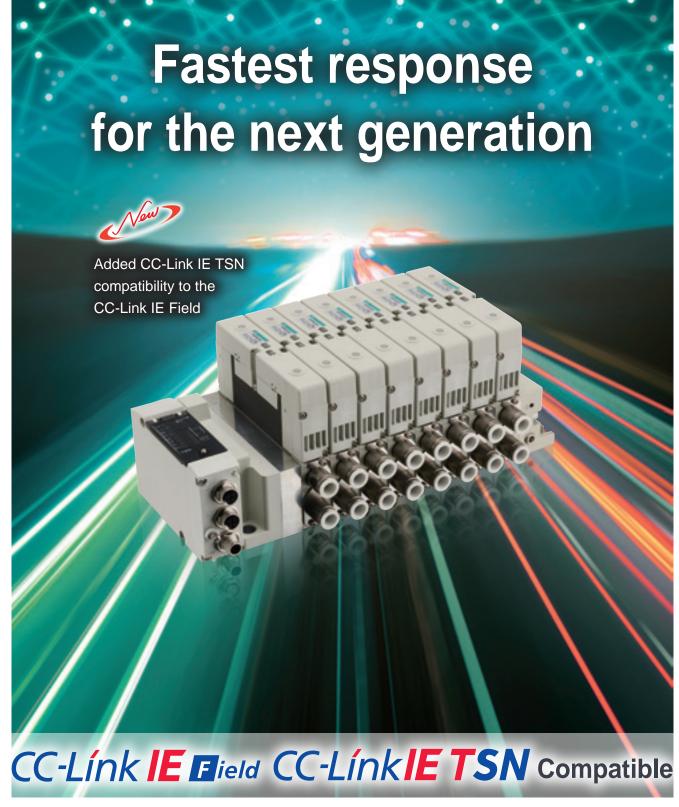


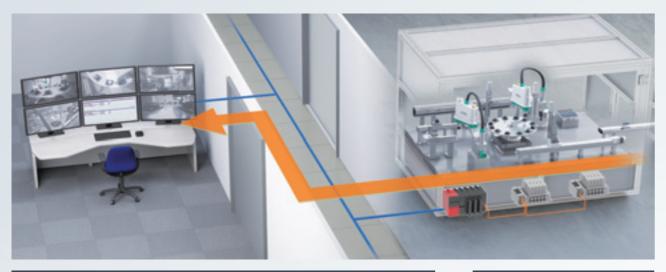
CC-Link IE Field / TSN
Serial Transmission
Device Unit
W4G-T7 Series



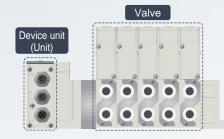


W4G Series Directly connected to CC-Link

Information from production sites monitored through valves



Information monitored/set by device (unit) stations



Time for unit to energize Unit energizing threshold setting

Valve ON cycles

Valve ON cycle threshold setting

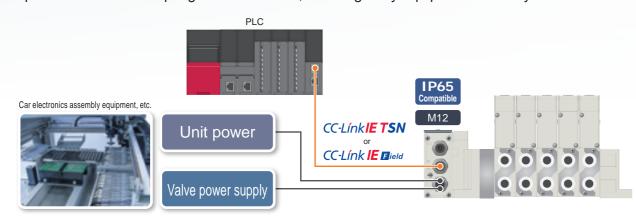
Applications

- Component operation time management and replacement guidelines can be confirmed.
- Depending on the threshold value, preventative maintenance can be conducted by confirming the number of actuator operations, such as the cylinder, etc.

Easy-to-use interface

Separate power supply

Since the unit power supply and valve power supply are separated, the solenoid valve can be replaced without interrupting communication, enabling early equipment recovery.



