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Communication Unit for CC-Link

Related Information

■ General terms and conditions...... F-17 ■LS / DPS-400......P.265~ / P.699~ ■ FX-500 / FX-300P.115~ / P.177~

■ General precautions P.1405





Contributes to wire-saving, construction-saving, traceability, preventive maintenance, and more

To minimize life cycle cost

As the life cycle of equipment shortens year by year, controlling the cost at manufacturing or during usage has become an important subject. Panasonic Electric Works SUNX uses the communication unit for CC-Link SC-GU2-C, which makes the most use of open network for efficient and preventive maintenance as well as wire-saving and construction-saving.

Here is the solution for minimizing cost related to life cycle in equipment.



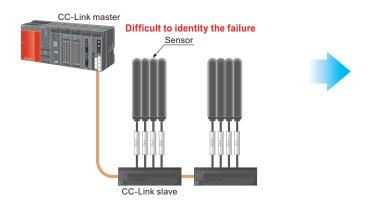
Traceability

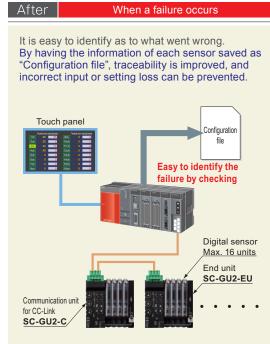
By keeping track of the sensor configurations at equipment start-up, any failure that may occur after equipment delivery can be eliminated in early stages.

.....

Before When a failure occurs

It is hard to identify as to what went wrong. Great numbers of man-hours are taken to check on the setting of each sensor one by one.

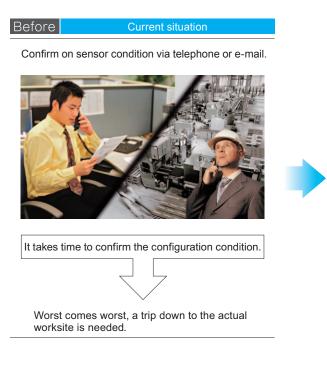


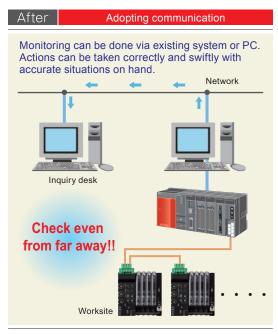


*Maximum of 12 units including the **FX-500** series can communicate optically.

Remote monitoring of equipment

It is possible to check the sensor configurations through open network when a failure occurs in the equipment or production line, so that the on-site man-hours taken can be kept to the minimum.





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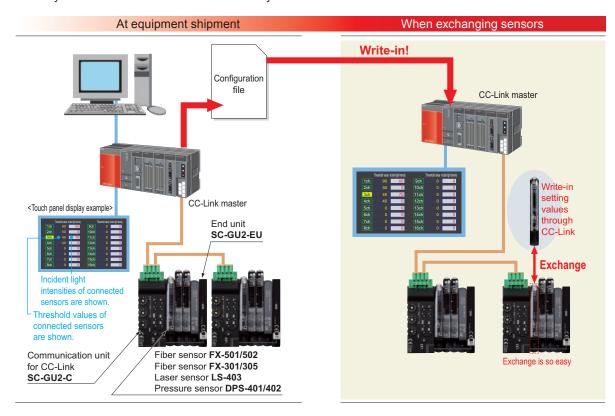
Upper Communication Unit MIL Connector Plug-in

SC-GU2-C

SC-GU1-485

Highly efficient maintenance

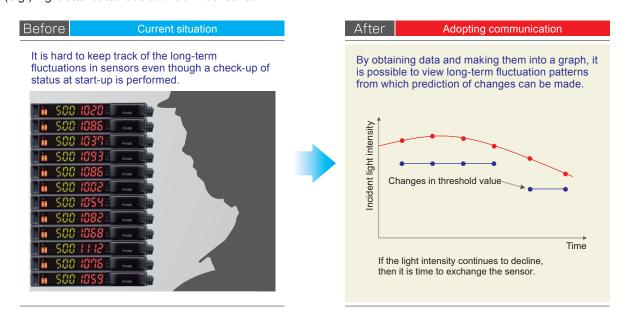
By having the configurations saved as "Configuration file" before equipment shipment, later on when it comes to exchanging the sensors, the configurations can be simply written in to CC-Link. Also, exchanges can be done easily with connection connectors without any extra tools.



