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T1R	2
		QY82P	Output	64	PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T1R	2
		QX81, QX81-S2	Input	32	PNP	Sensor connector terminal block	PNP	CH37-DP□-B6T2R	1
		QY81P	Output	32	PNP	Sensor connector terminal block	PNP	CH37-DP□-B6T1R	1

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Controller						Terminal block to connect		Proper cable			
Manufacturer	Series	Module name	Input/Output	No. of I/O	Logic	Type	Logic	Model name	Quantity		
OMRON	CJ/NJ	CJ1W-ID232, CJ1W-ID233	Input	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-HCM3L	1		
			Input	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-HCM2L	1		
		CJ1W-ID262	Input1	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-L9M3R	1		
			Input1	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-L9M6R	1		
			Input2	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-HCM3L	1		
			Input2	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-HCM2L	1		
		CJ1W-OD233, CJ1W-OD234	Output	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-HCM1L	1		
			CJ1W-OD263	Output1	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-L9M4R	1	
		Output2		32	NPN	Sensor connector terminal block	NPN	CH40-HP□-HCM1L	1		
		CJ1W-OD232	Output	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-HCM1L	1		
		CJ1W-OD262	Output1	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-L9M4R	1		
			Output2	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-HCM1L	1		
		CJ1W-MD263	Input	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-HCM3L	1		
			Input	32	PNP	Sensor connector terminal block	PNP	CH40-HP□-HCM2L	1		
			Output	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-L9M4R	1		
		CJ1W-MD233	Input	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-A4T5L	1		
					PNP	Sensor connector terminal block	PNP	CH20-HP□-A4T2L	1		
			Output	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T4R	1		
		CJ1W-MD232	Input	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-A4T5L	1		
					PNP	Sensor connector terminal block	PNP	CH20-HP□-A4T2L	1		
		Output	16	PNP	Sensor connector terminal block	PNP	CH20-HP□-C1T1R	1			
				CJ1W-ID231	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-X1T3L	1
		PNP	Sensor connector terminal block				PNP	CH40-FP□-X1T6L	1		
		CJ1W-ID261	Input1	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-W4T5R	1		
					PNP	Sensor connector terminal block	PNP	CH40-FP□-W4T2R	1		
			Input2	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-X1T3L	1		
					PNP	Sensor connector terminal block	PNP	CH40-FP□-X1T6L	1		
		CJ1W-OD231	Output	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-L1T4L	1		
		CJ1W-OD261	Output1	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-H4T1R	1		
			Output2	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-L1T4L	1		
		CJ1W-MD261	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-X1T3L	1		
					PNP	Sensor connector terminal block	PNP	CH40-FP□-X1T6L	1		
			Output	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-H4T1R	1		
					PNP	Sensor connector terminal block	PNP	CH40-FP□-X1T6L	1		
		NX	NX	NX-ID6142-5	Input	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-HCM5L	1
							PNP	Sensor connector terminal block	PNP	CH40-HP□-HCM2L	1
				NX-OD6121-5	Output	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-HCM1L	1
							PNP	Sensor connector terminal block	PNP	CH40-HP□-HCM1L	1
				NX-OD6256-5	Output	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-HCM1L	1
							PNP	Sensor connector terminal block	PNP	CH20-HP□-A4T5L	1
				NX-ID5142-5	Input	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-A4T5L	1
							PNP	Sensor connector terminal block	PNP	CH20-HP□-A4T2L	1
				NX-OD5121-5	Output	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-A4T1L	1
							PNP	Sensor connector terminal block	PNP	CH20-HP□-A4T1L	1
				NX-OD5256-5	Output	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-A4T1L	1
							PNP	Sensor connector terminal block	PNP	CH20-HP□-A4T1L	1
NX-MD6121-5	Input			16	NPN	Sensor connector terminal block	NPN	CH20-HP□-A4T5L	1		
					PNP	Sensor connector terminal block	PNP	CH20-HP□-A4T2L	1		
Output	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T4R	1					
		NX-MD6256-5	Input	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-A4T5L	1		
PNP	Sensor connector terminal block				PNP	CH20-HP□-A4T2L	1				
Output	16	PNP	Sensor connector terminal block	PNP	CH20-HP□-C1T1R	1					
		RS Automation	X8	X8-XU32, X8-XU32SA	Input	32	NPN	Sensor connector terminal block	NPN	CH40-HP□-F5T3L	1
PNP	Sensor connector terminal block						PNP	CH40-HP□-F5T2L	1		
X8-YN32, X8-YN32S	Output			32	NPN	Sensor connector terminal block	NPN	CH40-HP□-F5T1L	1		
YOKOGAWA	FA-M3V			F3XD32-3F, F3XD32-4F, F3XD32-5F	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-W4T5R	1
		PNP	Sensor connector terminal block				PNP	CH40-FP□-W4T2R	1		
		F3XD64-3F, F3XD64-4F	Input	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-W4T5R	2		
					PNP	Sensor connector terminal block	PNP	CH40-FP□-W4T2R	2		
		F3YD32-1H, F3YD32-1P	Output	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-H4M1R	1		
		F3YD64-1P	Output	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-H4M1R	2		
		F3YD32-1R	Output	32	PNP	Sensor connector terminal block	PNP	CH40-FP□-H4M4R	1		
					PNP	Sensor connector terminal block	PNP	CH40-FP□-H4M4R	2		
		F3YD64-1R	Output	64	PNP	Sensor connector terminal block	PNP	CH40-FP□-H4M4R	2		
					F3WD64-3P, F3WD64-4P	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-W4T5R
PNP	Sensor connector terminal block	PNP	CH40-FP□-W4T2R	1							
Output	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-H4M1R	1					