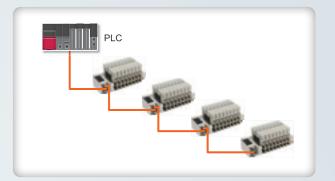
IE Field/CC-Link IE TSN

A wide variety of wiring formats

Network compatible with : CC-Link | Field CC-Link | FTSN

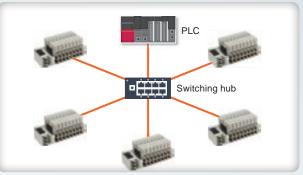
Line wiring

A configuration that connects all components on a single line. A simple configuration that can reduce the total length of the wires.



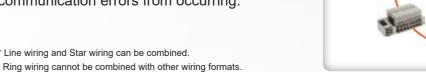
Star wiring

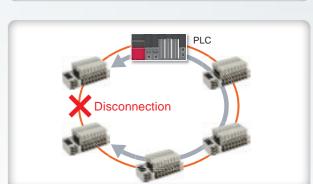
Where equipment is connected radially around an Ethernet switch. Communication can continue with other devices, even if communication errors are encountered with some of the devices.



Ring wiring

Even if one location is disconnected, communication in the reverse direction can be used as a dual circuit to prevent communication errors from occurring.





Fast-link-up compatible

* Line wiring and Star wiring can be combined.

When the communication is reconnected from a disconnected state, it can be connected faster than usual. Improve tact time by reducing boot time on systems using tool changers, etc.

* 1. CC-Link IE TSN does not have a fast link-up function, but the connection is completed in about one second after the power is turned ON.

Network compatible with ": CC-Link | [] ield

Time from power ON to communication connection.





Communication connection time with fast link-up function ON

Various certifications acquired

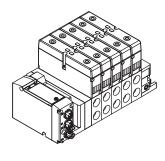
Supports CE marking.

It can also be shipped to the EU nations.



W4G-T7 Series

Specifications



■Valve dedicated device unit

Item		T7EF1	T7EFP1	T7TG1 T7TGP1								
N	letwork name	CC-Link	IE Field	CC-Link IE TSN								
Power	Unit side	24 VDC ±10%										
Voltage	Valve side	24 VDC +10%, -5%										
Consumption	Unit side		100 mA	or less								
Current	Valve side		15 mA or less (excl	uding load current)							
Valve output		NPN output	PNP output	NPN output	PNP output							
N	o. of I/O points	16 poin	t output	16 point output								
LFD	Power	PW, PW(V)										
Indicator	Communication		RUN/ERR, INFO (IN, OUT)	D Link, RUN/ERR, INFO LINK/ACT(IN, OUT)								
Deg	ree of protection	IP65 (IP20 when no connector is connected)										
	out setting during munication error	Hold (hold all points final output)/Clear (clear all points output) *V setting the address during the software setting, output setting is poone point at a time.										
	Station No.	Switch and So	-									
Address setting	Network address	Switch and So	ftware settings		-							
	IP address		-	Switch and Software settings								

Compatibility

MW4GB4, MW4GZ4

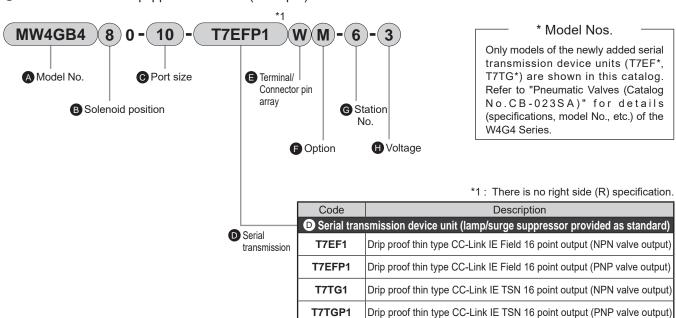
Individual specifications

●MW4G*4

Item		T7EF*1	T7TG*1				
Network name		CC-Link IE Field	CC-Link IE TSN				
Max. station No.	Standard wiring	1	6				
	Double wiring	8	3				
Max. No. of solenoids		16					

How to order

MW4G*4 manifold equipped model No. (example)



[Example of model No.]

