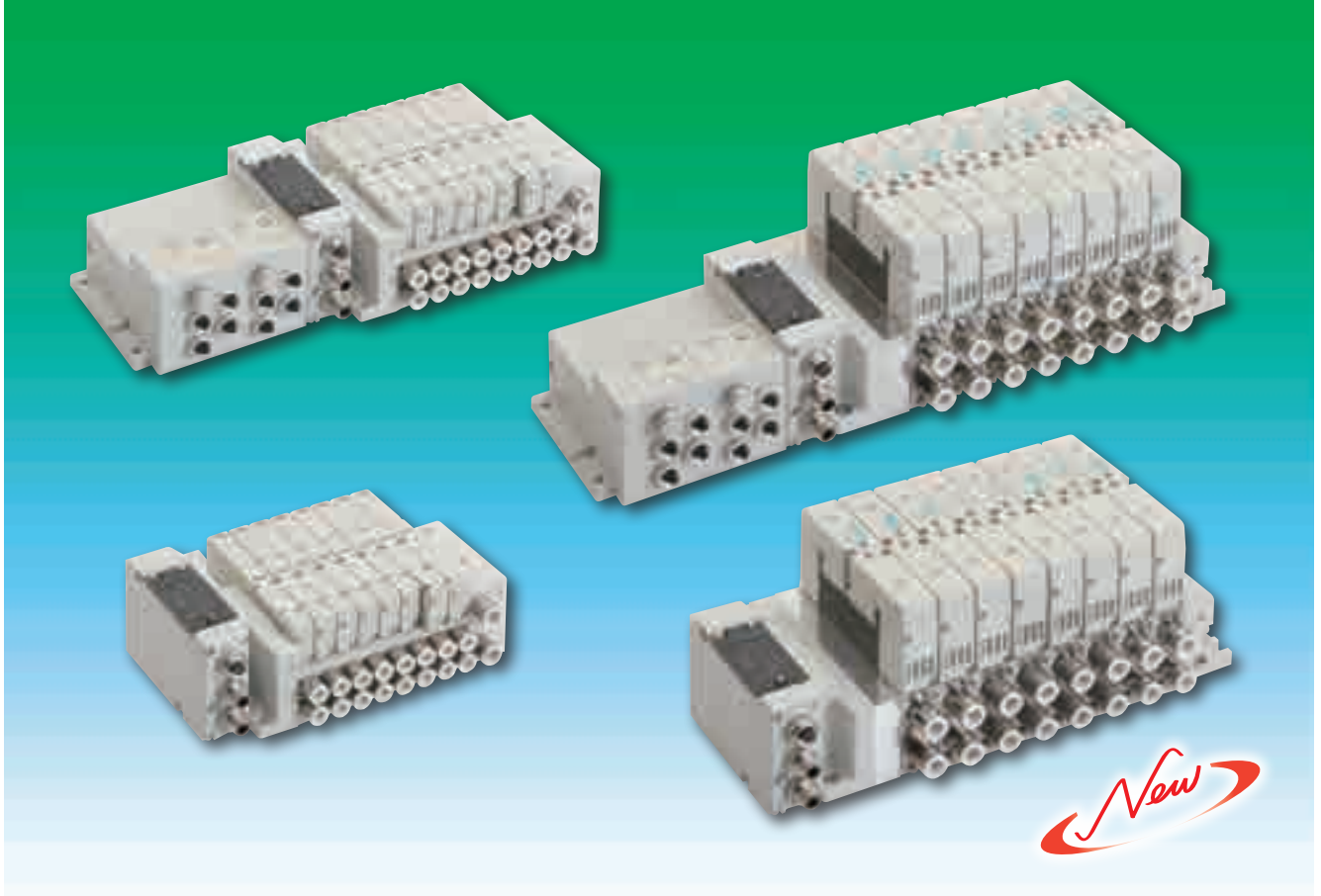


CC-Link Compatible Serial Transmission Slave Unit W4G-T7 Series



Introducing a new CC-Link compatible slave unit to the series

Overview

- The CC-Link T7 Series slave unit has been added with 16-point or 32-point I/O options. NPN/PNP polarity can also be selected.
- 16-point input and 16-point output can be selected for the W4G4 Series.