Preventive maintenance

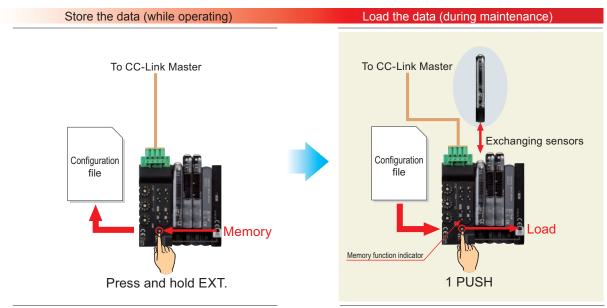
Take in digital data such as incident light intensity or pressure value of sensors and graph them out for preventive maintenance.

(e.g.) Light attenuated due to dirt on fiber sensor.



Easy maintenance with the memory function

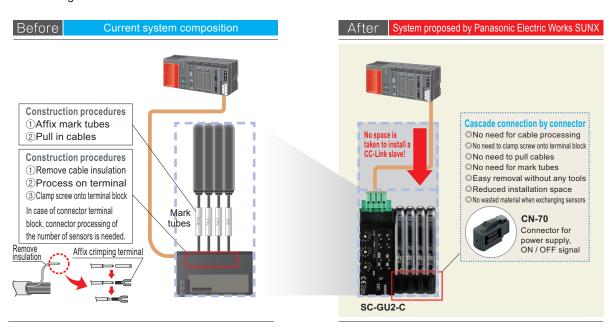
Settings of the connected digital sensors are stored in the **SC-GU2-C**. Setting data can be transmitted and restored to original status by just pressing the "Setting extension (EXT.)" key. Maintenance such as sensor replacement, etc., can be performed smoothly. It will also automatically check the settings stored in the **SC-GU2-C** and the settings for the digital sensor when the power is turned on. When the setting is different, memory function indicator will flash, and warning signal can be sent, preventing the equipment operating with settings changed.



*Memory function can be utilized with CC-Link communication by setting the flag in the remote register.

Reduction of wiring, construction and space

Space for installing a CC-Link slave is eliminated. Cascade connection is simply done by connectors so that the time taken for wiring and construction can be cut down.



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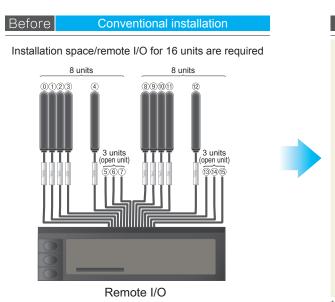
Upper Communication Unit MIL Connector Plug-in

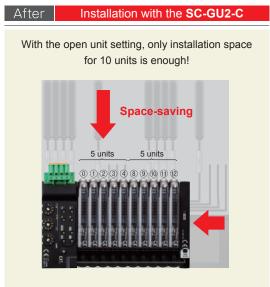
> SC-GU2-C SC-GU1-485

Space saving with open unit setting

When you like to perform the process for every 1 byte (sensor input: For 8 units) to make the data control clear, of if you are planning to add sensors later, it is possible to set the open unit (sensor). Also with the conventional remote I/O, you needed installation space for 16 units, but this can save the installation space to minimum.

Example: To divide 16 units to every 8 units, and create open unit for 3 units each

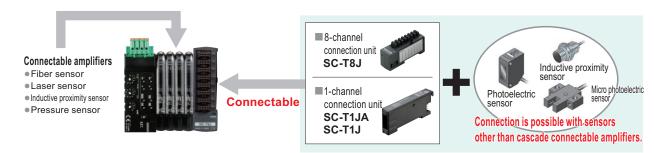




*It will be set to open unit by setting the RX to "0" and RY to "1" on the remote register with same address.

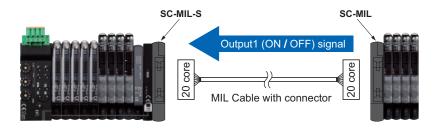
Make use of spare channels

For sensors that cannot connect in cascade, connect a connector input extension unit **SC-T1JA**, **SC-T1J**, **SC-T8J** to **SC-GU2-C** to enable cascade connection to save more wiring. **SC-T1JA** can also connect with sensors of analog input (1 to 5 V).