AModel No. : 5-port valve base piping

BSolenoid position : Mix manifold CPort size : Rc3/8

OSerial transmission: Drip proof thin type CC-Link IE Field

16 point output (PNP valve output)

ETerminal/connector pin array

: Double wiring

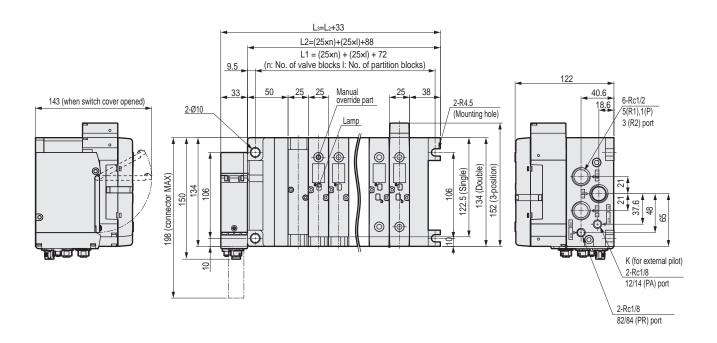
FOptions : Manual override of non-locking

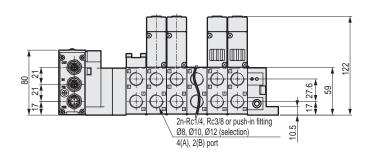
GStation No. : 6 stations
Woltage : 24 VDC

W4G-T7 Series

Dimensions

● MW4GB4-T7EF**, MW4GB4-T7TG**





^{*} For dimensions of other model Nos., (refer to No.CB-023SA) "Pneumatic Valves"

Technical data

Technical data: T7EF* (CC-Link IE Field)

Device 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 Cat.5e or higher for communication cable lines.

Cable with recommended plug : SC-E5EW- Straight Mitsubishi Electric System Services Co., Ltd.

(differs depending on the cable specifications.)

Recommended communication connector : 1411043 (SACC-MSX-8QO) Assembly M12 connector Manufactured by Phoenix Contact

* Compatible with SPEEDCON system

Power cable wiring

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

Recommended M12-loose wire type power cable : Type XS2F-D421-/straight OMRON

Recommended power connector and cable : Part No.: 1424655 (SACC-M12FS-4PL M) Assembly M12 connector Phoenix Contact

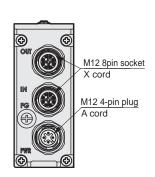
Electric wire size: AWG26-18, applicable cable diameter: Ø4-8

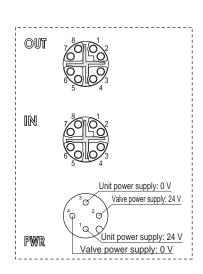
 * \square differs depending on the cable specifications

LED display



Wiring





LED display description

Name		Indicator description							
L ERR		Link status of Ethernet port is indicated by the LED state							
D Link		Communication status of CC-Link IE Field is indicated by the LED state							
RUN / ERR		Status of device unit operation/communication is indicated by the LED state							
INFO		Status of the device unit is indicated by the LED state							
Link/ACT	OUT(P1)	Status of the Ethernet port (OUT side) is indicated by the LED state							
LIIIK/ACT	IN(P2)	Status of the Ethernet port (IN side) is indicated by the LED state							
PW		Indicates the power status of the unit power supply. Lights when power is turned ON.							
PW(V)		Indicates the power status of the valve power supply. Lights when power is turned ON.							
FVV(V)		(Cannot be monitored when the unit power is not turned ON.)							

communication plug pin array

Port	Pin	Signal name	Function									
	1	BI_DA+	Transmit/receive data, positive									
	2 BI_DA-		Transmit/receive data, negative									
	3	BI_DB+	Transmit/receive data, positive									
IN/	4	BI_DC+	Transmit/receive data, positive									
OUT	OUT 5 BI_DC-		Transmit/receive data, negative									
	6	BI_DB-	Transmit/receive data, negative									
7 BI_DD-		BI_DD+	Transmit/receive data, positive									
	8	BI_DD-	Transmit/receive data, negative									

* 1000BASE-T (Cat.5e) compliant

Power supply connector pin array

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

W4G-T7 Series

Technical data: T7TG* (CC-Link IE TSN)

Device 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 Cat.5e or higher for communication cable lines.

