

SmartDriver Kit

Installation Manual



Safety Information

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

O2048GB SmartDriver Kit Commissioning and Integration Guide

The O2048GB SmartDriver Kit Commissioning and Integration Guide can be accessed on the Schneider Electric extranet, ecoxpert.se.com.

How to Read this Manual

Glossary

Terms and abbreviations	Explanation
SmartX Controller Automation Server	A field controller with interfaces and a processor to run SmartDriver deployment and memory to save necessary data.
AS EN54 FIRE SD	The driver loaded into an automation server. It provides communications between EcoStruxure Building Operation and Esmi Sense FDP fire detection systems.
AS EN 54 Configurator Tool	The AS EN54 fire configurator application. This is a Windows WPF application that is used to create an EcoStruxure for the building operation interface, devices, values, alarms, graphics and bindings in an automation server to represent the Esmi Sense FDP fire detection system.
SmartDriver Kit	The SmartDriver Kit is pre-assembled inside an Esmi Sense wall-mount cabinet. The SmartDriver Kit includes a transformer, power unit and automation server. The automation server includes the SmartDriver and default settings for easy commissioning.

Introduction to the SmartDriver Kit

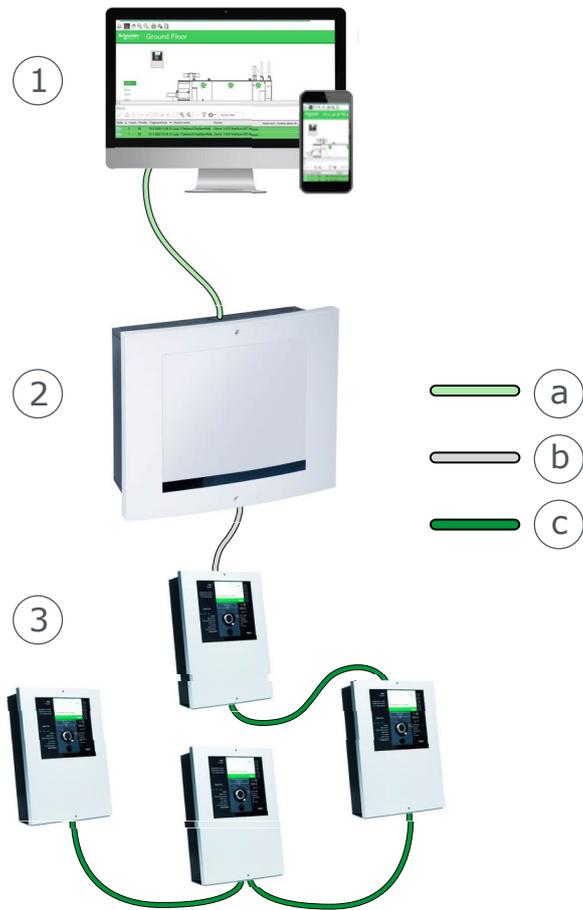
You can visualize, operate and drive efficiency with the SmartDriver Kit Esmi Fire EN54 (FFS00706002). The SmartDriver works as a driver between the Esmi fire alarm panel and the EcoStruxure Building Operations automation server. The automation server enables an EcoStruxure Building Operation graphical user interface for the fire system. The EcoStruxure Building Operation fire graphics functions are available in a web browser and mobile environments. With these fire

graphics, all fire elements are placed according to the floor plan, and the status of an element is visualized. You can operate fire elements like detectors or fire panels by selecting them from the floor plan.

NOTE: The fire panel must be able to offer an INFO protocol line RS-485 to the SmartDriver Kit. An optional INFO line option board (FFS00702523) must be added to the fire panel that is connected.

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Fire graphics architecture

(1) User interface

(2) SmartDriver Kit

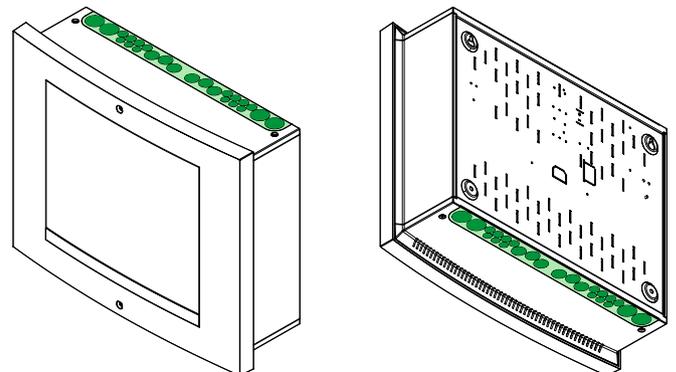
(3) Fire system

(a) Ethernet

(b) INFO line RS-485

(c) FXCOMM RS-485

There are cable entries on the top and the bottom of the cabinet for easy access.



Cable entries

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Installing the SmartDriver Kit

NOTICE

COMPROMISE OF SYSTEM AVAILABILITY AND INTEGRITY

Install the SmartDriver Kit where only authorized personnel can access it.

Failure to follow these instructions can result in loss of data or unauthorized system access.

