

## CC-Link IE Field Basic compatible serial transmission slave unit W4G-T7 Series



Serial Transmission unit W4G-T7 series

First in the industry

## CC-Link IE Field Basic compatible slave unit added to series!



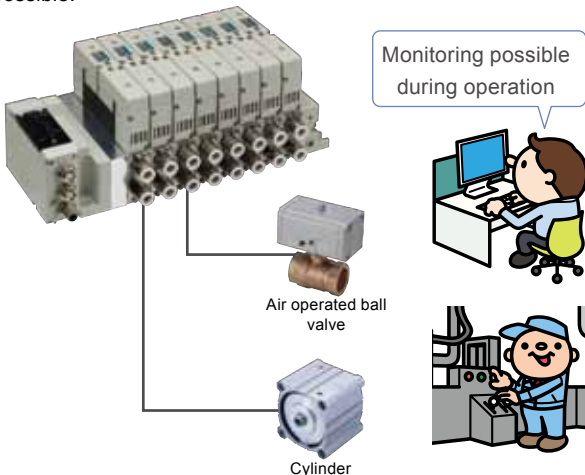
### CC-Link IE Field Basic

- Select from 32 point output/16 point output/16 point input and 16 point output, PNP/NPN.
- Can be used for both W4G2 and W4G4.
- IP65 structure.

#### Ideal for predictive maintenance

##### Counter function

You can count the number of outputs from the PLC to the valve, and monitor the operation cycle of the device connected to the valve and secondary side. It anticipates the maintenance period from the operation cycle and nominal lifespan, and makes predictive maintenance possible.



#### Easily set addresses

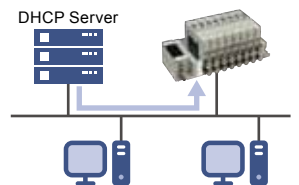
##### Set with rotary switches

You can directly set the address with the switches.



##### Assign from a DHCP server

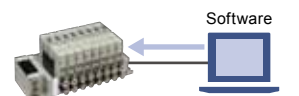
If a separate server is available, automatic acquisition of addresses is possible.



##### Assign from a PC

You can use third-party software to set the address.

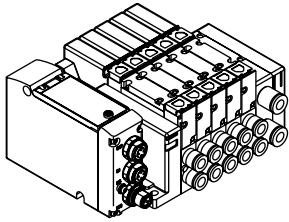
[Reference software]  
Mitsubishi Electric Corporation: GX Works2, GX Works3



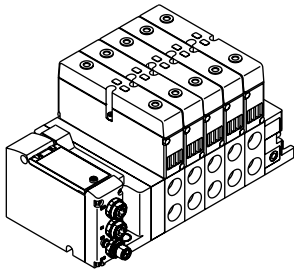
# W4G-T7 Series

## Specifications

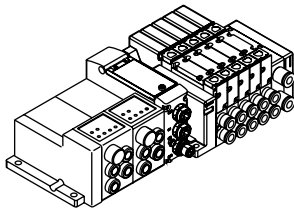
W4G2  
(without I/O block)



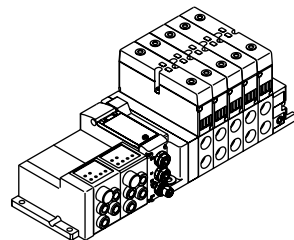
W4G4  
(without I/O block)



W4G2  
(with I/O block)



W4G4  
(with I/O block)



### ● Slave unit dedicated for valves (without I/O block)

Descriptions		T7EB1	T7EB2 *1	T7EBP1	T7EBP2 *1
Network name		CC-Link IEF Basic			
Power supply voltage	Unit side	24 VDC ±10%			
	Valve side	24 VDC +10%, -5%			
Power consumption	Unit side	130 mA or less			
	Valve side	15 mA or less (excluding load current)			
Valve output type		NPN		PNP	
I/O points		16 point output	32 point output	16 point output	32 point output
LED display	Power supply	2 spots: PW, PW (V)			
	Communication	4 spots: RUN, ERR, L/A IN, L/A OUT, INFO			
Protection rating		IP65			

\*1: No 32 point output when connecting with W4G4 valve.

