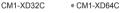


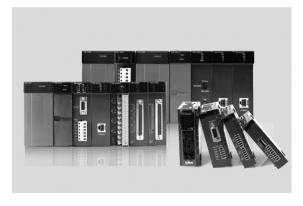


CIMON - PLC PROGRAMMABLE LOGIC CONTROLLER

Digital Input

- CM1-XD16A CM1-XD16B
- CM1-XD16W
- CM1-XD32B
- CM1-XD32C







⚠ Caution

To use this product safely please read the following instructions

- 1. The power must be off whenever you are in contact with the product.
- 2. Read and understand the following technical information about the product.
- 3. For your safety only a qualified electrician should work on this product.

MEMO

General Specifications

Items	Specification			Standards	
Ambient Temp.	-10°C~70°C				-
Storage Temp.	-25°C~80°C				-
Ambient Humidity	5~95%RH, (Non-condensing)				-
Storage Humidity		5~95%RH, (No	on-condensing)		-
	For discontinuous vibration				
	Frequency	Acceleration	Amplitude	Times	IEC 61131-2
	10≤f<57Hz	-	0.075mm		
Vibration	57≤f≤150Hz	9.8m/s ² {1G}	-		
Vibration	Coi	ntionuous vibra	tion	X,Y,Z Each direction.	
	Frequency	Acceleration	Amplitude	10 times	
	10≤f<57Hz	-	0.035mm		
	57≤f≤150Hz	4.9m/s ² {1G}	-		
Shocks	Max. impact acceleration: 147m/S²(15G) Authorized time : 11ms Pulse wave : Sign half-wave pulse (3 times each in X, Y, Z)			IEC 61131-2	
Noise	Square wave impulse noise	± 2,000V			CIMON standard
	Electrostatic discharge	Voltage : 4kV (contact discharging)			IEC 61131-2 IEC 1000-2
	Radiated electromagnetic field noise	27~500 MHz,10V/m			IEC 61131-2 IEC 1000-4-3
	Fast Transient Burst noise	Power module	Digital I/O (24V or more)	Digital I/O(less than 24V) Analog I/O Comm. interface	IEC 61131-2 IEC 1000-4-4
		2 kV	2 kV	0.25 kV	
	Voltage	2 kV/1min		0.5 kV/1min	
Ambient conditions	No corrosive gas or dust				
Cooling type	Natural air cooling				

Perfomance Specifications

Items		DC Input			
		CM1-XD16A	CM1-XD32C	CM1-XD64C	
Input type		SINK and SOURCE			
Rated Input Voltage		DC24V			
Rated Input Current		4mA			
On Voltage/Current		DC19V / 4mA			
Off Voltage/Current		DC11V / 1mA			
Response	$Off \rightarrow On$	5ms or less			
time	$On \to Off$	5ms or less			
No.of Occupied Points		16 points	32 points	64 points	
Common type		8 points / 1COM		32 points / 1COM	
Internal current consumption		60mA	100mA	220mA	
Action Indication		LED is on when input is set			
Insulation Type		Photo-Coupler			

Perfomance Specifications

Items		DC Input			
		CM1-XD16B	CM1-XD32B	CM1-XD16W	
Input type		SINK and SOURCE			
Rated Input Voltage		DC24V		DC100V	
Rated Input Current		4mA			
On Voltage/Current		DC15V / 4mA		DC60V / 4mA	
Off Voltage/Current		DC12V / 1mA		DC40V / 1mA	
Response time	$Off \to On$	5ms or less			
	$On \to Off$	5ms or less			
No.of Occupied Points		16 points	32 points	16 points	
Common type		8 points / 1COM			
Internal current consumption		60mA	100mA		
Action Indication		LED is on when input is set			
Insulation Type		Photo-Coupler			

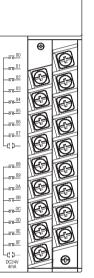
Digital Input Modules

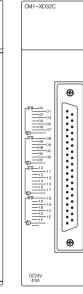
CM1-XD16A CM1-XD16B CM1-XD16W

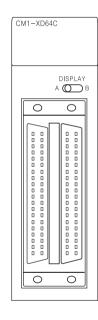
CM1-XD16W

CM1-XD32C CM1-XD32B

CM1-XD64C





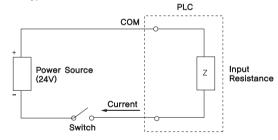


- ► The tightening torque is 6.99 in.lb
- ▶ USE COPPER OR COPPER-CLAD ALUMINUM CONDUTORS
- ► "Class 2, adjacent to voltage rating(30V max.)"