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Controller						Terminal block to connect		Proper cable	
Manufacturer	Series	Module name	Input/Output	No. of I/O	Logic	Type	Logic	Model name	Quantity
FUJI	MICREX-SX	NP1X3206-W, NP1X3202-W	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	1
					PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	1
		NP1Y32T09P1	Output	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T1R	1
		NP1Y64T09P1	Output	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T1R	2
		NP1Y32U09P1	Output	32	PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T1R	1
		NP1Y64U09P1	Output	64	PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T1R	2
					NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	1
		NP1W6406T	Input	32	PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	1
					NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T1R	1
		NP1W6406U	Input	32	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	1
					PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	1
			Output	32	PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T1R	1
CIMON	CM1	XD64E	Input	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T3R	2
					PNP	Sensor connector terminal block	PNP	CH40-FP□-E1T6R	2
		YT64E	Output	64	NPN	Sensor connector terminal block	NPN	CH40-FP□-E1T1R	2
Autonics	LP	LP-S044-S1D0(1)-C5R	Input	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T5R	1
			Output	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T1R	1
		LP-S070-T9D6(7)-C5R	Input	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T5R	1
			Output	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T1R	1
		LP-A070-T9D6(7)-C5R	Input	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T5R	1
			Output	16	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T1R	1
		LP-A104-T9D8(9)-C6R	Input	32	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T5R	1
			Output	32	NPN	Sensor connector terminal block	NPN	CH20-HP□-C1T1R	1

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Controller				Connector	Terminal block to connect	Proper cable	
Manufacturer	Series	Module name	No. of I/O			Model name	Quantity
MITSUBISHI	J3	MR-J3-A	50	CN1	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
		MR-J3-B(□)	20	CN3	Interface terminal block	CH20-MP□-8R	1
		MR-J3-D01	20	CN20	Interface terminal block	CH20-MP□-8R	1
			26	CN6	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
			50	CN10	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
		MR-J3-T	20	CN20	Interface terminal block	CH20-MP□-8R	1
			26	CN6	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
			50	CM10	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
	J4	MR-J3W-B	26	CN3	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		MR-J4-B(-RJ)	20	CN3	Interface terminal block	CH20-MP□-8R	1
		MR-J4W2-B	26	CN3	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		MR-J4W2-0303B6	26	CN3	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		MR-J4W3-B	26	CN3	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		MR-J4-□A(-RJ)	50	CN1	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
		MR-J4-03A6(-RJ)	50	CN1	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
YASKAWA	Σ-7	SGD7S-□□□□10A	26	CN1	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		SGD7S-□□□□20A	26	CN1	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		SGD7S-□□□□00A	50	CN1	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
	Σ-5	SGDV	50	CN1	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
Panasonic	A6	A6NE	26	X4	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		A6NF	26	X4	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		A6BE	26	X4	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		A6BF	26	X4	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		A6SE	50	X4	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
		A6SG	50	X4	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
		A6SF	50	X4	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
	A5	MINAS A5 II N	26	X4	Interface terminal block	CH26-MP□-8R, CH26-MQ□-8R	1
		MINAS A5	50	X4	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1
		MINAS A5 II	50	X4	Interface terminal block	CH50-MP□-8R, CH50-MQ□-8R	1

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