### ● Slave unit with I/O block

Descriptions		T7EBB7	T7EBPB7
Network name		CC-Link IEF Basic	
Power supply voltage	Unit side	24 VDC ±10%	
	Valve side	24 VDC +10%, -5%	
Power consumption	Unit side	130 mA or less (*2: excluding input block current)	
	Valve side	15 mA or less (excluding load current)	
Valve output type		NPN	PNP
I/O points		16 point input/16 point output	16 point input/16 point output
LED display	Power supply	2 spots: PW, PW (V)	
	Communication	4 spots: RUN, ERR, L/A IN, L/A OUT, INFO	
Protection rating		IP65	

\*2: If the feed power supply of the input blocks also serves as the unit power supply, refer to "Pneumatic Valves" (No. CB-023SA).

\* When ordering only slave units, the MW4GB4 and MW4GZ4 series are available. Contact CKD for models Nos.

## Compatibility

MW3/4GA2, MW4GB2, MW4GZ2  
MW4GB4, MW4GZ4

## Individual specifications

### ● MW4G\*2

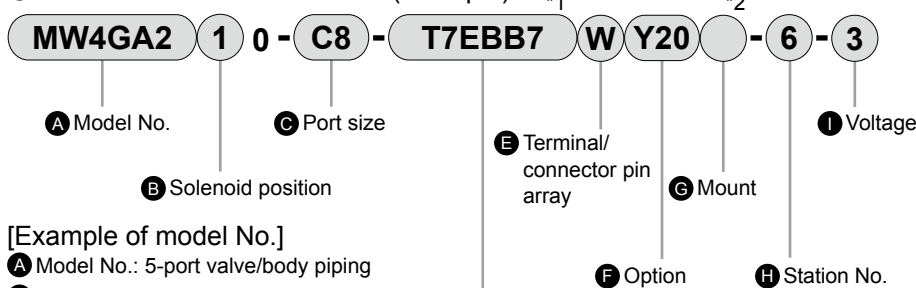
Descriptions		T7EB*1	T7EB*2	T7EB*7
Max. station No.	Standard wiring	16	18	16
	Double wiring	8	16	8
Max. number of solenoids		16	32	16
Max. number of I/O blocks (I/O)		-	-	(16/8)

### ● MW4G\*4

Descriptions		T7EB*1	T7EB*7
Max. station No.	Standard wiring	16	16
	Double wiring	8	8
Max. number of solenoids		16	16
Max. number of I/O blocks (I/O)		-	(16/8)

## How to order

### ● MW4G\*2 Manifold model No. (example)



\*Regarding listed model Nos.

This catalog only lists model Nos. for serial transmission slave units that have just been added (T7EB\*). Refer to "Pneumatic Valves" (Catalog No. CB-023SA) for details on the W4G\*2/4 Series, such as specifications and model No.

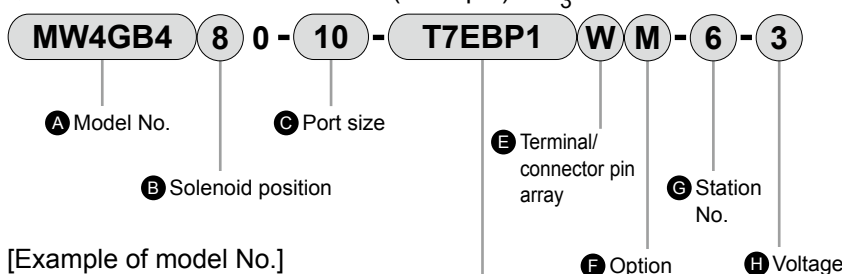
#### [Example of model No.]

- A Model No.: 5-port valve/body piping
- B Solenoid position: 2-position single
- C Port size: φ8 push-in fitting
- D Serial transmission: Drip proof thin I/O CC-Link IEF Basic 16/16 point I/O (NPN valve output)
- E Terminal/connector pin array: Double wiring
- F Option: 2 Input block  
\* Cannot select Y01 - Y04
- G Mount: Direct mount
- H Station No.: 6 stations
- I Voltage: 24 VDC

- \*1: All serial transmission slave units and I/O blocks are side wiring types.
- \*2: Not a DIN rail mount.