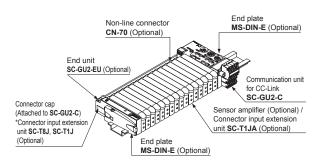


Distributed installation is possible

Distributed installation of sensors is possible by using the plug-in sensor separate unit **SC-MIL-S** / sensor main unit **SC-MIL**. (However, only input for Output 1 (ON/OFF) can communicate. (Output 2 cannot be input.) Also, optical communication of current data and threshold value setting etc. are not possible.)



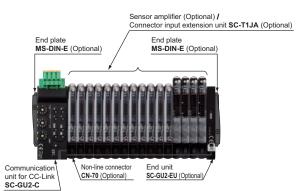
SYSTEM COMPOSITION



*The **SC-T8J/T1J** is positioned on the outside of the end unit.

Transmits ON / OFF signal only.

Does not respond to data communication.



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Communication units

Designation	Appearance	Model No.	Description
Communication unit for CC-Link		SC-GU2-C	This is a communication unit, which can convert the output signal of a sensor amplifier into communication data for CC-Link.
End unit		SC-GU2-EU	This end unit can change and check the settings of sensor amplifiers that allow optical communication and monitor operation status.

Connector input extension units

De	esignation	Appearance	Model No.	Description		
input extension unit	Analog communication unit SC-T1JA		SC-T1JA	This product can be connected with input devices such as sensors and switches. Also, the product can monitor by using 1 to 5 V analog voltage output, which is outputted by the input devices. *When communicating the converted value from analog to digital, the end unit SC-GU2-EU should be used.		
1-channel connector input extension			SC-T1J	Allows the connection of input device, such as sensor or switch. Incorporates a power indicator and an input signal indicator (1 ch).		
ii e	i-channel connector nput extension init		SC-T8J	Allows the connection of input devices, such as sensors or switches. Incorporates a power indicator and input signal indicators (8 ch).		

Plug-in sensor units (MIL connectors)

Designation	Appearance	Model No.	Description
Plug-in sensor separate unit	Company of the Compan	SC-MIL-S	Distributed installation by the MIL connector is possible by combining the plug-in
Plug-in sensor main unit		SC-MIL	sensor separate unit SC-MIL-S and the plug-in sensor main unit SC-MIL.

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SC-GU1-485

Optical communication compatible amplifier

	Туре		Appearance	Model No.	Combined head	Description
	FX-500	Standard type	ayl	FX-501		NPN open-collector transistor
er sensc	series Two outputs type	Two outputs type	881	FX-502	FT-o	NPN open-collector transistor two outputs (Note)
igital fib	FX-300 type series High	Standard type		FX-301	FD-a	NPN open-collector transistor
Ω		High functionality type	NAV	FX-305		NPN open-collector transistor two outputs (Note)
Digital laser sensor		ensor	NAVI English (c	LS-403	LS-Ha	NPN open-collector transistor
Digital pr		For combined pressure / negative pressure	1	DPS-401	DPH-101□ DPH-103□	NPN open-collector
sen	ssure	For positive pressure	NAVI am in the second of the s	DPS-402	DPH-102	transistor two outputs (Note)

Note: To receive the output signal from the Output 2, it is required to perform optical communication by simultaneously using the end unit SC-GU2-EU.

Options

Designation	Appearance	Model No.	Description
Non-line connector		CN-70	This one-touch connector is used to connect the following devices to SC-GU2-C: The FX-500/300/311/400 fiber sensor, the LS-401/403 laser sensor, digital pressure sensor DPS-401/402, the GA-311 compact inductive proximity sensor, etc.
End plate (Note)		MS-DIN-E	After installing SC-GU2-C, sensor amplifier, SC-GU2-EU etc. in cascade on a DIN rail, these end plates clamp the units into place on both sides. Be sure to use this product. Two pcs. per set

Note: Commercially available DIN rail stopper can also be used.

