

EtherNet/IP compatible serial transmission slave unit W4G-T7 Series



EtherNet/IP Compatible Slave Unit Added to the Series

Overview

Compatibility with worldwide EtherNet/ IP communication contributes to reduced wiring valves and fewer wiring steps.



Features

- Select from 32 point output / 16 point output / 16 point input or 16 point output, and PNP/ NPN.
- A compact design saves on installation space.
- IP65 construction.

(Compatibility)

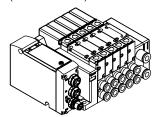
MW3/4GA2, MW4GB2, MW4GZ2 MW4GB4, MW4GZ4



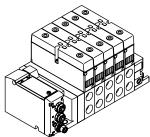
W4G-T7 Series

Specifications

W4G2 (Without I/O block)



W4G4 (Without I/O block)

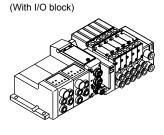


Slave unit dedicated for valves (without I/O block)

Desc	riptions	T7EN1	T7EN2 *1	T7ENP1	T7ENP2 *1										
Netwo	ork name	EtherNet/IP													
Power supply	Unit side	24 VDC ±10%													
Voltage	Valve side	24 VDC +10%, -5%													
Consumption	Unit side	130 mA or less													
Current	Valve side	15 mA or less (excluding load current)													
Valve o	output type	NPN (Dutput												
No. of	I/O points	16 point output	16 point output 32 point output 16 point output												
LED	Power supply	2 positions: Unit power supply and valve power supply													
Display	Communication		4 positions: MS, NS,	L/A IN, and L/A OUT											
Degree of	of protection		IP	65											

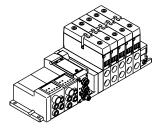
^{*1:} When connecting to the W4G4 valve, 32 point output is not available.

Slave unit with I/O block





W4G2



Desc	riptions	T7ENB7	T7ENPB7										
Netwo	ork name	EtherNet/IP											
Power supply	Unit side	24 VDC ±10%											
Voltage	Valve side	24 VDC +10%, -5%											
Consumption	Unit side	130 mA or less (*2: excluding input block current)											
Current	Valve side	15 mA or less (excluding load current)											
Valve	e output	NPN Output	PNP Output										
No. of	I/O points	16 point input/16 point output	16 point input/16 point output										
LED	Power supply	2 positions: Unit power supply and valve power supply											
Display	Communication	4 positions: MS, NS, L/A IN, and L/A OUT											
Degree o	of protection	IPo	65										

^{*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

^{*} When ordering the slave unit only, MW4GB4 and MW4GZ4 Series are supported. Contact CKD for the order model No.

Individual specifications/how to order

Individual specifications

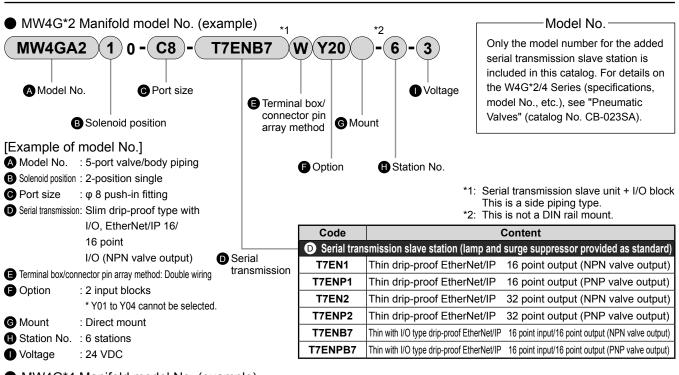
MW4G*2

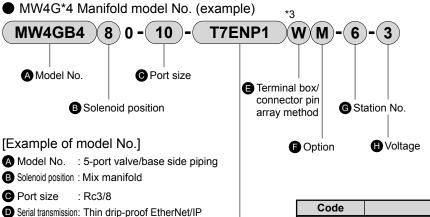
Descr	iptions	T7EN*1	T7EN*2	T7EN*7
Max. station	Standard wiring	16	18	16
No.	Double wiring	8	16	8
Max. number of solenoids		16	32	16
I/O block max. number of inputs (input/output)		-	-	(16/8)