Code	Content
<b>D Serial transmission slave unit (lamp/surge suppressor provided as standard)</b>	
<b>T7EB1</b>	Drip proof thin CC-Link IEF Basic 16 point output (NPN valve output)
<b>T7EBP1</b>	Drip proof thin CC-Link IEF Basic 16 point output (PNP valve output)
<b>T7EB2</b>	Drip proof thin CC-Link IEF Basic 32 point output (NPN valve output)
<b>T7EBP2</b>	Drip proof thin CC-Link IEF Basic 32 point output (PNP valve output)
<b>T7EBB7</b>	Drip proof thin I/O CC-Link IEF Basic 16 point input/16 point output (NPN valve output)
<b>T7EBPB7</b>	Drip proof thin I/O CC-Link IEF Basic 16 point input/16 point output (PNP valve output)

### ● MW4G\*4 Manifold model No. (example)



#### [Example of model No.]

- A Model No.: 5-port valve/base side piping
- B Solenoid position: Mix manifolds
- C Port size: Rc3/8
- D Serial transmission: Drip proof thin CC-Link IEF Basic 16-point output (PNP valve output)
- E Terminal/connector pin array: Double wiring
- F Option: Non-locking manual override
- G Station No.: 6 stations
- H Voltage: 24 VDC

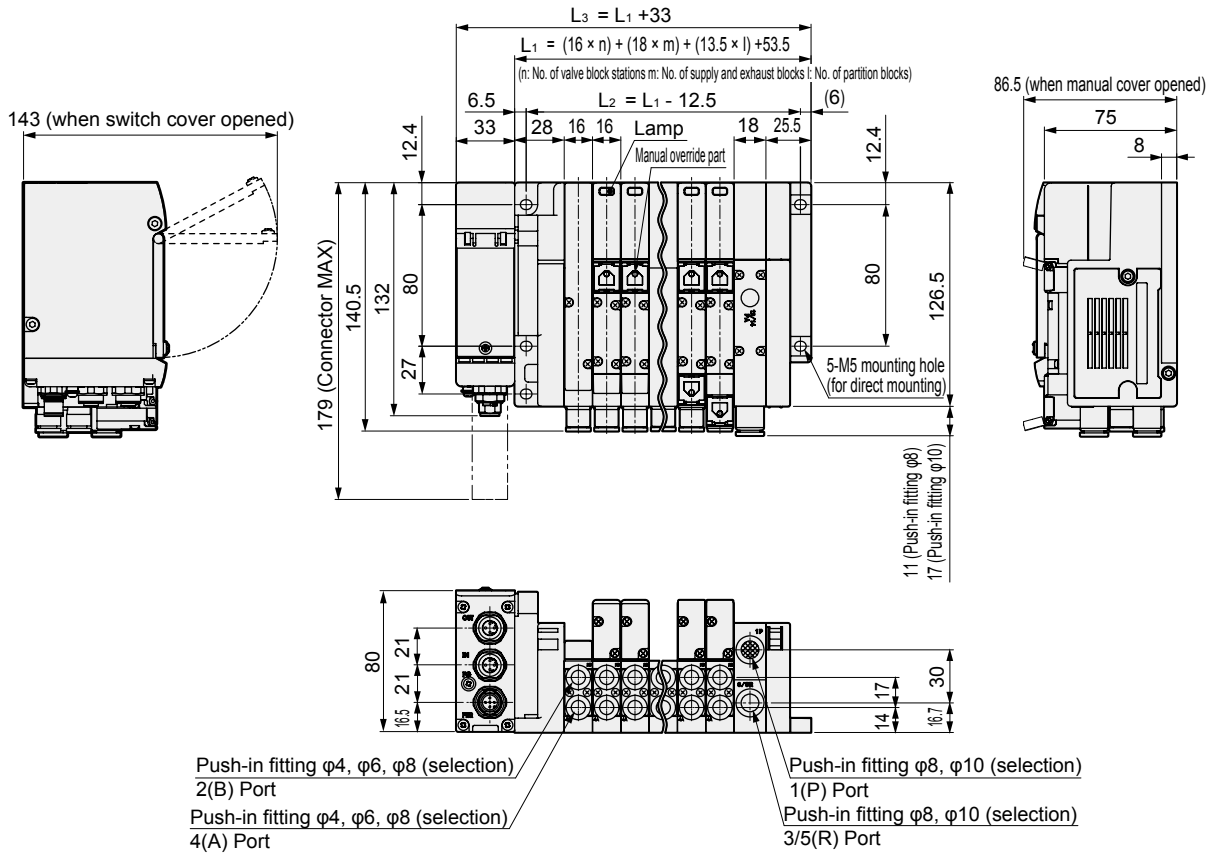
\*3: There is no right side (R) specification.