Others

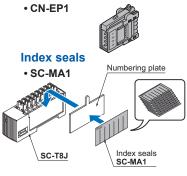
Designation	Appearance	Model No.	Description		
	SL-CP1 (White) 10 pcs. per set		For 0.08 to 0.2 mm ² (Conductor cross-section area) Wire dia.: ø0.7 to ø1.2 mm ø0.028 to ø0.047 in		
4-pin type snap male connector		SL-CP2 (Black) 10 pcs. per set	For 0.3 mm ² (Conductor cross-section area) Wire dia.: ø1.1 to ø1.6 mm ø0.043 to ø 0.063 in	Snap male connectors are utilized to connect input devices to both the 1-channel connector input unit SC-T1J and the 8-channel connector input unit SC-T8J. SC-T8J. SC-T1J includes one SL-CP1.	
		SL-CP3 (Greenish blue) 10 pcs. per set	For 0.5 mm ² (Conductor cross-section area) Wire dia.: ø1.7 to ø2.5 mm ø0.067 to ø0.098 in		
Male / female connector exclusive pliers		SL-JPC	Snap female connector and snap male connector (SL-CP1, CP2) can be connec in one grip.		
SL-CP3 exclusive pliers	1 I I I I I I I I I I I I I I I I I I I		4-pin type snap male connector (SL-CP3) car	n be connected in one grip.	

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Others

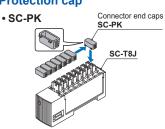
Designation	Model No.	Description		
Input connector	CN-EP1 5 pcs. per set	For 1 ch connector input unit (analog communication unit) SC-T1JA	Input connector is utilized to connect input devices to the 1-channel connector input unit (analog communication unit) SC-T1JA. SC-T1JA includes one CN-EP1.	
Index seals	SC-MA1 10 sheets per set	For 8 ch connector	An identifier for each connector should be marked on each seal, then the seals should be applied to the numbering plates attached to the 8-channel connector input unit SC-T8J. SC-T8J includes one SC-MA1.	
Protection cap	SC-PK 8 pcs. per set	input unit SC-T8J	Connector end caps are utilized to protect the unconnected ends of connectors, for the 8-channel connector input unit.	

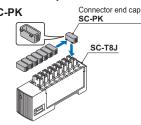
Input connector



Protection cap

1-channel connector input extension unit





SPECIFICATIONS

Communication unit for CC-Link

Designation		Communication unit for CC-Link					
Item Model No.	SC-GU2-C						
Applicable sensor amplifier (Note 2)			type) that can co		ne connector CN-70		
Number of connectable units					per SC-GU2-C municate optically)		
Supply voltage	2	24 V DC +10 -15	% Ripple P	-P 10 % or I	less		
Current consumption	110 mA or le	ss (excluding	connected s	ensor amplifi	ers / input units)		
Allowable passing current	Wire-savir	ng connector 2	A (Note 3), su	apply connecto	or 6 A (Note 4)		
Communication method		CC-Link Ver.1.10					
Number of occupied station		Switchable 1 or 4 station					
Baud rate	10 Mbps	5 Mbps	2.5 Mbps	625 kbps	156 kbps		
Total extension length	100 m 328.084 ft	150 m 492.126 ft	200 m 656.168 ft	600 m 1968.504 ft	1,200 m 3937.008 ft		
Communication cable	Specific	ed cable (tw	ist pair cabl	e with shield	d) (Note 5)		
Station No. setting		1 to 64 (0	and 65 or	more: Error)		
Remote station type		Rer	note device	station			
Ambient temperature	-10 to $+55$ °C $+14$ to $+131$ °F (If 4 to 7 units are connected in cascade: -10 to $+50$ °C $+14$ to $+122$ °F, if 8 to 16 units are connected in cascade : -10 to $+45$ °C $+14$ to $+113$ °F) (No dew condensation or icing allowed), Storage: -20 to $+70$ °C -4 to $+158$ °F						
Ambient humidity	35 to 85 % RH, Storage: 35 to 85 % RH						
Material	Enclosure: Heat-resistant ABS, Connector cap: Silicone rubber						
Weight	Net wei	ght: 60 g ap	prox., Gross	weight: 10	0 g approx.		
Accessory		Cor	nector cap:	2 pcs.			

Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +23 °C +73.4 °F.

- 2) Only the below models respond to data communication. FX-501/502, FX-301/305, LS-403, DPS-401/402
- 3) Be sure to check that total current consumption of sensor amplifiers connected in cascade does not exceed allowable passing current.
- 4) In case of supplying power to other devices, be sure to set the current less than allowable passing current.
- 5) Use the CC-Link-specified cable.