Features

- Connection to CC-Link is possible with a general purpose M12 connector.
- IP65 structure.
- Up to 32 input or output contacts can be controlled, despite its thin and compact form.

[Compatibility]

MW3/4GA2, MW4GB2, MW4GZ2
MW4GB4, MW4GZ4



Always read the precautions described in "Pneumatic Valves (Catalog No. CB-023SA)" before use.

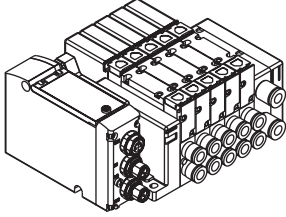
CKD Corporation

CC-1401A

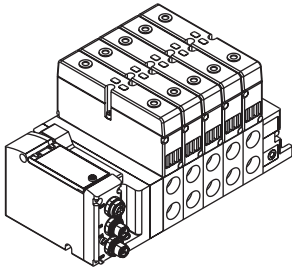
W4G-T7 Series

Specifications

W4G2
(No I/O block)



W4G4
(No I/O block)

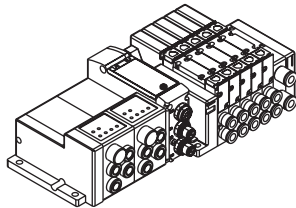


● Slave unit dedicated for valves (without I/O block)

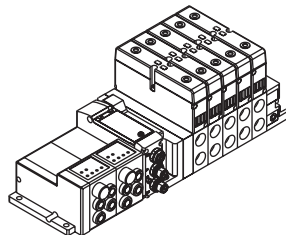
Items		T7G1	T7G2 *1	T7GP1	T7GP2 *1
Network name		CC-Link ver1.10			
Power supply voltage	Unit side	24 VDC±10%			
	Valve side	24 VDC±10%, -5%			
Current consumption	Unit side	40 mA or less	50 mA or less	40 mA or less	50 mA or less
	Valve side	15 mA or less (excluding load current)			
Valve output		NPN output		PNP output	
No. of I/O points		16 points	32 points	16 points	32 points
LED display	Power supply	2 points: Unit power supply (PW)/valve power supply (PW(V))			
	Communication	2 points: L RUN, L ERR			
Degree of protection		IP65			

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

W4G2
(with I/O block)



W4G4
(with I/O block)



● Slave unit with I/O block

Items		T7GB7	T7GPB7
Network name		CC-Link ver1.10	
Power supply voltage	Unit side	24 VDC±10%	
	Valve side	24 VDC±10%, -5%	
Current consumption	Unit side	50 mA or less (*2) excluding input block current	
	Valve side	15 mA or less (excluding load current)	
Valve output		NPN output	PNP output
No. of I/O points		16 point input/16 point output	16 point input/16 point output
LED display	Power supply	2 points: Unit power supply (PW)/valve power supply (PW(V))	
	Communication	2 points: L RUN, L ERR	
Degree of protection		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).

Compatibility

MW3/4GA2, MW4GB2, MW4GZ2
MW4GB4, MW4GZ4

Individual specifications

● MW4G*2

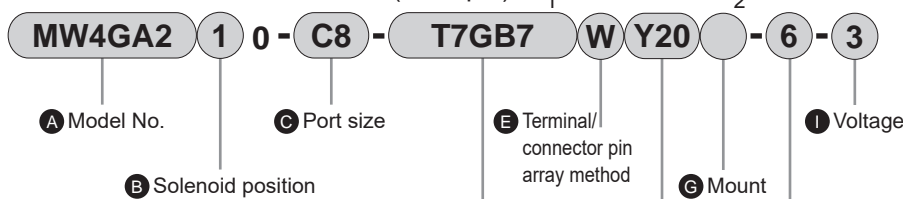
Items		T7G*1	T7G*2	T7G*7
Max. station No.	Standard wiring	16	18	16
	Double wiring	8	16	8
Max. number of solenoids		16	32	16
Max. number of I/O blocks (I/O)		-	-	(16/8)

● MW4G*4

Items		T7G*1	T7G*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) ^{*1}



[Example of model No.]

