



Installation & Maintenance Manual

Fieldbus system - End plate

Type EX600-ED2 / EX600-ED3

Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage.

These instructions indicate the level of potential hazard with the labels of "Caution", "Warning" or "Danger". They are all important notes for safety and must be followed in addition to International standards (ISO/IEC), Japan Industrial Standards (JIS) and other safety regulations.

	Caution	CAUTION indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
	Warning	WARNING indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
	Danger	DANGER indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

This product is class A equipment that is intended for use in an industrial environment.

There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted as well as radiated disturbances.

Warning

- Do not disassemble, modify (including changing the printed circuit board) or repair.
An injury or failure can result.
- Do not operate the product outside of the specifications.
Do not use for flammable or harmful fluids.
Fire, malfunction, or damage to the product can result.
Verify the specifications before use.
- Do not operate in an atmosphere containing flammable or explosive gases.
Fire or an explosion can result.
This product is not designed to be explosion proof.
- If using the product in an interlocking circuit:
 - Provide a double interlocking system, for example a mechanical system.
 - Check the product regularly for proper operation.
Otherwise malfunction can result, causing an accident.
- The following instructions must be followed during maintenance:
 - Turn off the power supply.
 - Stop the air supply, exhaust the residual pressure and verify that the air is released before performing maintenance.
Otherwise an injury can result.

Safety Instructions (Continued)

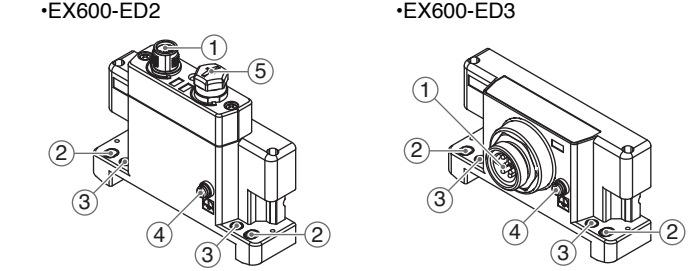
Caution

- When handling, assembling or replacing the unit:
 - Avoid touching any sharp metal parts of the connectors for connecting units.
 - When assembling units, take care not to get any fingers caught between units. Injury can result.
 - When disassembling units, take care to avoid excessive force.
The connection parts of the unit are firmly joined with seals and injury can result.
- After maintenance is complete, perform appropriate functional inspections.
Stop operation if the equipment does not function properly.
Safety cannot be assured in the case of unexpected malfunction.
- Provide grounding to assure the safety and noise resistance of the Fieldbus system.
Individual grounding should be provided close to the product with a short cable.

NOTE

- The direct current power supply to combine should be UL1310 Class2 power supply when conformity to UL is necessary.

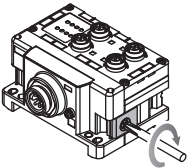
Summary of Product parts



No.	Description	Function
1	Power connector	Connector for power supply to SI unit and I/O units.
2	Fixing hole for direct mounting	Holes for direct mounting.
3	DIN rail fixing hole	Holes for DIN rail mounting.
4	FE terminal	Terminal for ground connection.
5	Connector (Not used)	Unused connector. Do not remove seal cap.

Assembly

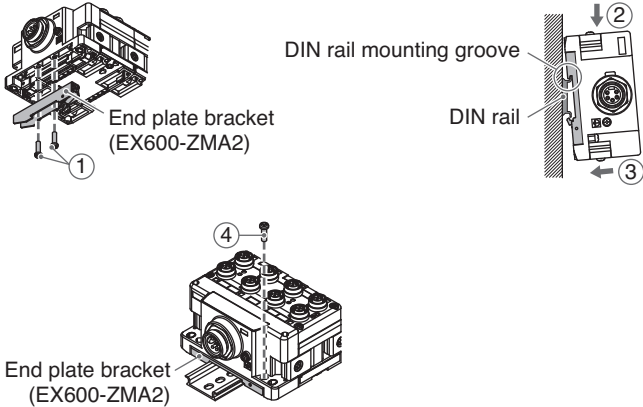
- Assembling the unit as a manifold
 - Connect a unit to the end plate.
Tighten the joint brackets to a torque of 1.5 to 1.6 Nm.



Mounting and Installation

Installation

- Direct mounting
Mount and tighten the end plate at one end of the unit. (M4)
Tightening torque: 0.7 to 0.8 Nm.
- DIN rail mounting
(Not available for SY series valves. Refer to the SY catalogue.)
 - (1) Mount the end plate bracket (EX600-ZMA2) to the end plate at the opposite end to the valves, using 2-M4x14 screws.
Tightening torque: 0.7 to 0.8 Nm.
 - (2) Hook the DIN rail mounting groove on to the DIN rail.
 - (3) Press the manifold using its side hooked to the DIN rail as a fulcrum until the manifold is locked.
 - (4) Fix the manifold by tightening the DIN rail fixing screws of the EX600-ZMA2. (M4x20)
Tightening torque: 0.7 to 0.8 Nm.



Wiring

- Connect M12 connector or 7/8 inch connector cable. M12 connector is applicable for SPEEDCON connector.
- Connector pin assignment
 - EX600-ED2

Configuration	Pin number	Signal name
	1	24 V (Output)
	2	0 V (Output)
	3	24 V (Control and input)
	4	0 V (Control and input)
	5	FE

Configuration	Pin number	Signal name
	1	0 V (Output)
	2	0 V (Control and input)
	3	FE
	4	24 V (Control and input)
	5	24 V (Output)

Refer to the SMC website (URL <http://www.smcworld.com>) to obtain more detailed information about mounting and installation.

Specification

Model		EX600-ED2	EX600-ED3
Power supply (Control and input)	UL ratings	24 VDC Class2, 2 A	24 VDC Class2, 4.1 A
Power supply (Output)		24 VDC Class2, 2 A	24 VDC Class2, 4.1 A
Power supply (Control and input)	Non UL ratings	24 VDC Class2, 2 A	24 VDC, 8A
Power supply (Output)		24 VDC Class2, 2 A	24 VDC, 8A
Operating temperature range	-10 to 50 °C (Max. surrounding air temperature rating: 50 °C)		
Storage temperature range	-20 to 60 °C		
Pollution degree	For use in Pollution Degree 2 Environment (UL508)		

Refer to the product catalogue or SMC website (URL <http://www.smcworld.com>) to obtain more detailed information about product specifications.

Maintenance

- Maintenance should be performed according to the Safety Instructions.
- Perform regular maintenance and inspections.
There is a risk of unexpected malfunction.
- Do not use solvents such as benzene, thinner etc. to clean each unit.
They could damage the surface of the body and erase the markings on the body.
Use a soft cloth to remove stains.
For heavy stains, use a cloth soaked with diluted neutral detergent and fully squeezed, then wipe up the stains again with a dry cloth.

Refer to the SMC website (URL <http://www.smcworld.com>) to obtain more detailed information about maintenance.

Outline with Dimensions

Refer to the product catalogue or SMC website (URL <http://www.smcworld.com>) to obtain more detailed information about outline dimensions.

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SMC Corporation

URL <http://www.smcworld.com> (Global) <http://www.smceu.com> (Europe)

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