1-channel connector input extension unit

Designation	Analog communication unit				
Item Model No.	SC-T1JA				
Supply voltage	12 to 24 V DC ±10 % Ripple P-P 10 % or less (By power supplied from the SC-GU2-C .)				
Current consumption (Note 2)	Max. 25 mA or less (when all indicators light up)				
Analog voltage input	Input voltage range: 1 to 5 V DC Input impedance: 200 kΩ approx.				
Communication data (Note 3)	Analog ← → Communication data • Communication data: 0 to 4,000 digits (in the range of 1 to 5 V) • Zero point: Within 0 digit ±0.5 % F.S. • Span: Within 4,000 digits ±0.5 % F.S. • Linearity: Within ±0.5 % F.S.				
Input	Connectable device: Output type of NPN open-collector transistor Supply current for input device: 100 mA or less Input impedance: 17 k Ω approx. Operating voltage: 17 V or more at ON voltage (between input and +V at 24 V 4 V or less at OFF voltage (between input and +V at 24 V 4 V or less at OFF voltage).				
Output	NPN open-collector transistor • Max. sink current: 50 mA • Applied voltage: 30 V DC or less • Residual voltage: 1.5 V or less (at 50 mA sink current)				
Power indicator	Green LED (lights up when the power is ON)				
Input indicator	Green LED (lights up when NPN input is ON)				
Ambient temperature	-10 to +55 °C +14 to +131 °F (If 4 to 7 units are connected in cascade: -10 to +50 °C +14 to +122 °F, if 8 to 16 units are connected in cascade: -10 to +45 °C +14 to +113 °F) (No dew condensation or icing allowed), Storage: -10 to +70 °C +14 to +158 °F				
Ambient humidity	35 to 85 % RH, Storage: 35 to 85 %				
Temperature characteristics	Within ±1 % F.S. (at +25 °C +77 °F reference)				
Material	F				
Material	Enclosure: Heat-resistant ABS				
Weight	Net weight: 20 g approx., Gross weight: 40 g approx.				

specified precisely, the conditions used were an ambient temperature of +23 °C +73.4 °F.

2) The current consumption and input current

- of output device connected are not included.
- 3) The relationship between communication data and input voltage is as described in the right figure.



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MIL Connector Plug-in

SC-GU1-485

SPECIFICATIONS

End unit

	Designation	End unit		
Item	Model No.	SC-GU2-EU		
Supply voltage		12 to 24 V DC ¹⁰ ₋₁₅ % Ripple P-P 10 % or less (By power supplied from the SC-GU2-C)		
Current consur	nption	10 mA or less		
Signal channel No.		(Not occupy the signal channel No.)		
Power indicato	r	Green LED (lights up when the power is ON)		
	Туре	0.38 mm² single shielded cable [Heat resistant PVC (Black)]		
Cable	Sheath outer diameter	ø1.46 mm ø0.057 in		
Cable	Length	30 to 180 mm 1.181 to 7.087 in adjustable by cable length adjust button		
	Tensile strength	Main body side: 20 N (Note 2)		
Material		Enclosure: Heat-resistant ABS		
Weight		Net weight: 20 g approx., Gross weight: 40 g approx.		

Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +23 °C +73.4 °F.

2) For length adjustment of cable with communication connector, pull out the cable slowly. To remove the cable with communication connector from SC-GU2-C, hold the connector and remove it.

Connector input extension units

Designat	on 1-channel connector input unit	8-channel connector input unit			
Item Model I	o. SC-T1J	SC-T8J			
Supply voltage	12 to 24 V DC ±10 % (By powe	r supplied from the SC-GU2-C)			
Current consumption (Note	2) 20 mA or less (when all indicators light up)	60 mA or less (when all indicators light up)			
Signal channel No.	1 input	8 inputs (Note 3)			
Connectable device	NPN open-collector, or DC 2-wire output type sensor, or switch etc.	NPN open-collector output sensor or switch etc. (Note 4)			
Supply current for units (Note 5	100 mA or less	800 mA or less (At a total of 8 channels)			
Power indicator	Green LED (Lights up when the power is ON)				
Input indicator	Green LED [SC-T1J: 1 No., SC-T8J: 8 Nos.] (Lights up when each channel input is ON)				
Ambient temperature	-10 to +45 °C +14 to +113 °F (No dew condensation or icing allowed), Storage: -20 to +70 °C -4 to +158 °F				
Ambient humidity	35 to 85 % RH, Stor	35 to 85 % RH, Storage: 35 to 85 % RH			
Material	Enclosure: Hea	t-resistant ABS			
Net weight	10 g approx.	40 g approx.			
Accessories	SL-CP1 (Snap male connector): 1 pc.	Index seal : 1 pc.			

Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +20 °C +68 °F.

- 2) The current consumption and input current of the input unit connected are not included.
- 3) The signal for 8 channels is occupied regardless of number of input units connected.
- 4) DC 2-wire type sensor and switch etc. cannot be connected (SC-T8J only).
- 5) Set the maximum current passing through input / output line to 50 mA or less.

Plug-in Sensor units (MIL connectors)

Туре	Separate unit	Main unit		
Item Model No.	SC-MIL-S	SC-MIL		
Supply voltage	By power supplied from the SC-GU2-C	12 to 24 V DC ±10 % (Note 2) By power supplied from the SC-GU2-C		
All and the second	1 A or less	2 A or less		
Allowable through current (Note 3)	(Same as maximum permissible current consumption of all units connected to SC-MIL-S .)	(Same as maximum permissible current consumption of all units connected to SC-MIL .)		
Signal channel No.	(Not occupy the signal channel No.)			
Max. distance between units	10 m 32.808 ft or less (the distance between SC-MIL and PLC and that between SC-MIL and SC-MIL-S put together)			
Ambient temperature	-10 to +45 °C +14 to +113 °F (No dew condensation of	5 °C +14 to +113 °F (No dew condensation or icing allowed), Storage: -20 to +70 °C -4 to +158 °F		
Ambient humidity 35 to 85 % RH, Storage: 35 to 85		rage: 35 to 85 % RH		
Material	Enclosure: Heat-resistant ABS			
Weight	Net weight: 20 g approx.	Net weight: 25 g approx.		
Accessory				

- Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +20 °C +68 °F.
 - 2) The plug-in sensor main unit SC-MIL incorporates a cable lead-out connector in addition to the MIL connector, which allows to receive the supply voltage from the separate power supply.
 - 3) When either the power supply device's allowable amount of current or the connecting cable's allowable amount of current is smaller than the allowable current passage value, match it with the smallest specification.

PRECAUTIONS FOR PROPER USE

Refer to General precautions.



 Never use this product in a device for personnel protection.

· In case of using sensing devices for personnel protection, use products which meet laws and standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.

DIMENSIONS (Unit: mm in)

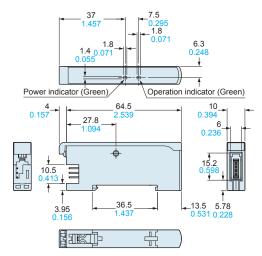
The CAD data in the dimensions can be downloaded from our website

49.3

86

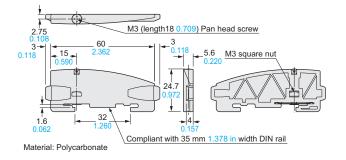
SC-GU2-C Communication unit for CC-Link CC-Link setting switch "(*)(*)(*) Number of statio selection key Communication Connection connector Operation indicators 30.5 22.1 16.3 86

SC-T1JA 1-channel connector input extension unit



MS-DIN-E

End plates (Optional)



SC-GU2-EU

CN-70

Operation indicator (Green)

10_

2 65

3 95

16.3

End unit

Cable length adjust button

Wire-saving

connector

Non-line connector (Optional)

15 (19.57)

8.8

Communication

connector attached cable

PRESSURE / FLOW SENSORS

MEASURE-MENT SENSORS

LASER MARKERS

PLC / TERMINALS

HUMAN MACHINE INTERFACES VISUALIZATION COMPONENTS

MACHINE VISION SYSTEMS

MIL Connector Plug-in

SC-GU1-485

PHOTO-ELECTRIC SENSORS

LIGHT CURTAINS

PARTICULAR USE SENSORS

SENSOR OPTIONS

STATIC CONTROL DEVICES

ENDOSCOPE

FA COMPONENTS