MW4G*4

Descr	iptions	T7EN*1	T7EN*7
Max. station	Standard wiring	16	16
No.	Double wiring	8	8
Max. numbe	r of solenoids	16	16
I/O block max. number	of inputs (input/output)	-	(16/8)

How to order





: Non-locking manual override

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

	Code		Content
\	Serial trans	smission slave station (lamp and	surge suppressor provided as standard)
Serial transmission	T7EN1	Thin drip-proof EtherNet/IP	16 point output (NPN valve output)
	T7ENP1	Thin drip-proof EtherNet/IP	16 point output (PNP valve output)
	T7ENB7	Thin with I/O drip-proof EtherNet/IP	16 point input/16 point output (NPN valve output)
	T7ENPB7	Thin with I/O drip-proof EtherNet/IP	16 point input/16 point output (PNP valve output)

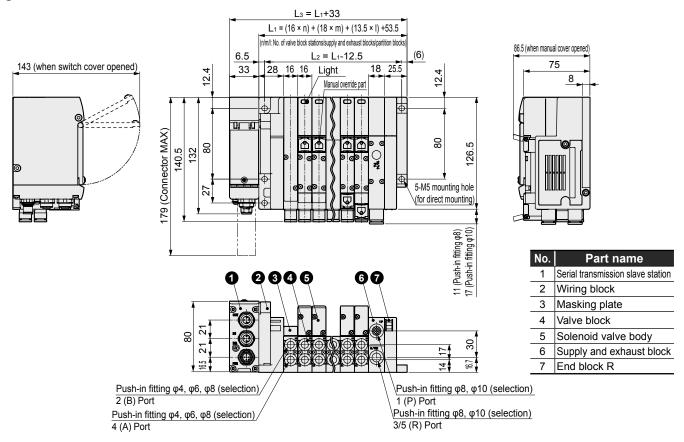
Option

■ Terminal box/connector pin array method: Double wiring

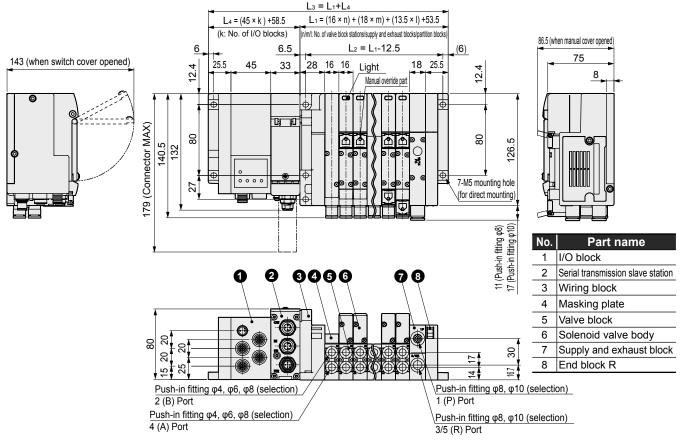
W4G-T7 Series

Dimensions

MW4GB2-T7EN**



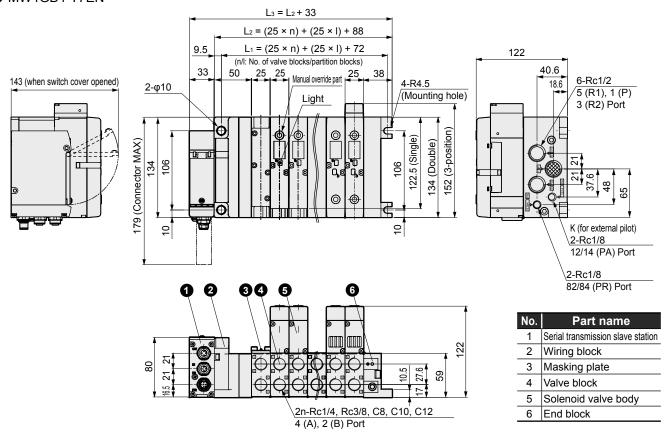
■ MW4GB2-T7EN*B7 (with I/O)