- A Model No. : 5-port valve/body piping
- B Solenoid position : 2-position single
- C Port size : ø8 push-in fitting
- D Serial transmission : Drip proof thin type with I/O CC-Link 16/16 points I/O (NPN valve output)
- E Terminal/connector pin array method : Double wiring
- F Option : Input block x 2 pcs
*Y01 to Y04 cannot be selected
- G Mount : Direct mount
- H Station No. : 6 stations
- I Voltage : 24 VDC

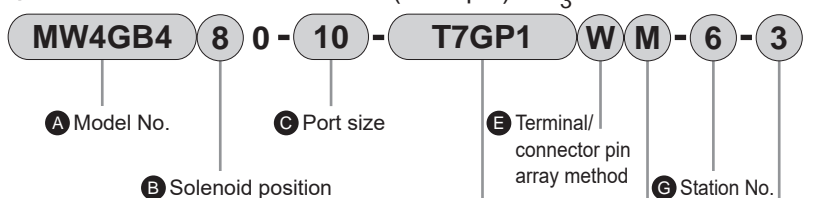
*Model Numbers

Only models with serial transmission slave unit (T7G*) newly added are shown in this catalog. Refer to "Pneumatic Valves (Catalog No. CB-023SA)" for details (specifications, model No., etc.) of the W4G*2/4 series.

- *1: Serial transmission slave units and I/O blocks are all side wiring.
- *2: Not a DIN rail mount.

Code	Description
D Serial transmission slave unit (lamp/surge suppressor provided as standard)	
T7G1	Drip proof thin type CC-Link 16-point output (NPN valve output)
T7GP1	Drip proof thin type CC-Link 16-point output (PNP valve output)
T7G2	Drip proof thin type CC-Link 32-point output (NPN valve output)
T7GP2	Drip proof thin type CC-Link 32-point output (PNP valve output)
T7GB7	Drip proof thin I/O type CC-Link 16-point input/16-point output (NPN valve output)
T7GPB7	Drip proof thin I/O type CC-Link 16-point input/16-point output (PNP valve output)

● MW4G*4 Manifold Model No. (example) ^{*3}



[Example of model No.]

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

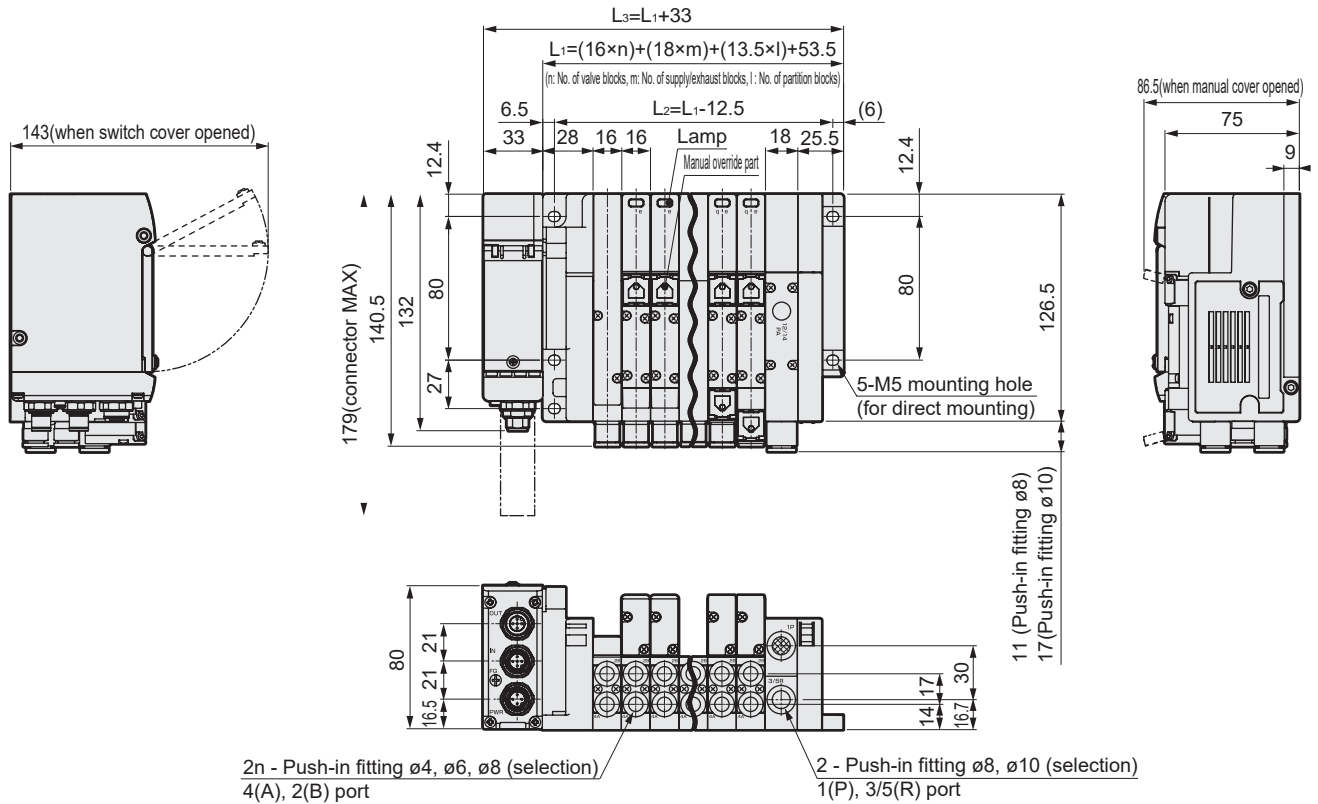
- *3: There is no right side (R) specification.

