CC-Link IE Field Network Adapter, 252 bytes input and 252 bytes output

FnIO S-Series Network Adapter

CC-Línk IE
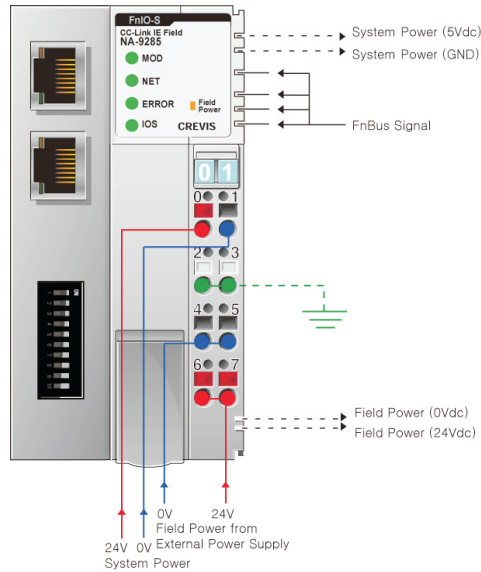
Item	NA-9285
Interface Specification	
Adapter Type	Slave node (CC-Link IE Field Network)
Max. Expansion Module	32slots
Max. Input Data Size	Max. 252 bytes
Max. Output Data Size	Max. 252 bytes
Max. Nodes number	120
Interface Connector	RJ-45 socket * 2pcs
Other Serial Port	RS232 for MODBUS/RTU(Touch Pannel, IOGuide ...)
Serial Configuration (RS232)	No need Node : 1 (Fixed) Baud Rate : 115200 (Fixed) Data bit : 8 (Fixed) Parity bit : No parity (Fixed) Stop bit : 1 (Fixed)
Indicators	5 LEDs 1 Green/Red, Module Status (MOD) 1 Green, Current Running Status (RUN) 1 Green, Error Status (ERROR) 1 Green/Red Expansion I/O Module Statsus (IOS) 1 Green, Field Power Status 2 LEDs (each RJ45 Connector) 1 Green, Active 1 Yellow, Link
Module Location	Left side of S-Series system
Field Power Detection	About 11Vdc
Ethernet Standard	IEEE 802.3ab(1000Base-T)
Cable	Shield copper Cable(Cat.5e)
Network Topology	Star / Line / Ring / Mixture of star and Line
Station class	Intelligent Device station
RX / RY Size	256Bytesl
RWW / RWR Size	1024Bytes
General Specification	
System Power	Supply Voltage : 24Vdc nominal / Supply Voltage Range : 11~28.8Vdc Protection : Output Current Limit (Min 1.5A) / Reverse Polarity Protection
Power Dissipation	140mA typical @ 24Vdc
Current for I/O Module	1.5A @5Vdc
Isolation	System Power to internal logic : Non-isolation / System power I/O driver : Isolation
Field Power	Supply Voltage : 24Vdc nominal / Supply Voltage Range : 11~28.8Vdc
Max. Current Field Power Contact	DC 10A Max.
Weight	165g
Module Size	54mm x 99mm x 70mm
Environment Condition	Refer to " Environment Specification"(page : 1-191)

Network Adapter

Status Indicator LED

MOD : Module Status LED

Status	LED is	To indicate
Not Powered	Off	Not power is supplied to the unit.
Normal, Operational	Green	The unit is operating in normal condition.
Devicce in Standby	Red	The EEPROM parameter is not initialalized yet. Serial Number is zero value (0x00000000)

NET : Network Status LED

Status	LED is	To indicate
Init / No Communication	Red	No Communication / Communication Disconnection
Communicaion	Green	Normal Communication
Communication Error	OFF	Communication Error / Token passing

ERROR : Error Status LED

Status	LED is	To indicate
No Error	Off	
Invalid Configuration	Flashing Red	System Error

IOS LED : Fn-Bus Status LED

| Status	LED is	To indicate
Not Powered No Expansion Module	Off	Device has no expansion module or may not by powered
Do not have I/O	Flash Green	Fn-bus is normal but does not exchanging I/O data. (Passed the expantion module configuration)
Fn-bus Connection, Run Exchanging I/O	Green	Expansion I/O data
Fn-bus Connection Fault during Exchanging I/O	Flashing Red	One or more expansion module occurred in fault state. - Changed expansion module configuration - Fn-bus communication failure.

Field Power LED : Field Power Status LED

Status	LED is	To indicate
Not supplied field power	Off	Not supplied 24Vdc field power, 5Vdc system power.
Supplied field power	Green	Supplied 24Vdc field power, 5Vdc system power.

Indicator states and flash rates LED ON

| LED ON	Constantly ON
LED OFF	Constantly OFF.
LED flickering	Equal ON and OFF times with a frequency of approximately 10 Hz: ON for approximately 50ms and OFF for approximately 50ms.
LED blinking	Equal ON and OFF times with a frequency of approximately 2, 5Hz: ON for approximately 200ms followed by OFF for approximately 200ms.
LED single flash	One short flash (approximately 200ms) followed by a long OFF phase (approximately 1000ms)
LED double flash	A sequence of two short flashes (approximately 200ms), separated by an OFF phase (approximately 200ms). The sequence is finished by a long OFF phase (approximately 1000ms)
LED triple flash	A sequence of three short flashes (approximately 200ms), separated by an OFF phase (approximately 200ms). The sequence is finished by a long OFF phase (approximately 1000ms)

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Electrical Interface

RJ-45 Socket

#1
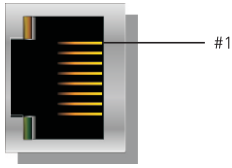
RJ-45	Signal Name	Description
1	TRX1+	TRX1+
2	TRX1-	TRX1-
3	TRX2+	TRX2+
4	TRX2-	TRX2-
5	TRX3+	TRX3+
6	TRX3-	TRX3-
7	TRX4+	TRX4+
8	TRX4-	TRX4-
Case	Shield	

RS232 Port for MODBUS/RTU, Touch Pannel or IO Guide

#1

#4
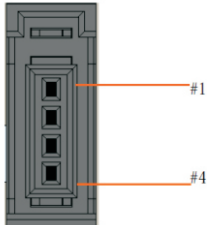
RS232 (37204-62A3-004PL/3M)		
Pin#	Signal Name	Description
1	Reserved	-
2	TXD	RS232 TXD
3	RXD	RS232 RXD
4	GND	RS232 GND

Dip Switch

DIP Pole#	Description	
1	Node ID #0	Min. 1 ~ Max. 120
2	Node ID #1	#default Node ID : 1
3	Node ID #2	
4	Node ID #3	
5	Node ID #4	
6	Node ID #5	
7	Node ID #6	
8	Node ID #7	
9	Reserve	
10	= ON : Firmware upgrade	