Connection Type

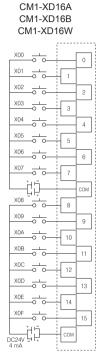
• Sink Type PLC Switch Current Input Power Source (24V) Resistance сом

• Source Type

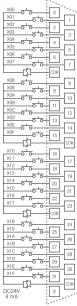


* CM1-XD16A, CM1-XD16W, CM1-XD32C and CM1-XD64C are used for both Sink and Source.

Wiring Diagram



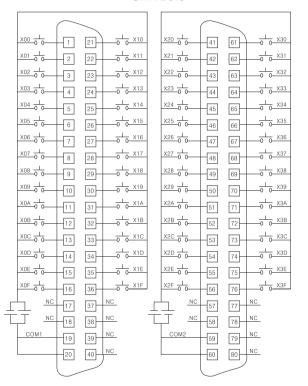
CM1-XD32C CM1-XD32B



- · DC24V 4mA (CM1-XD16A/E)
- · AC100V 4mA (CM1-XD16W)

Wiring Diagram

CM1-XD64C



Safety Precautions

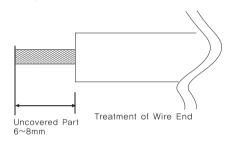
- Use a cable for input signal of module differently from a cable for AC to prevent the influence of surge or induction noise occurring from AC.
- Select a cable considering ambient temperature and allowable current AWG22(0.3mm²) or more is recommended.
- 3) The wiring colse to heat-generating device or material and directly contacted with oil for long time may cause short circuit, breakdown or malfunction.
- In case of wiring together with high-voltage cable or power line, it may cause malfunction or breakdown.
- 5) The tightening torque is 6.99 in.lb.
- 6) Use copper or copper-clad aluminum conductor.

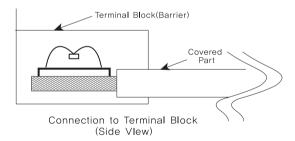
Features and Operation

- 1) All modules are photo-coupler-insulated.
- 2) LED indication enables to make sure the operation of a module.
- 3) Terminal block type and one-touch module loading type lead easy maintenance.
- CM1-XD16A, XD32C and XD64C are DC24V input module. CM1-XD16W is DC 100V input module.

Safety Precautions

When connecting to a terminal block without contact connector, strip the insulation
of the wire back 6mm to 8mm. And take care that the uncovered part of the wire is
pushed all the way into the terminal block.

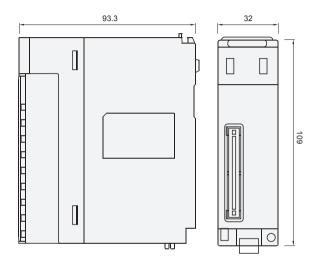




2) In case of a twisted wire, take care that it is not untwisted.

Dimension

(Unit:mm)



Revision History

Version	Date	Content	Page
V1.0	2013-04	New version	-

Product Warranty

January 2014

All Cimon products including hardware, software, and firmware (collectively called "Products") carry a one-year warranty against defects in materials and workmanship beginning from the date of product receipt from seller or its appointed distributor. If a product proves defective in materials and workmanship within one year from the dof purchase, we will replace or repair it. Products returned under warranty after 30 days may be replaced with refurbished or remanufactured goods at Cimon's discretion. Cimon makes no representation or warranty, express or implied, that the operation of the Products will be uninterrupted or error free, or that the functions contained therein will meet or satisfy buyer's intended use or requirements. Repaired or replaced Products provided as a result of this warranty are warranted for a period of six (6) months from the shipment to buyer or the remainder of the original warranty term for that particular product, whichever is longer. Cimon's standard policy is that all customers are responsible for freight charges to Cimon when returning products under the warranty return policy.

This warranty will be void if Products date codes or serial numbers are removed or defaced. Warranties do not apply to products that have been subjected to abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized repair, misuse, neglect, accident, alteration, improper installation or other acts which are not the fault of Cimon, including damage caused in shipping. Our warranty also does not apply to any product that has been damaged by external causes such as fire, flood, sand, dirt, lightning, acts of God, battery leakage, theft, blown fuses, improper use of any electrical source or connection to product not recommended in writing for interconnection by Cimon.

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Product Warranty

To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to are and usually change with time. It is your responsibility to determine which codes should be followed, and to verify that the equipment, installation and operation is in compliance with the latest revision of these codes.

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CIMON CO.,LTD.

H.Q Address: 5F KDT B/D, #48, Beolmal-ro, Bundang-gu, Seongnam-si, Gyeong Gi-do, Korea 463-836

Tel: +82-31-778-3071 **Homepage**: www.cimon.com

USA: 3699 Wilshire Blvd suite 1250 Los Angeles CA90010

Tel: 213 384-8703

Homepage: www.cimon.com

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