Code	Description
D Serial transmission slave unit (lamp/surge suppressor provided as standard)	
T7G1	Drip proof thin type CC-Link 16-point output (NPN valve output)
T7GP1	Drip proof thin type CC-Link 16-point output (PNP valve output)
T7GB7	Drip proof thin I/O type CC-Link 16-point input/16-point output (NPN valve output)
T7GPB7	Drip proof thin I/O type CC-Link 16-point input/16-point output (PNP valve output)

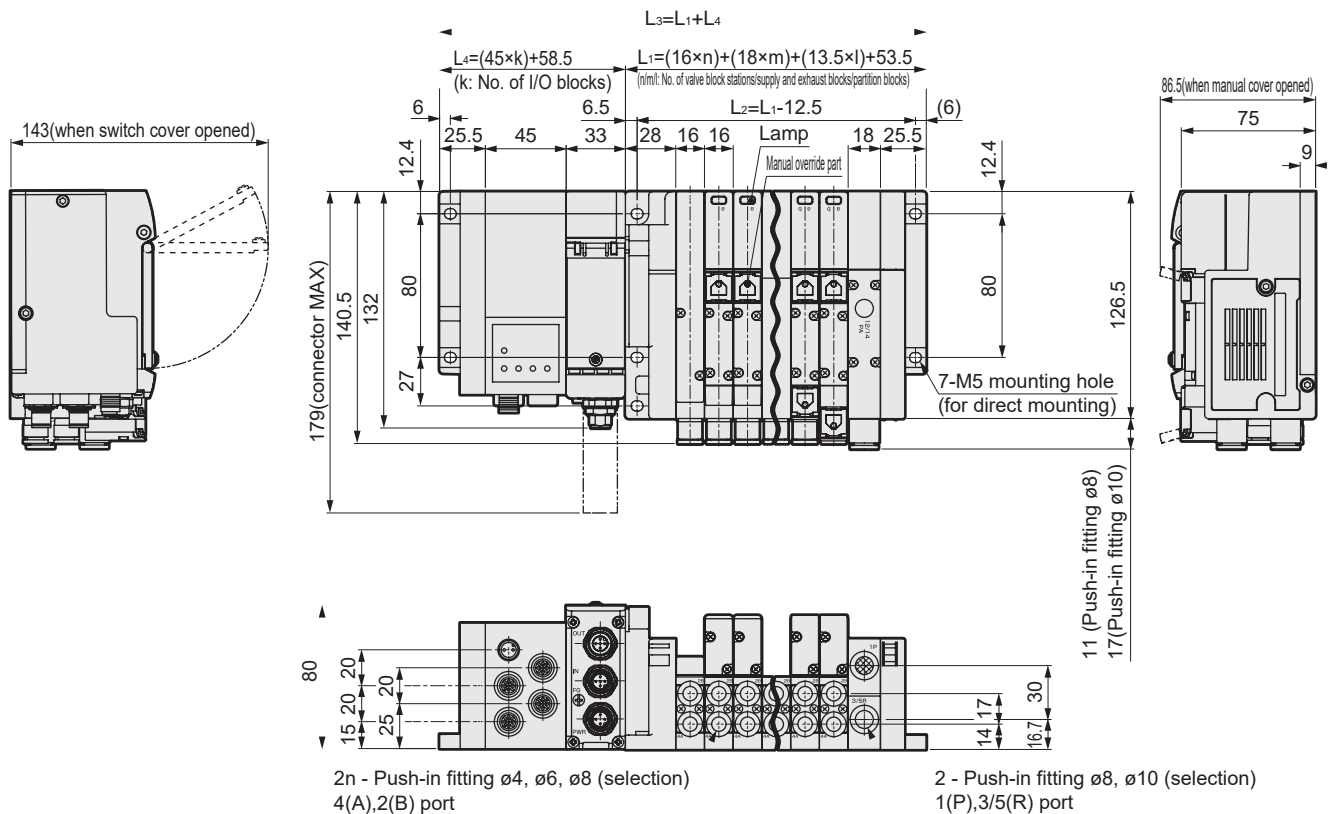
W4G-T7 Series

Dimensions

● MW4GB2-T7G**



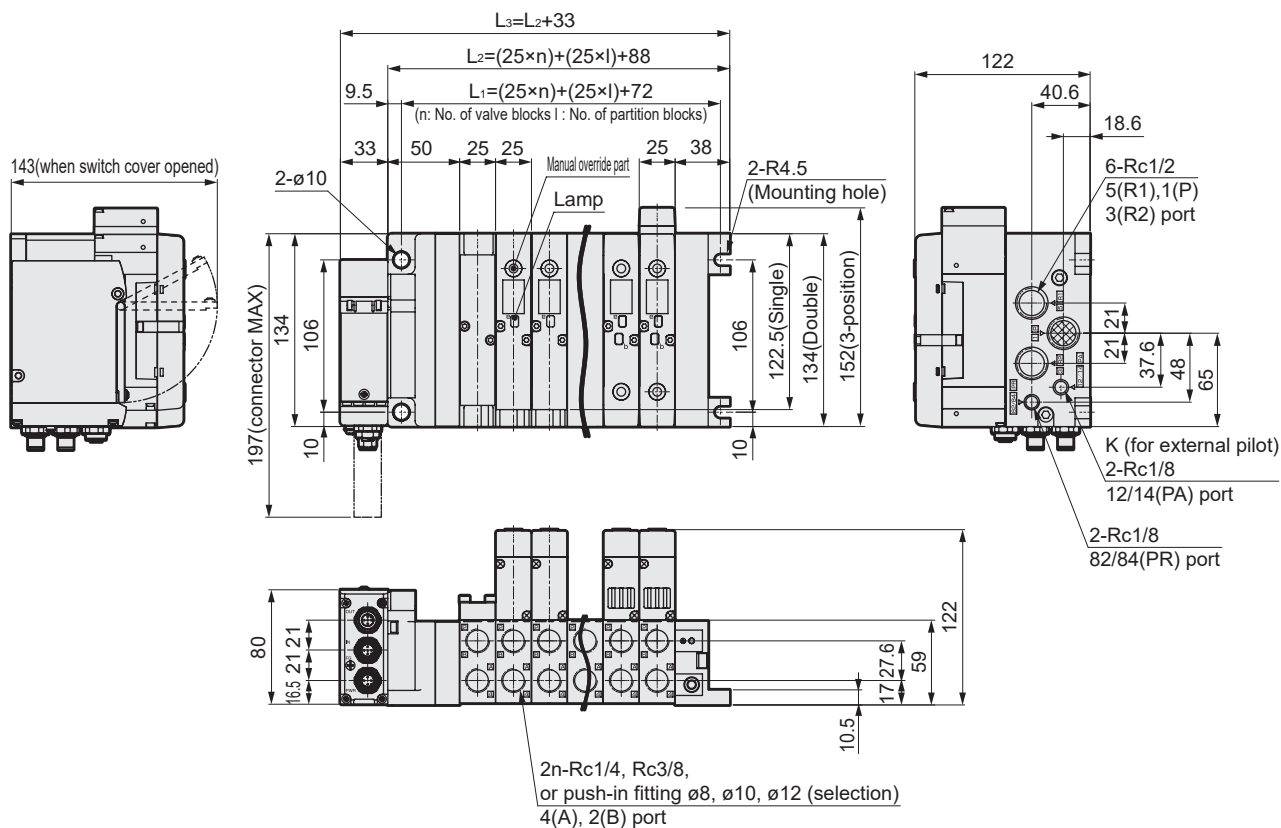
● MW4GB2-T7G*B7 (with I/O type)