 ${\it Cable with recommended plug} \qquad : {\it SC-E5EW-} \square \quad {\it Straight Mitsubishi Electric System Services Co., Ltd.}$

(differs depending on the cable specifications.)

Recommended communication connector : 1411043 (SACC-MSX-8QO) Assembly M12 connector Manufactured by Phoenix Contact

* Compatible with SPEEDCON system

Power cable wiring

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

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

Recommended power connector and cable : Part No.: 1424655 (SACC-M12FS-4PL M) Assembly M12 connector Phoenix Contact

Electric wire size: AWG26-18, applicable cable diameter: Ø4-8

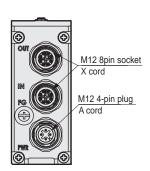
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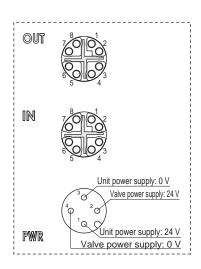
differs depending on the cable specifications

LED display



Wiring





LED display description

Name		Indicator description							
D Link		Communication status of CC-Link IE TSN is indicated by the LED state							
RUN / ERR		Status of device unit operation/communication is indicated by the LED state							
INFO		Status of the device unit is indicated by the LED state							
Link/ACT	OUT(P1)	Status of the Ethernet port (OUT side) is indicated by the LED state							
LINK/ACT	IN(P2)	Status of the Ethernet port (IN side) is indicated by the LED state							
PW		Indicates the power status of the unit power supply. Lights when power is turned ON.							
D\\(\(\)\		Indicates the power status of the valve power supply. Lights when power is turned ON							
PW(V)		(Cannot be monitored when the unit power is not turned ON.)							

communication plug pin array

Port	Pin	Signal name	Function
	1	BI_DA+	Transmit/receive data, positive
	2 BI_DA-		Transmit/receive data, negative
	3	BI_DB+	Transmit/receive data, positive
IN/	4	BI_DC+	Transmit/receive data, positive
OUT	5	BI_DC-	Transmit/receive data, negative
	6	BI_DB-	Transmit/receive data, negative
	7 BI_DD+		Transmit/receive data, positive
	8	BI_DD-	Transmit/receive data, negative

^{* 1000}BASE-T (Cat.5e) compliant

Power supply connector pin array

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

MW4G4Block manifold specifications sheet / Issued Contact Quantity set(s) Delivery date Order No. Company Slip No. Contact: Manifold model No. Order No. **MW4G 4** AModel No. BSolenoid Port size Wiring Terminal/ DOption **G**Station No. **⊕**Voltage Connector position method pin array Note

When inputting, select a model No. from "Block component configuration" for "Pneumatic valves" (No. CB-023SA).

	Dt	Model No.									Ir	nstal	latio	n po	sitio	n									Quantity
	Part name	Model No.		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Quantity
	End block	NW4G4-E																							
	Wiring block	NW4G4-T7																							
		NW4G[4[0 -[]-[
		NW4G[]4[]0 -[]-[]-																							
	Valve block with solenoid valve	NW4G[]4[]0 -[]-[]-																							
		NW4G[]4[]0 -[]-[]-																							
		NW4G[]4[]0 -[]-[]-																							
		NW4G 4-MP																							
	masking plate	NW4G 4-MP																							
pacers	Independent supply spacer	W4G4-P-																							
Spa	Independent exhaust spacer	W4G4-R-																							
(0	Silencer (resin)	SLW-15A																							
Accessories		GWP 8-B				int t				· f · · · ·	ita t			مائد	th a	~	atitu /	fiold		tha i	دا ساد				
cces	Blanking plug	GWP 10-B				LIST	ne r	iumi	ber (un וכ	iiis t	o be	use	u in	uie i	quai	iuty	neid	ON	ırıe i	ignt				
<		GWP 12-B																							

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

^{*} As one side is for air supply and another side is for exhaust, the partition block and partition plug cannot be used.

