IDE DC
INSTRUCTION SHEET
MICROSMART
FGSA Series
Expansion Interface module

This sheet provides basic operating instructions of the MicroSmart programmable controller. For details, see the FGSA Series 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 installing, 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 IDEC’s rigorous quality control system, but users must add backup or failure provisions to control systems when 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.

• 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

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

CAUTION

Caution notices are used where malfunction might cause secondary damage to equipment.

CAUTION

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

• Install the MicroSmart in environments as described in the user's manual. If the MicroSmart is used in places that are subject to high-temperature, high-humidity, condensation, corrosive gas, excessive vibrations, excessive shocks, wind, or extreme wind, it may result in damage to the circuitry, loss of function, or malfunction.

• The environment rating for using the MicroSmart is “Indoor use only”.

• Prevent metal fragments and pieces of wire from dropping inside the MicroSmart housing. Ingredients of such fragments and dust may create fire.

• Use wire of a proper size to meet voltage and current requirements. Tighten terminal screws to the proper tightening torque of 0.4 Nm.

• Use an EC300/27-approved fuse on the fuse panel and output circuit to meet voltage and current requirements. (Recommended fuse: 32x32mm slow-blow type 200000 series type 1) This is required when exporting equipment containing MicroSmart to Europe.

• Use an EC-approved circuit breaker. This is required when exporting equipment containing MicroSmart to Europe.

• If the MicroSmart output modules fail, outputs may remain on or off. For output signals which may cause heavy damage, provides a monitor circuit outside of the MicroSmart. (Do not disassemble, repair, or modify MicroSmart modules).

8 Specifications

• Expansion Interface module: FGSA-EXM2

9 Applicable Fertile

The recommended ferrule is made by Phoenix Contact. To crimp the ferrules shown below, use a special crimping tool (CNRMP/FOX 6 (1212034)).

10 Recommended Screwdriver / Tightly nut

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

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