**Safety Precautions**

Special expertise is required to use the MicroSmart.

Read this instruction sheet and the user's manual to make sure of correct operation before starting installation, wiring, operation, maintenance, and inspection of the MicroSmart.

All MicroSmart modules are manufactured under IDEC's rigorous quality control system, but users must add backup or backup provisions to control systems using the MicroSmart in applications where heavy damage or personal injury may be caused if the MicroSmart should fail. Install the MicroSmart according to the instructions described in this instruction sheet and the user's manual. Improper installation will result in failure, failure, or malfunction of the MicroSmart.

Keep this instruction sheet where it can be accessed by the end user.

Make sure that the operating conditions are as described in the user's manual. If you are uncertain about the specifications, contact IDEC before using the MicroSmart.

In this instruction sheet, safety precautions are categorized in order of importance from Warning and Caution:

**WARNING**

Warning notices are used to emphasize that improper operation may cause serious personal injury or death.

**CAUTION**

Caution notices are used where instructions might cause personal injury or damage to equipment.

**WARNING**

- Turn off the power to the MicroSmart before starting installation, removal, wiring, maintenance, or inspection on the MicroSmart.
- Failure to turn off the power may cause electrical shocks or fire hazards.
- Emergency stop and interlocking circuits must be configured outside the MicroSmart. If such a circuit is configured inside the MicroSmart, failure of the MicroSmart may cause disorder of the control system, damage, or accidents.
- Use minimum 60°C wire copper conductor only.

**CAUTION**

- The MicroSmart is designed for installation in equipment. Do not install the MicroSmart outside of equipment.

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**Installation**

Install the MicroSmart in environments as described in the user's manual. If the MicroSmart is used in places where it is subjected to high temperature, high-humidity, condensation, corrosive gases, excessive vibrations, or excessive shocks it will result in electrical shocks, fire hazard, or malfunction.

- The environment rating for using the MicroSmart in a Pollution degree 2.
- Protect metal fragments and pieces of wire from dropping inside the MicroSmart housing. Fragments of such materials may cause fire hazard, damage, or malfunction.
- Use wires of a proper size to meet voltage and current requirements. Tighten terminal screws to the proper tightening torque of 0.2N.m.
- Do not disassemble, repair, or modify MicroSmart modules.

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**Parts Description**

- **Type**
  - RS232C: F06A-PC1
  - RS485: F06A-PC3

**Applicable model**

- F06A Series MicroSmart CPU module

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**Connecting Cartridge**

1. Insert flat head screws/wires into the screw/wire insertion slots in both locations of the unit, and while pushing the tabs of the cartridge cover, pull the cartridge cover directly upward to remove it.

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**Wiring**

- **Terminal**
  - RS (RTR) **1** OUTPUT Request to Send
  - ER (TT) **1** OUTPUT Data Terminal Ready
  - SD **1,2** OUTPUT Transmit Data
  - RD (RD) **1** INPUT Receive Date
  - DA (OSAN) **1** INPUT Data Set Ready
  - SG (SG) **1** Signal Ground

Continuous voltage terminal

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**Dimensions**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>All dimensions in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>34.8 mm</td>
</tr>
<tr>
<td>Height</td>
<td>44.6 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>17.8 mm</td>
</tr>
</tbody>
</table>

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**Recommended Screwwire / Tighting torque**

To ensure proper tightening torque, insert the recommended screwdriver made by Phoenix Contact into the terminal screwdriver and tighten the terminal screws to the proper tightening torque.

**Screwwire**: SZS 0.4-2.6 (1205037)

Tighten torque: 0.2 N·m

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**Applicable Ferrule**

The recommended ferrule is made by Phoenix Contact. To crimp the ferrules shown below, use a special crimping tool.

- All 2.56 (3203040)
- All 3.46 (3203050)
- All 5.6 (3203087)

( ) Indicates the Type No. of PHOENIX CONTACT GmbH & Co. KG

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MicroSmart User's manual can be downloaded from http://www.idec.com/download

EU Authorized Representative:

IDEK Elektrotechnik GmbH
Heselstuecken 8, 22453 Hamburg, Germany

Manufacturer:

IDEK CORPORATION
2-6-64, Nishimiyahara, Yodogawa-ku, Osaka, Japan