

Panasonic

ideas for life

NEW

Communication Unit for EtherCAT

SC-GU3-03

CE
Conforming to
EMC Directive

EtherCAT- compatible

Enables remote operation and monitoring sensors via a PC network!

MONITORING Enables preventative maintenance and traceability by monitoring operating conditions. **»»**

Logging of a various sensor information

The setting of sensors can be changed via a PC. **««**

OPERATION

Reduces on-site setup time and improves work efficiency.

EtherCAT



ORDER GUIDE



Communication unit for EtherCAT
SC-GU3-03

Main communication unit which converts the data received from any attached sensors to communication data for EtherCAT networks.



End plate
MS-DIN-E

Used to fix the entire SC-GU3 stack to a DIN rail for reliable performance. Highly recommended. **2 pcs. per set**



End unit
SC-GU3-EU

This end unit can change and check the settings of sensor amplifiers that allow optical communication and monitor operation status.



Compatible installation tool for SC **OPTION**
SC-BUX10

Used to install SC-T8J/SC-MIL-S to the SC-GU3-03. **10 pcs. per set**



Cascading connector unit
SC-71

This one-touch connector is used to connect the following devices to SC-GU3-03: The FX-500/400/300 fiber sensor, the LS-400 laser sensor, the DPS-400 digital pressure sensor, SC-T1J and SC-T1JA, etc.



Connection cable **OPTION**
CN-M20-C2

Standard connector cable for linking to the parallel output signal.

EtherCAT is a registered trademark of Beckhoff Automation GmbH.
Please refer to our website or SC-GU3 series catalog for other products.

SPECIFICATIONS

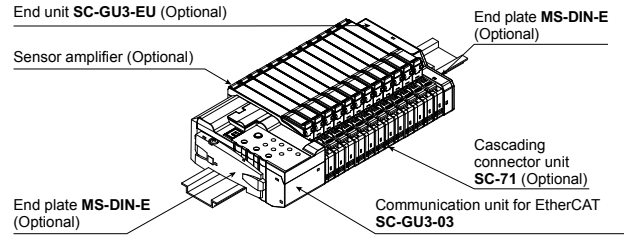
Designation	Communication unit for EtherCAT
Item	Model No. SC-GU3-03
Number of connectable units	Max. 16 units per SC-GU3-03 (Max. 12 units for FX-500 Series)
Supply voltage	24 V DC $\pm 10\%$ Ripple P-P 10 % or less
Current consumption	100 mA or less (excluding connected sensor amplifiers)
Allowable passing current	Wire-saving connector 2 A (Note 1)
Compliance standard	IEEE802.3u
Baud rate	100 Mbps
Communication cable	Category 5e
Internodal distance	100 m 328.1ft
Communication ports	RJ45x2
EtherCAT communication standards	Process data communication, Mailbox communication
Ambient temperature	-10 to +55 °C +14 to +131 °F (No dew condensation or icing allowed), (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) Storage: -20 to +70 °C -4 to +158 °F
Ambient humidity	35 to 85 % RH, Storage: 35 to 85 % RH
Material	Enclosure: Polycarbonate
Weight	Net weight: 75 g approx., Gross weight: 120 g approx.

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- Notes: 1) Be sure to check that total current consumption of sensor amplifiers connected in cascade does not exceed allowable passing current.
2) XML file can be downloaded from our website.

SYSTEM COMPOSITION

If optical communication is to be used in a system that includes models not compatible with optical communication, connect the incompatible models after the **SC-GU3-EU**. A maximum of 12 units can be connected to the **FX-500** Series, and a maximum of 16 units can be connected to the other sensor amplifiers.



SC-GU3-Compatible Sensors

Digital communication supporting sensors (optical communication compatible)

Fiber sensors	FX-501, FX-502, FX-301 (those produced after June 2004), FX-305
Laser sensor	LS-403
Pressure sensors	DPS-401, DPS-402
Sensor input unit	SC-T1JA (in combination with SC-71)

Sensors that only output information (not optical communication compatible)

Fiber sensors	FX-301 (those produced up to May 2004) FX-301 (B/G/H), FX-301-HS
Manually set fiber sensors	FX-411, FX-412, FX-311 (B/G)
Fiber sensors for leaks/liquid fibers	FX-301-F, FX-301-F7
Laser sensor	LS-401
Compact inductive proximity sensor	GA-311
1-channel connector input extension unit	SC-T1J (in combination with SC-71)
8-channel connector input extension unit	SC-T8J (those produced from June 2011, in combination with SC-BU)
8-channel connector I/O extension unit	SC-TP8J (those produced from June 2011, in combination with SC-BU)
	This unit does not contain input / output signal indicators.
Plug-in type sensor main unit	SC-MIL (those produced from June 2011, in combination with SC-BU)
Plug-in type sensor separate unit	SC-MIL-S (those produced from June 2011, in combination with SC-BU)

DIMENSIONS (Unit: mm in)

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