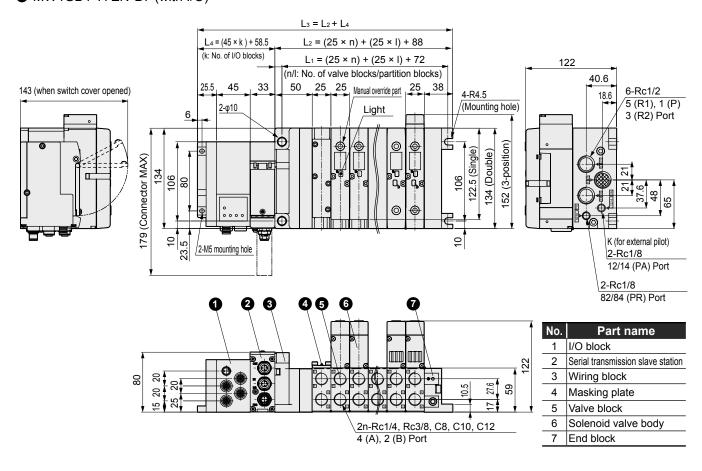
^{*} Refer to "Pneumatic Valves" (No. CB-023SA) for dimensions of other models.

Dimensions

■ MW4GB4-T7EN**



MW4GB4-T7EN*B7 (with I/O)



^{*} Refer to "Pneumatic Valves" (No. CB-023SA) for dimensions of other models.

Technical data

Slave unit wiring

Communication line wiring

Purchase a communication cable or connector that matches the specifications of this product.

For the 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

: Type XS5W-T421-

MC-K Straight OMRON

: No.: 09 45 700 50 [] Straight HARTING

Recommended communication connector and communication cable: No.: 09 45 600 01 🖂 Cable single unit HARTING

: No.: 21 03 281 1405 Assembly M12 connector HARTING

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

Power supply cable wiring

Purchase a power supply cable or connector that matches the specifications of this product.

Recommended M12-loose wire power cable : Type XS2F-D421- Straight OMRON

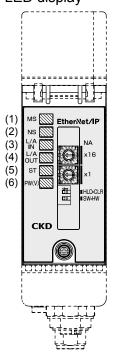
Recommended power supply connector and power supply cable: No.: 21 03 212 2305 Assembly M12 connector HARTING

Electric wire size: AWG22-18, Applicable cable diameter: $\phi\ 6$ to 8

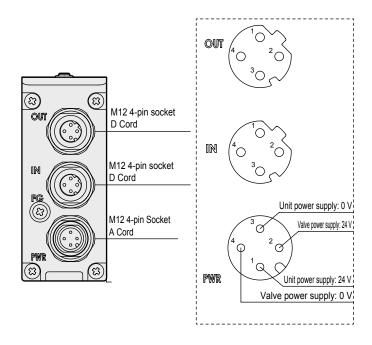
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differs depending on the cable specifications.

LED display



Wiring



LED display description

LED	Name	Display description
(1)	MS	Status of the slave unit related to EtherNet/IP is indicated by the
(1)	IVIO	LED color (green/red) and state (ON/blinking)
(2)	NS	Status of the network related to EtherNet/IP is indicated by the
(2)	INS	LED color (green/red) and state (ON/blinking)
(2)	L/A	Status of the Ethernet port (IN side) is
(3)	IN	shown by LED color (green/yellow)
(4)	L/A	Status of the Ethernet port (OUT side) is
(4)	OUT	shown by LED color (green/yellow)
(5)	ST	Status of the slave unit is indicated by the LED color
(5)	31	(green/yellow) and state (ON/blinking)
(6)	DW (V)	Lights when valve power is ON. Green lamp is ON when normal
(6)	PW (V)	(Cannot be monitored when the unit power is not turned ON)