Code	Content
<b>D Serial transmission slave unit (lamp/surge suppressor provided as standard)</b>	
<b>T7EB1</b>	Drip proof thin CC-Link IEF Basic 16 point output (NPN valve output)
<b>T7EBP1</b>	Drip proof thin CC-Link IEF Basic 16 point output (PNP valve output)
<b>T7EBB7</b>	Drip proof thin I/O CC-Link IEF Basic 16 point input/16 point output (NPN valve output)
<b>T7EBPB7</b>	Drip proof thin I/O CC-Link IEF Basic 16 point input/16 point output (PNP valve output)

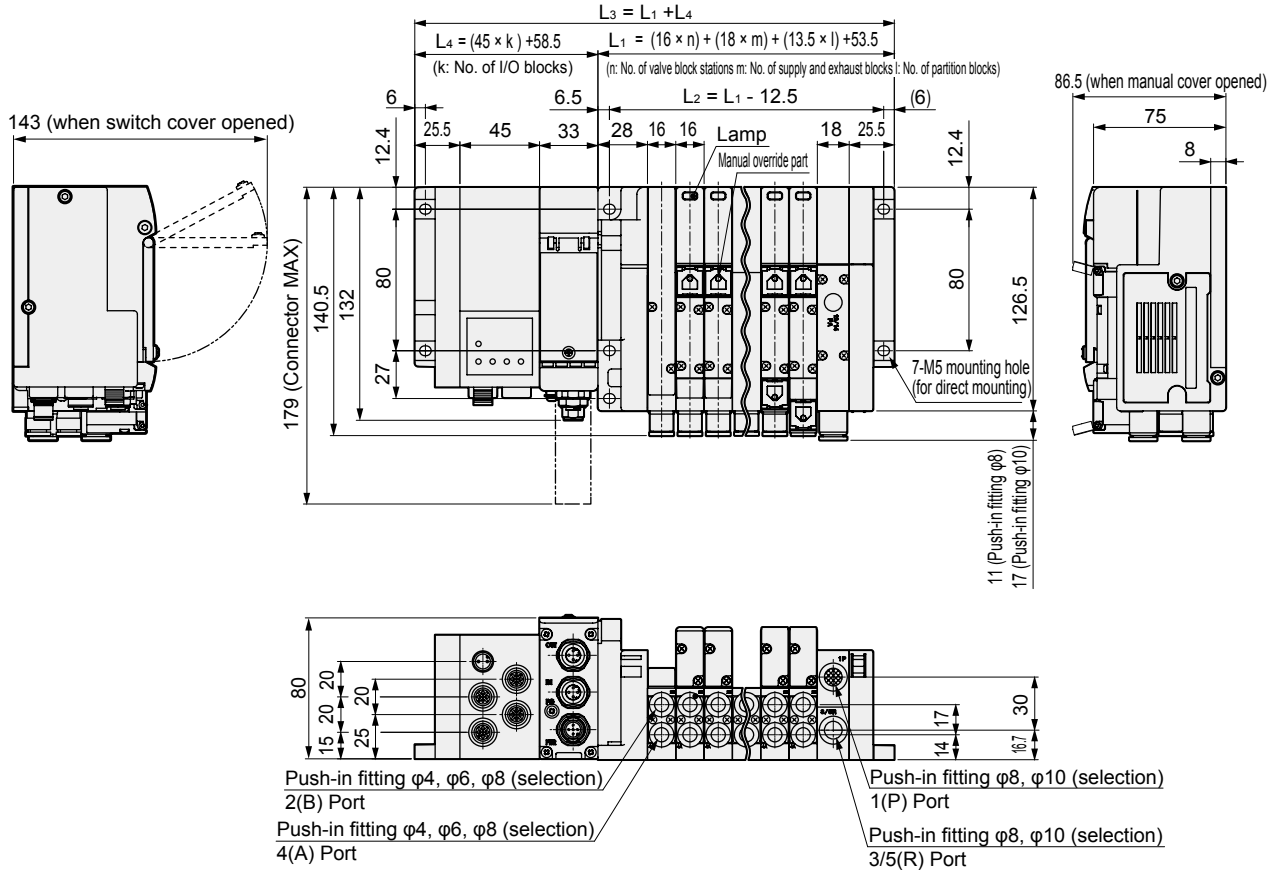
# W4G-T7 Series

## Dimensions

### ● MW4GB2-T7EB\*\*



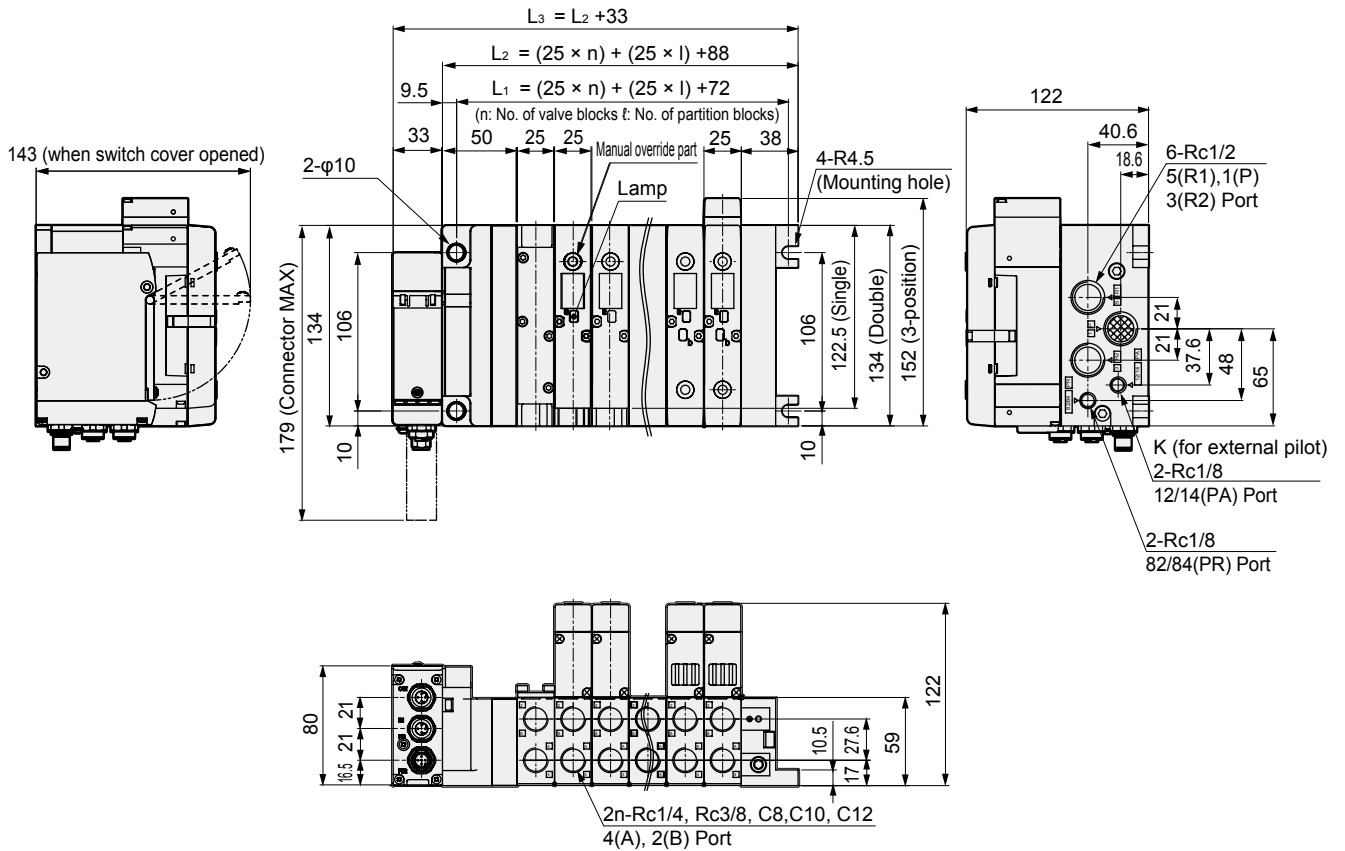
### ● MW4GB2-T7EB\*B7 (I/O)



