**INSTRUCTION SHEET**

**MICROSMART**

**FC6A Series**

**Digital I/O cartridge**

This sheet provides brief operating instructions of the MicroSmart programmable controller. For details, see the MicroSmart User's Manual.

### 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.

Keep this instruction sheet where it can be accessed by the end user, All MicroSmart modules are manufactured under HDL's rigorous quality control system, but users must add backup or fail-safe provisions to control systems use 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 falling, failure, or malfunction of the MicroSmart.
- 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 severe personal injury or death.

### CAUTION

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

### WARNING

- Turn off the power to the FCSA and FT1A before starting installation, removal wiring, maintenance, or inspection on the FCSA and FT1A.
- Failure to turn off the power may cause electrical shocks or fire hazard.
- Emergency stop and interlocking circuits must be configured outside the FCSA and FT1A. If such a circuit is configured inside the FCSA and FT1A, failure of the FCSA and FT1A 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.

**1 TYPE**

- Transistor SINK output: FCSA-PTK64
- Transistor SOURCE output: FCSA-PTS4
- DC input: FCSA-PN4

**Applicable model**

- FCSA Series MicroSmart CPU module
- SmartAXES Series FT1A Controller TOUCH (Display type)

**2 Parts Description**

**3 Connecting Cartridge**

Step 1. Insert two flathead screwdrivers into the screwdriver insertion slots in both locations of the unit, and while pushing the tabs of the cartridge cover, remove the cartridge cover straight off of the unit.

Step 2. Pay careful attention to the direction of the cartridge and attach it straight to the unit.

**4 Dimensions**

All dimensions in mm.

**5 Wiring**

- : Fuse
- : Load

**6 Applicable Ferrule**

The recommended ferrule is made by Phoenix Contact. To crimp the ferrules shown below,

use a special crimping tool (ICRMF/FOX 6 (1212034))

- **AI 0.25 mm² (3029340)**
- **AI 0.5 mm² (3029350)**
- **AI 0.54 mm² (3029687)**

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**7 Recommended Screwdriver / Tightening torque**

To wire the terminal block, use the recommended screwdriver made by Phoenix Contact and tighten terminal screws to the proper tightening torque,

- Screwdriver: S2S 0.4×2.5 (1209337)
- Tighten torque: 0.2 N·m

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**MicroSmart User’s manual can be downloaded from**

http://www.idec.com/download

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