Communication connector pin array

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

Connector for power supply pin array

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

MW4G 2 (reduced wiring) block manifold specifications sheet

Contact	Qı	Quantity/set(s)							Delivery date /													Date issued / /										
Slip No.										Order No.													Company									
Manifold n	nodel No.																							_	conta	act						
MW	G 2 ()_	[1 _	[-			[Order No.													
⚠ Model N	No. Solenoid position		© F	Ports	size	⊕ F	viring connec	ction	p m	onne in ar netho	ector ray od				Ν	lote	9		No.									s not	taΓ) NIC	rail r	nount.
_		Τ	model No. from Block configurations located in "Pneumatic Valves" (Layout position																	-≨												
Part name (Page)	Model No.	1	2	3	4	5	6	7	8	9	10	11	12	13	Г		T		18	19	20	21	22	23	24	25	26	27	28	29	30	Quantity
	NW4GB2-IN-[]-[]																															
I/O block	NW4GB2-OUT-[]-B																															
Wiring block	NW4G2-T7EN																															
	NW4G[2[0-[Ī		
	NW4G[]2[]0-[]	_																														
	NW4G[]2[]0-[]	T																														
Valve block	NW4G[]2[]0-[]																															
with solenoid valve	NW4G[]2[]0-[]																															
	NW4G 2 0-																															
	NW3G 2 0-																															
	NW3G[2[]0-[]																															
Valve block	NW4G[]2-MPS-[
plate	NW4G[[[]]2-MPD-[[[]]																															
	NW4G2-Q]																														
Supply and	NW4G2-Q[]-[_																														
exhaust block	NW4G2-Q[]-[_	.]																														
	NW4G2-Q	3																														
	Air supply spacer W4G2-P																															
Various	Exhaust spacer W4G2-R-																															
spacers	Spacer type pilot check valve	T																												\vdash		
	W4G2-PC-M Individual air supply compatible spacer with in-stop valve space W4G2-PIS-	er																														
	NW4G2-	t	Ħ				<u> </u>									H	H											\Box		H		
Partition block	NW4G2-	+	+	-												H												\vdash		\vdash		
T attition block	NW4G2-	+																														
End block	NW4G2-																															
	1						1	l Blan	king	g plu	ıg									Sile	ncei	r				T	ag p	late	<u> </u>			
		GV	NP4	-B						GW	P6-E	3				+	s	LW-	Н8						_				- '	Attached part		
				NP8							SWF								.W-I						В							

^{*} Wiring block, I/O block is side wiring only.

4 Block manifold specifications sheet Date issued Quantity set(s) Contact Delivery date Slip No. Order No. Company Contact Manifold model No. Order No MW4G 0-Model No. BSolenoid Port size Wiring Terminal/ Option Station Voltage position method connector No. Note nin array method

When filling in this field, select the model No. from Block configurations located in "Pneumatic Valves" (CB-023SA).

	Part name	Model No.									lr	nstal	latio	n po	sitio	n								Quantitu
	Part name	Woder No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	Quantity
	End block	NW4G4-ER																						
	I/O block	NW4GB2-IN-																						
	I/O block	NW4GB2-OUT-																						
	Wiring block	NW4G4-T7EN																						
		NW4G 4 0																						
		NW4G 4 0																						
	Valve block with solenoid valve	NW4G 4 0																						
		NW4G 4 0-																						
		NW4G 4 0																						
	Valve block with	NW4G 4-MP -																						
	masking plate	NW4G 4-MP -																						
Spacer	Independent air supply spacer	W4G4-P-																						
Spa	Independent exhaust spacer	W4G4-R-																						
	Silencer (resin)	SLW-15A																						
men		GWP8-B				iot i	tho -	num'	oor 1	sf∽	ito t	o ho		d in	tho	a c	atitu.	fiold	lor	tho	riabt			
Attachment	Blanking plug	GWP10-B				LISU	uie r	iuiiil	Jei (un וכ	nts to	o be	use	u in	ine (qual	ility	neio	1 011	the	ignt	•		
		GWP12-B																						

^{*} I/O block is side wiring only.

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^{*} 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.

^{*} For wiring block T7EN (EtherNet/IP), there is no right-handed (R) specification.