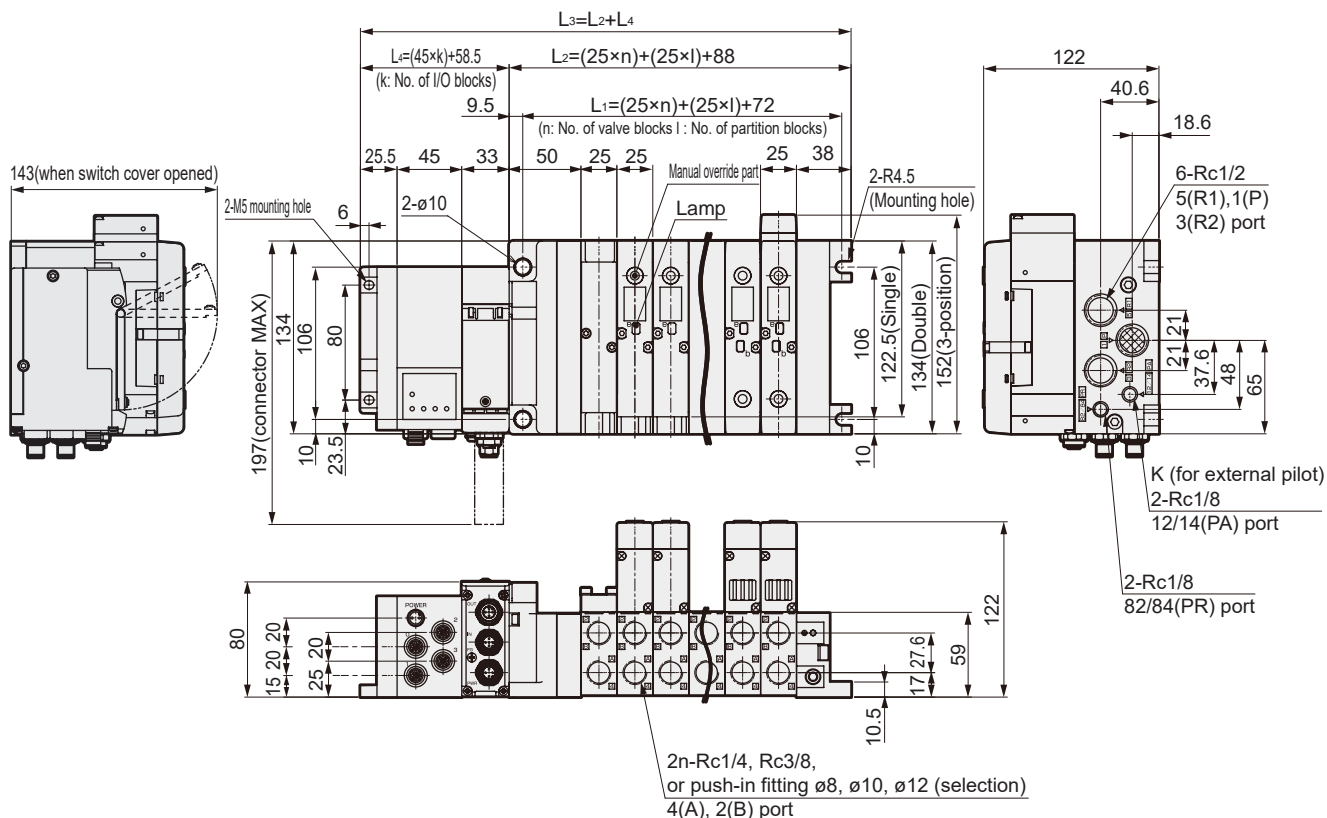
*Refer to "Pneumatic Valves" (No. CB-023SA) for details on the other model Nos.

