

IDEC IZUMI CORPORATION

B - 575

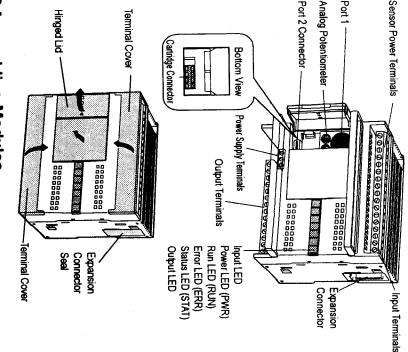
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Operating Instructions

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

FC4A-C10R2, FC4A-C16R2, FC4A-C24R2

Name & Function

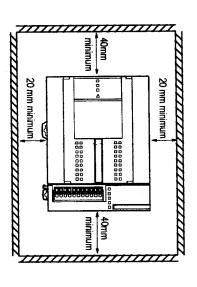


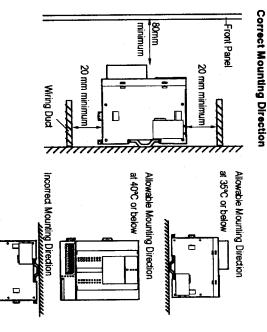
Assembling Modules

type CPU module. With the expansion connectors Remove the expansion connector Seal from the 24-I/O together, and push in the unlatch button to attach the aligned correctly, press the CPU module and I/O module modules together firmly.

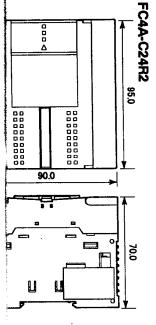
Installation in Control Panel & Mounting Direction

resistance against environments into consideration. the convenience of operation and maintenance, and When installing the MicroSmart in a control panel, take



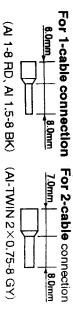


Dimensions



)Applicable Ferrule Dimensions (mm)

crimping tool (CRIMPFOX ZA 3) To crimp the ferrules shown below, use a special



) indicates the Type No. of Phoenix Contact

Recommended Screwdriver

the recommended screwdriver. When wiring the Phoenix Contact terminal block, use

(Phoenix Contact Type No.: SZS 0.6×3.5)

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 at the end user.
- All MicroSmart modules are manufactured under IDEC's rigorous quality control system, but users must add a backup injury may be caused in case the MicroSmart should fail. MicroSmart in applications where heavy damage or personal or failsafe provision to the control system using the
- Install the MicroSmart according to instructions described in Improper installation will result in falling, failure, this instruction sheet and the user's manual
- Make sure that the operating conditions are as described in specifications, contact IDEC in advance the user's manual. If you are uncertain about the

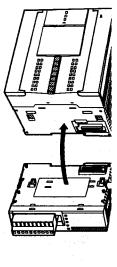
malfunction of the MicroSmart.

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

Warning

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

- Turn power off to the MicroSmart before starting installation, removal, wiring, MicroSmart. maintenance, and inspection on the
- Failure to turn power off may cause electrical shocks or fire hazard.

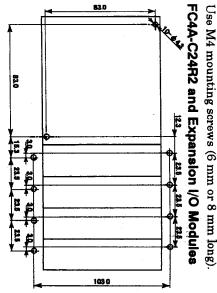


Note: I/O modules cannot be mounted on the 10- and 16-I/O type CPU modules.

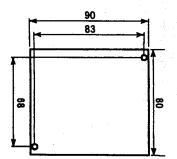
Mounting Modules

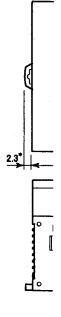
secure the modules. mounting clips to DIN rail and BNL6 Use a 35-mm-wide [DIN Rall Mounting] -Clamp Groove **DIN Rail** 35-mm-wide

[Direct Mounting]



FC4A-C16R2 FC4A-C10R2 and





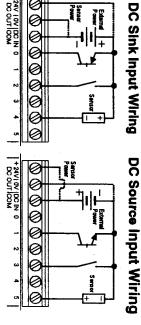
FC4A-C10R2 and FC4A-C16R2 0000 000 90.0 70.0 Ш

*8.5 mm when the clamp is pulled out.

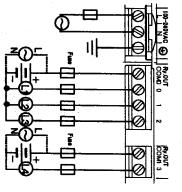
Dimensions in mm.

Wiring

DC Source Input Wiring



AC Power and Relay Output Wiring



- 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
- This equipment is suitable for use in Class I, Division 2, Groups A,B,C,D or non-hazardous locations only.
- Warning Explosion Hazard Substitution of components may impair suitability for ClassI, Division 2.
- Warning Explosion Hazard Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.



(Caution notices are used where inattention might cause personal injury or damage to equipment.)

- The MicroSmart is designed for installation in equipment. Do not install the MicroSmart outside equipment.
- Install the MicroSmart in environments described in the excessive shocks, then electrical shocks, fire hazard, or malfunction will result. condensation, corrosive gases, excessive vibrations, and MicroSmart is subjected to high-temperature, high-humidity, user's manual. If the MicroSmart is used in places where the
- The environment for using the MicroSmart is "Pollution degree 2.
- Prevent metal fragments and pieces of wire from dropping and chips may cause fire hazard, damage, or malfunction. inside the MicroSmart housing. Ingress of such fragments
- Use wires of a proper size to meet voltage and current requirements. Tighten terminal screws to a proper tightening torque of 0.5 N-m.
- Use an IEC60127-approved fuse on the power line and output circuit to meet voltage and current requirements.

218000 series/Type T) This is required when exporting equipment containing MicroSmart to Europe. (Recommended fuse: Littelfuse 5x20mm slow-blow type

- Use an EU-approved circuit breaker. This is required when exporting equipment containing MicroSmart to Europe.
- outside of the MicroSmart. which may cause heavy accidents, provide a monitor circuit should fail, outputs may remain on or off. For output signals If relays or transistors in the MicroSmart output modules
- Use the sensor power supply only for supplying power to sensors connected to the MicroSmart.
- Do not disassemble, repair, or modify the MicroSmart