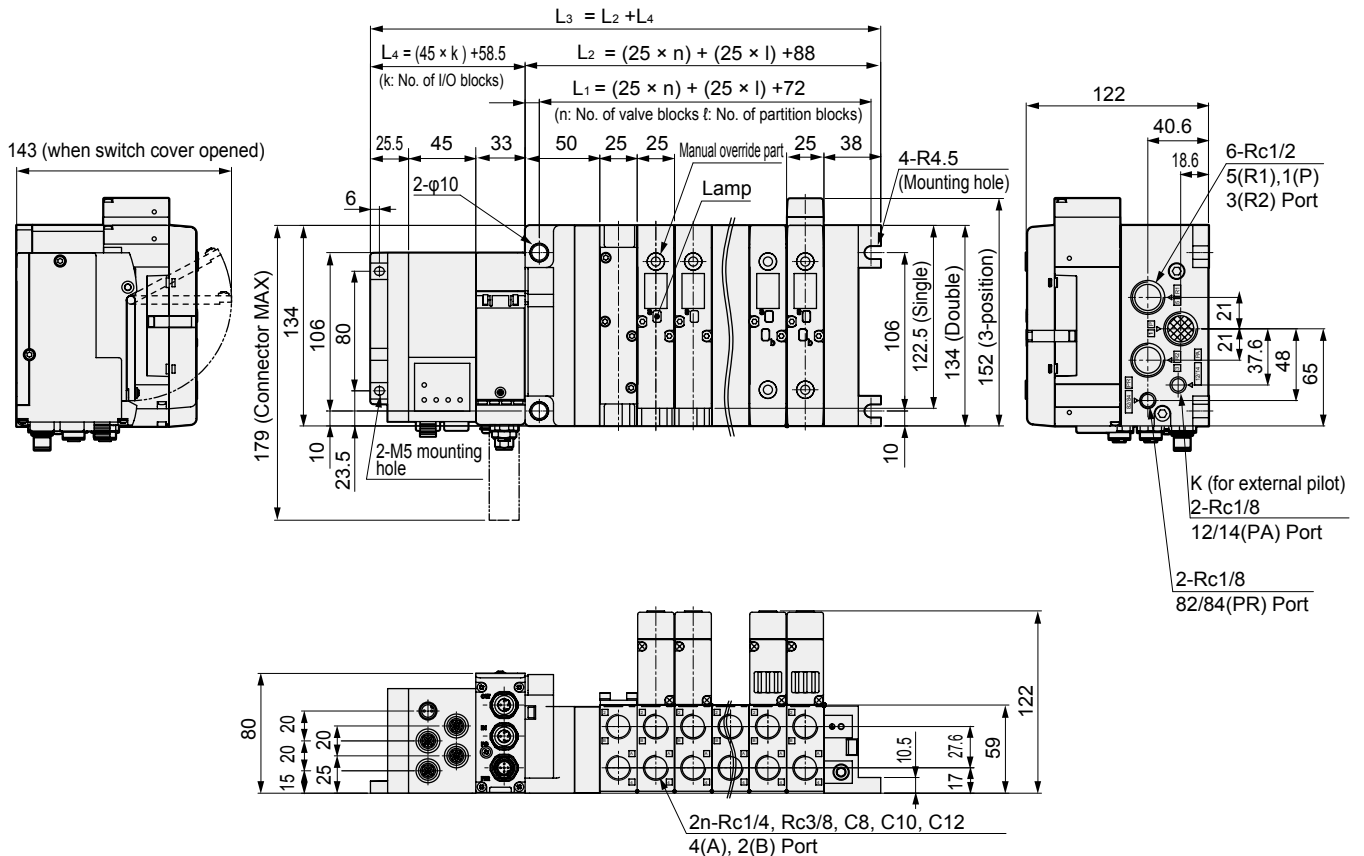
\* Refer to "Pneumatic Valves" (No. CB-023SA) for details on the other model Nos.

## Dimensions

### ● MW4GB4-T7EB\*\*



### ● MW4GB4-T7EB\*B7 (I/O)



\* Refer to "Pneumatic Valves" (No. CB-023SA) for details on the other model Nos.

## Technical data

### Slave unit wiring

#### ● Wiring of communication line

Please purchase communication cables or connectors that are compatible with the specifications of this product. For wiring method, refer to the following communication connector pin array and communication cable wiring example. Use CAT5 or higher for communication cable lines.

Recommended M12-RJ45 communication cable with connector

: Model XS5W-T421-□MC-K Straight Manufactured by OMRON Corporation

: Part No.: 09 45 700 50□□ Straight Manufactured by HARTING

Recommended communication connector and cable

: Part No.: 09 45 600 01□□ only cable Manufactured by HARTING

: Part No.: 21 03 281 1405 Assembly M12 connector Manufactured by HARTING

: Part No.: 09 45 151 1100 Assembly RJ-45 connector Manufactured by HARTING

#### ● Power cable wiring

Please purchase power cables or connectors that are compatible with the specifications of this product.