Dimensions

● MW4GB4-T7G**



● MW4GB4-T7G*B7 (with I/O type)



*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. (□ differs depending on the cable in length.)

- Connector with cable for both sides : SAC-4P-M12MS/□□□□□□-990/M12FS (socket/plug) Product of Phoenix Contact Corp
- Connector with cable for one side -IN : SAC-4P-M12MS/□□□□□□-990 (socket) Product of Phoenix Contact Corp
- (Specify a 5-pole M12 connector for the IN socket.)
- OUT : SAC-4P-M12MS/□□□□□□-M12FS (plug) Product of Phoenix Contact Corp

*Termination resistor can be configured using the switches at the top of the product. Connect the following terminating resistor to the OUT side if not using switches.

Terminating resistor M12 connector : SAC-4P-M12MD CCL TR Product of Phoenix Contact Corp

● Wiring to the power supply socket

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

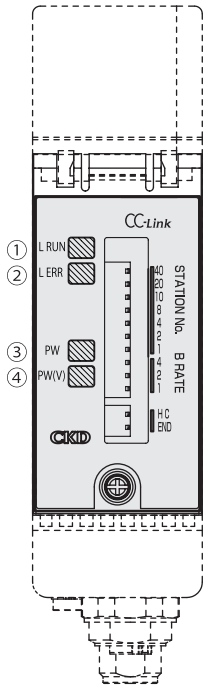
Recommended M12-loose wire power cable : XS2F-D421-□8□□ straight Manufactured by OMRON Corporation

Recommended communication plug and power cable : Part No.: 2103 212 2305 Assembly type M12 connector Manufactured by HARTING

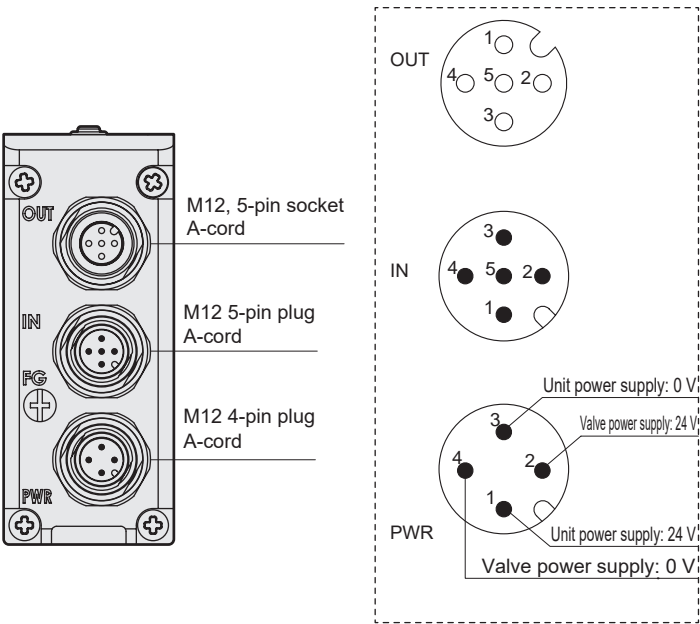
Electric wire size: AWG22-18, Applicable cable diameter : ø6 to 8

* □ differs depending on the cable specifications

LED display



Wiring



LED display description

LED	Name	Display description
①	L RUN	Shows the data link status
②	L ERR	Shows the data link abnormality status
③	PW	Lights when unit power is ON.
④	PW(V)	Lights when valve power is ON. (Cannot be monitored when the unit power is not turned ON)

Communication connector pin array

Port	Pin	Signal name	Wire insulation color/others
IN	1	SLD	Ground wire (shield)
	2	DB	White
	3	DG	Yellow
	4	DA	Blue
	5	-	N.C.
OUT	1	SLD	Ground wire (shield)
	2	DB	White
	3	DG	Yellow
	4	DA	Blue
	5	-	N.C.

