Panasonic

NEW

IO-Link Master Unit

for CC-Link IE Field

SC-LG2-CEF-P

CE

IO-Link Master Unit for CC-Link IE Field Newly Launched!

Receive sensor information on a gigabit network!

CC-Link IE Field compatible -

Can be used as an intelligent device station.

Up to 8 IO-Link compatible devices and IO-Link non-compatible devices (PNP output) can be connected------

As an IO-Link master, the unit supports up to 8 connection channels.

Simple wire-press connector (e-CON) enables easy connection



Available as an option (sold separately).

CC-Link Partner Association recommended cable (Please purchase separately.)



Indicators are lit in this image.

SC-LG2-CEF-P

➢ IO-Link device settings can be set at once from the host tool

Settings can be configured at once from the host tool (SC-LG-CEF Configuration Tool*) via a Mitsubishi Electric Corporation PLC.

Device monitor screen

24 + 1400 - 14100 - 14400										= ×
KAD OF F		Monitor	Set	30	Diegnos				Informat	ton.
	CC CON E Field	Contra cute 100 V [me] Operator P III II	Analog Denn Pressare Scale	> >	Upper 101 127	Lower -111 -128	Custom 0 0	Dom Dom Information Notification Control Output(DO)		
3 NC MitConstant		50							- Person Som Character Relations Control Output200 - Cuttor 1	
4 NC NECESTRA		0			-	-	-		- Calena	
6 NC Secondar										
7 NC subsected		400								
8 NC Inderedat		011								

■Equipped with a device monitor screen for convenient confirmation and a language selection function SC-LG-CEF Configuration Tool* is a software application program for Windows® that can acquire measurement data from the IO-Link Master Unit for CC-Link IE Field SC-LG2-CEF-P and devices connected to it, as well as set and read various parameters.

* SC-LG-CEF Configuration Tool can be downloaded from our website. * Windows is a registered trademark or trademark of Microsoft Corporation in the U.S. and/or other countries.

Small Step IoT Starts with IO-Link

Smart collection of on-site sensor information

Collecting on-site sensor-level information is essential to making the manufacturing floor "visible" and IoT enabled. Panasonic provides an information collection solution that is easy, low-cost, and maintains information quality. Using Panasonic's self-monitoring sensors and IO-Link master, incident light intensity, pressure values, and distance measurement values can be sent as digital data with certitude to a host controller.

The sensors diagnose their own state and inform you of the result, making it easy to identify the cause of problems. By reducing the amount of data collected, you can alleviate the labor spent organizing and analyzing data.

Configuration examples of IO-Link compatible devices in CC-Link IE Field



*1 Can be connected to any manufacturer's IO-Link master that supports various field networks.



*1 Can be connected to any manufacturer's IO-Link master that supports various field networks.

*2 Smartclick is a registered trademark of Omron Corporation.

*3 Wire-saving Y-shaped connector SFB-WY1 is an option of the SF4D series.

ORDER GUIDE

IO-link master	unit	Simple v the IO-L	wire-press connector (e-CON) is not included with Link master unit. Please purchase separately.			
Type Model N		el No.	Description			
IO-Link master unit for CC-Link IE Field CC-Link IE Field IO-Link master	SC-LG2	2-CEF-P	By connecting this to an IO-Link compatible device, you can acquire measurement data and set and acquire parameters from CC-Link IE Field communication. You can also connect this to an IO-Link non-compatible device (PNP output) that has digital input / output functions (ON/OFF signal). You can acquire the input state of the ON/OFF signal of the IO-Link non-compatible device from CC-Link IE Field communication, and output the ON/OFF signal to the IO-Link non-compatible device.			

IO-Link compatible devices (Self-monitoring sensors)

	Туре	Model No.	Control output		
Digital fiber sensor FX-550L series	Discrete v	wire type	FX-551L3-P-C2		
Dual display digital pressure sensor [For gas] DP-100L series © IO-Link	Discrete wire type	For low pressure -100.0 to +100.0 kPa	DP-101ZL3-M-P	PNP open-collector transistor	
		For high pressure -0.100 to +1.000 MPa	DP-102ZL3-M-P		
CMOS type micro laser distance	Discrete wire type	Measurement center 30 mm 1.181 in type	HG-C1030L3-P		
sensor HG-C1000L series		Measurement center 50 mm 1.969 in type	HG-C1050L3-P		
		Measurement center 100 mm 3.937 in type	HG-C1100L3-P		
		Measurement center 200 mm 7.874 in type	HG-C1200L3-P		
Ø 10-LINK		Measurement center 400 mm 15.748 in type	HG-C1400L3-P		

Note: For details on each sensor, refer to the self-monitoring sensor catalog or our website.

OPTIONS

Simple wire-press connector (e-CON)

CN-EP2 5 pcs. per set Applicable wire:



0.1 to 0.5 mm² (AWG27 to 20) · Wire diameter without jacket: 89 to ø0.045 in ø1.0 to ø1.15 mm ø0. Plug housing color: Yellow

· CN-EP3 5 pcs. per set



· Applicable wire: 0.1 to 0.5 mm² (AWG27 to 20) Wire diameter without jacket: ø0.6 to ø0.9 mm ø0.024 to ø0.035 in Plug housing color: Orange

Recommended simple wirepress connector (e-CON)*

Tyco Electronics Japan G.K. Model: 1473562-4

IO-Link communication unit for SF4D series · SFD-WL3



You can remotely acquire and manage light light incidence margin data and individual beam axis data! * For details, refer to our

website.