Recommended M12-unfastened lead power cable

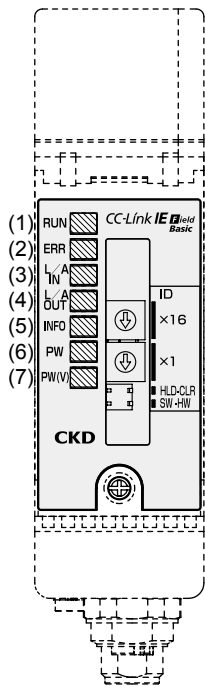
: XS2F-D421-□8□□ Straight Manufactured by OMRON Corporation

Recommended power connector and cable: Part No.: 21 03 212 2305 Assembly M12 connector Manufactured by HARTING

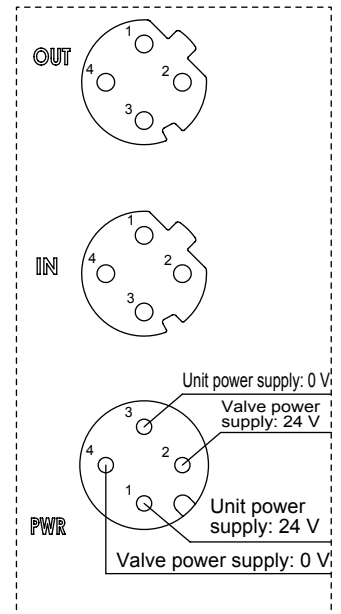
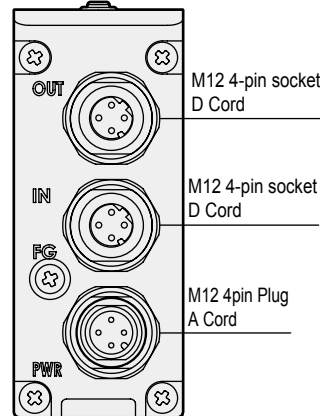
Electric wire size: AWG22-18, Applicable cable diameter: φ6 to 8

\* □ differs depending on the cable specifications

### LED display



### Wiring



### LED display description

LED	Name	Display description
(1)	RUN	Status of CC-Link IEF Basic communication is indicated by the LED state (ON/blinking)
(2)	ERR	Status of CC-Link IEF Basic abnormal communication is indicated by the LED state (ON/blinking)
(3)	L/A IN	Status of the Ethernet port (IN side) is indicated by the LED state (ON/blinking)
(4)	L/A OUT	Status of the Ethernet port (OUT side) is indicated by the LED state (ON/blinking)
(5)	INFO	Status of the slave unit is indicated by the LED state (ON/blinking)
(6)	PW	Displays the power status of the unit power. Lights in green when powered ON
(7)	PW (V)	Displays the power status of the valve power. Lights in green when powered ON (Cannot be monitored when the unit power is not turned ON)

### Communication connector pin array

Port	Pin	Signal name	Function
IN	1	TD+	Transmitted data, positive
	2	RD+	Received data, positive
OUT	3	TD-	Transmitted data, negative
	4	RD-	Received data, negative

### Power supply connector pin array

Port	Pin	Function
PWR	1	Unit power supply : 24 V
	2	Valve power supply : 24 V
	3	Unit power supply : 0 V
	4	Valve power supply : 0 V



## MW4G□2 (reduced wiring) block manifold specifications sheet

● Contact ● Quantity/set(s) ● Delivery date / / Date issued / /  
 Slip No. Order No. Company  
 ● Manifold model No. Contact  
Order No.

**MW** □ **G** □ **2** □ □ **0**- □ - □ □ □ □ - □ - □  
 Ⓐ Model No.    Ⓑ Solenoid position    Ⓒ Port size    Ⓓ Reduced wiring connection    Ⓔ Terminal/connector pin array    Ⓕ Option    Ⓖ Mount type\*    Ⓗ Station No.    Ⓘ Voltage No.

\* Not a DIN rail mount.

Select a model number from "Block components" for "Pneumatic valves" (No. CB-023SA) when inputting.

Part name (page)	Model No.	Layout position																														Qty.			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
I/O block	NW4GB2-IN-□-□																																		
	NW4GB2-OUT-□-□-B																																		
Wiring block	NW4G2-T7EB-□																																		
With solenoid valve Valve block	NW4G□2□0-□																																		
	NW4G□2□0-□																																		
	NW4G□2□0-□																																		
	NW4G□2□0-□																																		
	NW4G□2□0-□																																		
	NW4G□2□0-□																																		
	NW3G□2□0-□																																		
With masking plate Valve block	NW4G□2-MPS-□																																		
	NW4G□2-MPD-□																																		
Supply and exhaust block	NW4G2-Q□□□□																																		
	NW4G2-Q□□□□																																		
	NW4G2-Q□□□□																																		
	NW4G2-Q□□□□																																		
Various spacers	Air supply spacer W4G2-P□□□□																																		
	Exhaust spacer W4G2-R□□□□																																		
	Spacer pilot check valve W4G2-PC-M																																		
	Individual air supply compatible spacer with in-stop valve spacer W4G2-PIS-□□□□																																		
Partition block	NW4G2-□□□□																																		
	NW4G2-□□□□																																		
	NW4G2-□□□□																																		
End block	NW4G2-□□□□R																																		
		Blanking plug					Silencer					Tag plate					Attached part																		
		GWP4-B				GWP6-B				SLW-H8				B																					
		GWP8-B				GWP10-B				SLW-H10																									

\* Wiring block, I/O block is side wiring only.