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 ● Contact Set ● Delivery date / / /
 Slip No. Order No. Company
 Contact
 Order No.

● Manifold model No.
MW **G** **2** **0-** - - -

● Model No. ● Solenoid position ● Port size ● Reduced wiring connection ● Terminal/connector pin array ● Option ● Mount type ● Station No. ● Voltage Note

* 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																														Quantity
		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- <input type="text"/> - <input type="text"/>																															
	NW4GB2-OUT- <input type="text"/> -B																															
Wiring block	NW4G2-T7G <input type="text"/>																															
Valve block with solenoid valve	NW4G <input type="text"/> 2 <input type="text"/> 0- <input type="text"/>																															
	NW4G <input type="text"/> 2 <input type="text"/> 0- <input type="text"/>																															
	NW4G <input type="text"/> 2 <input type="text"/> 0- <input type="text"/>																															
	NW4G <input type="text"/> 2 <input type="text"/> 0- <input type="text"/>																															
	NW4G <input type="text"/> 2 <input type="text"/> 0- <input type="text"/>																															
	NW4G <input type="text"/> 2 <input type="text"/> 0- <input type="text"/>																															
	NW3G <input type="text"/> 2 <input type="text"/> 0- <input type="text"/>																															
	NW3G <input type="text"/> 2 <input type="text"/> 0- <input type="text"/>																															
Valve block with masking plate	NW4G <input type="text"/> 2-MPS- <input type="text"/>																															
	NW4G <input type="text"/> 2-MPD- <input type="text"/>																															
Supply and exhaust block	NW4G2-Q <input type="text"/> - <input type="text"/> - <input type="text"/>																															
	NW4G2-Q <input type="text"/> - <input type="text"/> - <input type="text"/>																															
	NW4G2-Q <input type="text"/> - <input type="text"/> - <input type="text"/>																															
	NW4G2-Q <input type="text"/> - <input type="text"/> - <input type="text"/>																															
Various spacers	Air supply spacer W4G2-P <input type="text"/> - <input type="text"/>																															
	Exhaust spacer W4G2-R <input type="text"/>																															
	Spacer pilot check valve W4G2-PC-M																															
	Individual air supply compatible spacer with in-stop valve spacer W4G2-PIS- <input type="text"/>																															
Partition block	NW4G2- <input type="text"/>																															
	NW4G2- <input type="text"/>																															
	NW4G2- <input type="text"/>																															
End block	NW4G2- <input type="text"/> R																															
		Blanking plug										Silencer										Tag plate		Included parts								
		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 ● Delivery date / /
 Slip No. Order No.

● Manifold model No.
MW4G **4** **0-** - - -

● Model No. ● Solenoid position ● Port size ● Wiring method ● Terminal/connector ● Option ● Station No. ● Voltage
Note pin array

Date issued / /
 Company
 Contact
 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	
Block components	End block	NW4G4-E- <input type="text"/> R- <input type="text"/>																							
	I/O block	NW4GB2-IN- <input type="text"/>																							
		NW4GB2-OUT- <input type="text"/> -B																							
	Wiring block	NW4G4-T7G- <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"/>																							
Spacers	Independent 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.

* There is no right side (R) specification.

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CKD Corporation

[Website]
https://www.ckd.co.jp/en/

Head Office / Plant
Tokyo Office

Osaka Office

2-250, Ouj, Komaki, Aichi 485-8551

4F, Bunkahousou Media Plus, 1-31-1, Hamamatsu-cho,
Minato-ku, Tokyo 105-0013

6F, PMO EX Shin-Osaka, 4-2-10 Miyahara,
Yodogawa-ku, Osaka 532-0003

TEL(0568)77-1111

TEL(03)5402-3620

TEL(06)6152-9415

FAX(0568)77-1123

FAX(03)5402-0120

FAX(06)4866-5391