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Panasonic
ideas for life

CE
Conforming to
EMC Directive

EtherCAT-compatible

Enables remote operation and monitoring sensors via a PC network!

MONITORING
Logging of a various sensor information

Enables preventative maintenance and traceability by monitoring operating conditions.

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
2 pcs. per set

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

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
10 pcs. per set

Used to install **SC-T8J**/**SC-MIL-S** to the **SC-GU3-0□**.

Cascading connector unit
SC-71
This one-touch connector is used to connect the following devices to **SC-GU3-0□**: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.
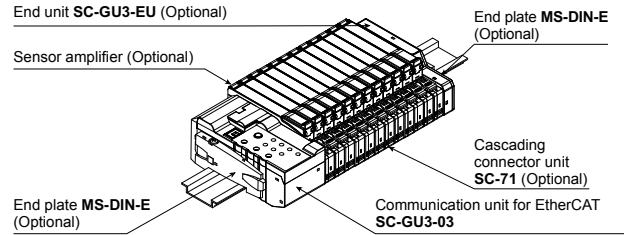
SPECIFICATIONS

Item \ Designation \ Model No.	Communication unit for EtherCAT 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 ±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	RJ45×2
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.

End unit **SC-GU3-EU** (Optional)
Sensor amplifier (Optional)
End plate **MS-DIN-E** (Optional)
Cascading connector unit **SC-71** (Optional)
End plate **MS-DIN-E** (Optional)
Communication unit for EtherCAT **SC-GU3-03**

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.

Panasonic Industrial Devices SUNX Co., Ltd.