^{*} There is no right side (R) specification.

Related products

CC-Link IE Field compatible serial transmission slave unit M4G/MN4G-T8 Series

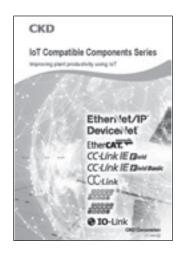
- Two types of I/O points available (16-point output, 32-point output)
- Two output types are available (NPN, PNP output)
- Thin and space saving
- RJ45 connector with high versatility
- Compatible with Fast Link-Up function



IoT Compatible components Series

- Supports various industrial networks to accommodate the creation of IoT at production sites. Contributes to making actuators operating within equipment and sensors visible.
- In addition to electric components such as electric actuators and direct drive motors with high reduced wiring needs, there is a wide lineup of network components with a sensor level that is closer to the workpiece.
- Since the air and electric components are listed by network, it is possible to reduce the man-hours for examining the network inside the equipment.

Catalog No.CC-1466A



CC-Link IE TSN Compatible Serial Transmission Device Unit M4G/MN4G-T8 Series

- Thin, space saving and CC-Link IE TSN compatible
- RJ45 connector with high versatility
- Counter function to check equipment operation time management and Component replacement guidelines (Counter function: Unit power ON time, valve ON cycle)
- Abundant wiring configurations Line wiring, star wiring, ring wiring



3, 5-port pilot operated valve, plug-in block manifold TVG Series

Carbon neutral

- Reduces air leakage and power consumption.
- 0.1W power consumption (Energy saving option)

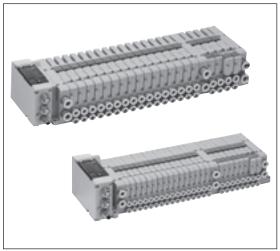
High reliability

- Long service life 120 million cycles (twice that of conventional models) *HP1
- Stable response time due to special treatment of the sliding surface

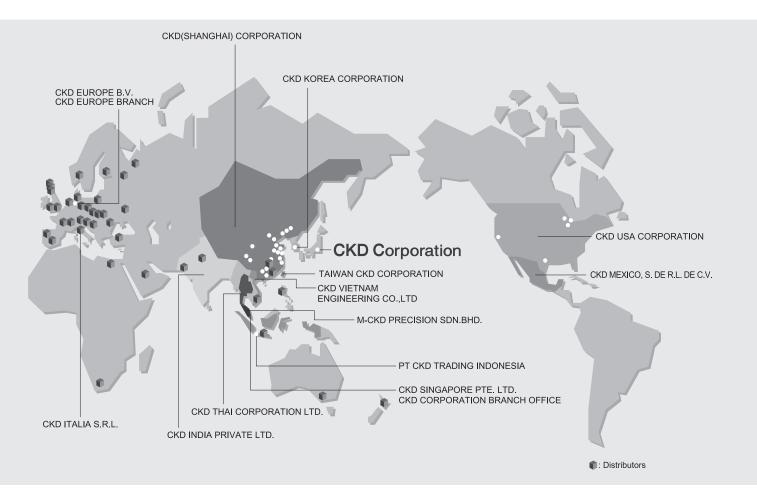
Easy to use

- Thoroughly brushed up maintainability from the customer's point of view
- Compatible with both IP65/IP67
- Industry's first IO-Link Wireless (wireless), compatible with a wide variety of communications
- Compatible with various spacers such as 10 mm width spacer regulator

Catalog No.CC-1595A



WORLD-NETWORK



CKD Corporation

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

- Website Mttps://www.ckd.co.jp/en/
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