## MW4G 4 Block manifold specifications sheet

● Contact                                  ● Quantity/set(s)                                  ● Delivery date     /     /

Date issued     /     /

Slip No.	Order No.
----------	-----------

Company

● Manifold model No.

Contact

**MW4G**  **4**  **0** -  -    -  -

Ⓐ Model No.    Ⓑ Solenoid position    Ⓒ Port size    Ⓓ Wiring method\*    Ⓔ Terminal/connector pin array    Ⓝ Option    Ⓖ Station No.    Ⓧ Voltage

Order No.

Select a model number from "Block components" for "Pneumatic valves" (No. CB-023SA) when inputting.

Part name	Model No.	Installation position																						Quantity	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
End block	NW4G4-E- <input type="text"/> R- <input type="text"/>																								
I/O block	NW4GB2-IN- <input type="text"/> - <input type="text"/>																								
	NW4GB2-OUT- <input type="text"/> -B																								
Wiring block	NW4G4-T7EB: <input type="text"/>																								
Valve block with solenoid valve	NW4G <input type="text"/> 4 <input type="text"/> 0- <input type="text"/> - <input type="text"/> - <input type="text"/>																								
	NW4G <input type="text"/> 4 <input type="text"/> 0- <input type="text"/> - <input type="text"/> - <input type="text"/>																								
	NW4G <input type="text"/> 4 <input type="text"/> 0- <input type="text"/> - <input type="text"/> - <input type="text"/>																								
	NW4G <input type="text"/> 4 <input type="text"/> 0- <input type="text"/> - <input type="text"/> - <input type="text"/>																								
	NW4G <input type="text"/> 4 <input type="text"/> 0- <input type="text"/> - <input type="text"/> - <input type="text"/>																								
Valve block with masking plate	NW4G <input type="text"/> 4-MP: <input type="text"/> - <input type="text"/> - <input type="text"/>																								
	NW4G <input type="text"/> 4-MP: <input type="text"/> - <input type="text"/> - <input type="text"/>																								
Spacer	Independent air supply spacer W4G4-P: <input type="text"/>																								
	Independent exhaust spacer W4G4-R: <input type="text"/>																								
Attachment	Silencer (resin) SLW-15A	List the number of units to be used in the quantity field on the right.																							
	Blanking plug																							GWP8-B	
																								GWP10-B	
																								GWP12-B	

\* I/O block is side wiring only.

\* As one side is for air supply and one side is for exhaust, use the air supply spacer or exhaust spacer when operating valves simultaneously.

\* As one side is for air supply and one side is for exhaust, partition block and partition plug cannot be used.

\* No right side (R) specification when wiring block T7EB (CC-Link IEF Basic).

If the goods and/or their replicas, the technology and/or software found in this catalog are to be exported, law requires that the exporter makes sure that they will never be used for the development and/or manufacture of weapons for mass destruction.

**CKD Corporation**  
 <Website>  
<http://www.ckd.co.jp/>

Head Office · Plant	2-250 Uji, Komaki City, Aichi 485-8551	TEL(0568)77-1111 FAX(0568)77-1123
Sales And Marketing Div.	2-250 Uji, Komaki City, Aichi 485-8551	TEL(0568)74-1303 FAX(0568)77-3410
Overseas Sales Administration dpt.	2-250 Uji, Komaki City, Aichi 485-8551	TEL(0568)74-1338 FAX(0568)77-3461
Tokyo Branch Office	4F, Bunkahousou Media Plus, 1-31-1, Hamamatsu-cho, Minato-ku, Tokyo 105-0013	TEL(03)5402-3620 FAX(03)5402-0120
Nagoya Branch Office	2-250 Uji, Komaki City, Aichi 485-8551	TEL(0568)74-1356 FAX(0568)75-1692
Osaka Branch Office	1-3-20, Tosabori, Nishi-ku, Osaka 550-0001	TEL(06)6459-5770 FAX(06)6446-1945