Recommended power connector*

PHOENIX CONTACT Product code: Equivalent to MC1.5/5-ST-3.5AU

* Contact the manufacturer for details of the recommended products.

PRECAUTIONS FOR PROPER USE

· Never use this product as a sensing 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

User's Manuals

"SC-LG2-CEF-P User's Manual" and "SC-LG-CEF Configuration Tool User's Manual" are available. These can be downloaded from our website.

SPECIFICATIONS

Model No.		SC-LG2-CEF-P							
Re	gulatory compliance	EMC Directive, RoHS Directive							
Supply voltage		24 V DC ±10 %, Ripple P-P 10 % or less							
	Current consumption	200 mA or less							
Id specifications	Communication method	CC-Link IE Field							
	Remote station type	Intelligent device station							
	Network number setting	1 to 239 (decimal) [1 to EF (hex)] (0 and 240 or more: Error)							
	Cyclic transmission (Maximum number of link points per station)	RX/RY: Maximum 112 points (112 bits) / Maximum 112 points (112 bit RWr/RWw: Maximum 132 points (132 words) / Maximum 132 points (132 words)	m 112 points (112 bits) / Maximum 112 points (112 bits) imum 132 points (132 words) / Maximum 132 points						
	Transient transmission	For server function only, message size: 2 kbytes (maximum)							
	Number of ports	1000BASE-T Ethernet port (RJ45) × 2							
	Station number setting	1 to 120 (decimal)(0 and 121 or more: Error)							
Еie	Communication speed	1 Gbps							
는 문	Communication cable	Category 5e or higher Ethernet cables that satisfy the 1000BASE-T standard (Double shielded twisted pair cable or straight cable)(Note 1)							
Ē	Transmission line type	Line type, star type (line/star mixed type also possible), ring type							
Ö	Maximum distance between stations	100 m 328.084 ft							
	Maximum number of stations that can be connected	121 (1 master station, 120 slave stations)							
	Maximum number of stages of cascade connection	20							
	Current consumption	150 mA or less (excluding the current consumption of connected IO-Link devices)							
	Allowable passing current	3 A or less (Note 2)							
	Communication method	IO-Link V1.0 / V1.1							
ŝ	Number of ports	e-CON compliant connector port for IO-Link × 8							
ation	Communication speed	COM1 (4.8 kbps), COM2 (38.4 kbps), COM3 (230.4 kbps) Automatically set by IO-Link device							
cific	Current supplied to device (L+, L-)	Maximum 200 mA per port (Note 2)							
be	Digital I/O (C/Q) (Note 2)(Note 3)	IO-Link mode Compliance with the IO-Link standard							
× s		SIO mode During input setting PNP input (Sink current: Max. 15 mA)	/						
÷	(····)(···· ·)	During output setting Push-pull output (Drive capacity: Max.100 m	ıA)						
0	Digital input (DI) (Note 2)(Note 3)	PNP input (Sink current: Max. 15 mA)							
	Communication cable	Unshielded							
	Maximum cable length	20 m 65.617 ft							
	IO-Link connector	e-CON compliant connector (4-pin type)(Note 4)							
nce	Ambient temperature	-10 to +55 °C +14 to +131 °F (No dew condensation or icing allowed), Storage: -20 to +70 °C -4 to +158 °F							
ista	Ambient humidity	35 to 85 % RH, Storage: 35 to 85 % RH							
al res	Voltage withstandability	1,000 V AC for one min. between all supply terminals connected together and enclosure							
Iment	Insulation resistance	$20\ \text{M}\Omega$ or more with 250 V DC megger between all supply terminals connected together and enclosure							
Inviro	Vibration resistance	10 to 150 Hz frequency, 0.75 mm 0.03 in double amplitude (10 to 58 Hz), maximum acceleration 49 m/s ² , (58 to 150 Hz) in X, Y, and Z directions for two hours each							
-	Shock resistance	98 m/s ² (10 G approx.) in X, Y, and Z directions three times each							
Grounding method		Power supply connector is equipped with a frame ground (F.G.) RJ45 connector shield: Directly connected to ground terminal Internal circuit: C coupling, Casing: Floating type							
Limit to the number of flash memory save operations		100,000 (Note 5)							
Material		Case: Polycarbonate							
Weight		Net weight: 210 g approx Gross weight: 270 g approx							

Accessory Power supply connector: 1 pc. Notes: 1) Use a cable recommended by CC-Link Partner Association.

(1) Use a cable recommended by CC-Link Partner Association.
(2) Take care that the total consumption current of connected devices and the unit on the IO-Link side does not exceed the allowable passing current. Power to devices (L+, L-), digital I/O (C/Q), and digital input (DI) are supplied from IO-Link (+V, -V) on the power supply connector.
(3) Operation settings for digital I/O (C/Q) and digital input (DI) must be configured with CC-Link IE Field.
(If operation settings are not configured, they will not operate.
(4) For the connectors for connecting devices to this product, purchase simple wire-press connector (e-CON) CN-EP2 (5 pcs. set) or CN-EP3 (5 pcs. set) or the recommended product.

recommended product. 5) This product saves settings in internal flash memory.

DIMENSIONS (Unit: mm in) The CAD data can be downloaded from our website.



2019.04 | industrial.panasonic.com/ac/e/ No.LCE-SCLG2CEFP-7 April, 2019 ©Panasonic Coporation 2019

Panasonic Corporation

Industrial Device Business Division

■ 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8506, Japan Specifications are subject to change without notice.