To Install the SmartDriver Kit

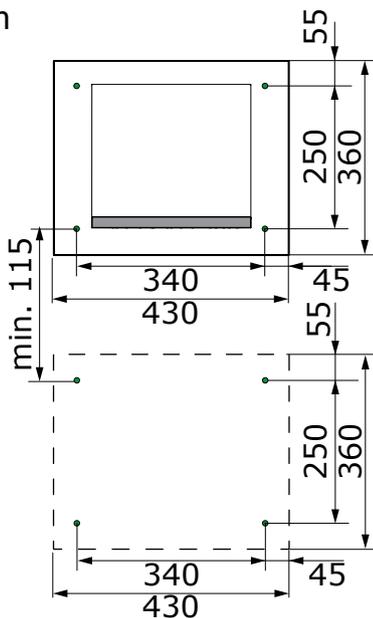
①

Find a suitable location and surface for installation of the SmartDriver Kit.

②

Refer to the dimensional drawing before installing the SmartDriver Kit.

mm



③

Make sure that the weight-bearing load capacity of the mounting surface is sufficient.

④

Make sure that you have suitable mounting hardware and anchoring system as per the surface manufacturer's specification.

⑤

In the mounting surface, drill holes for the mounting screws, plugs, or other anchor fasteners.

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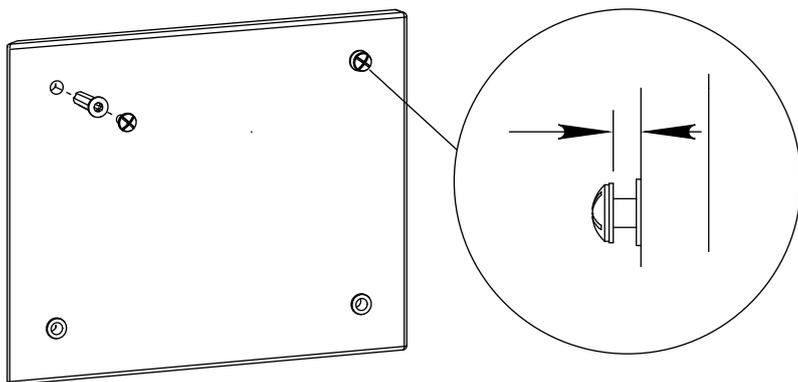
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To Install the SmartDriver Kit

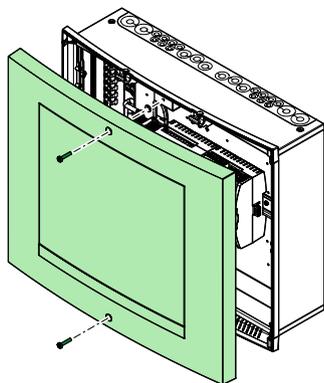
⑥

Install suitable screws, with or without plugs or anchor fasteners, in the top holes. Leave enough space between the head of the screw and the surface to be able to slide the cabinet onto the screws.



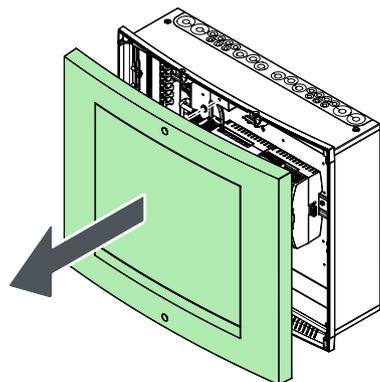
⑦

Remove the screws from the cabinet cover.



⑧

Remove the cabinet cover.



SmartDriver Kit

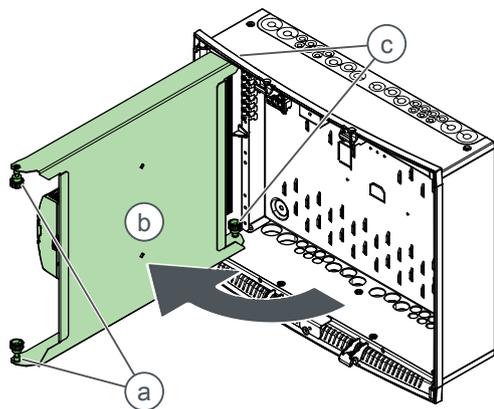
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To Install the SmartDriver Kit

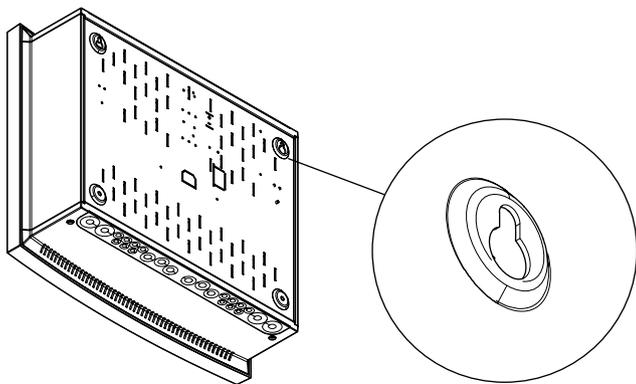
⑨

Loosen the screws (a) on one side to swing the mounting plate (b) out of the way. To remove the mounting plate, also loosen also the screws (c) on the other side of the mounting plate.



⑩

Fit the two keyhole slots on the rear of the SmartDriver cabinet onto the screws on the mounting surface.



⑪

Slide the cabinet into place.

⑫

Fit the bottom screws, with or without plugs or anchor fasteners.

⑬

Tighten the top and bottom screws.

Connecting the SmartDriver Kit

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To Connect the SmartDriver Kit

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

Connect only the communication interfaces now.

Failure to follow these instructions will result in death or serious injury.

NOTICE

SIGNAL DISTURBANCE

- Make sure that the RS-485 line length is 1,000 m maximum.
- Make sure that the Ethernet cable length is 100 m maximum.

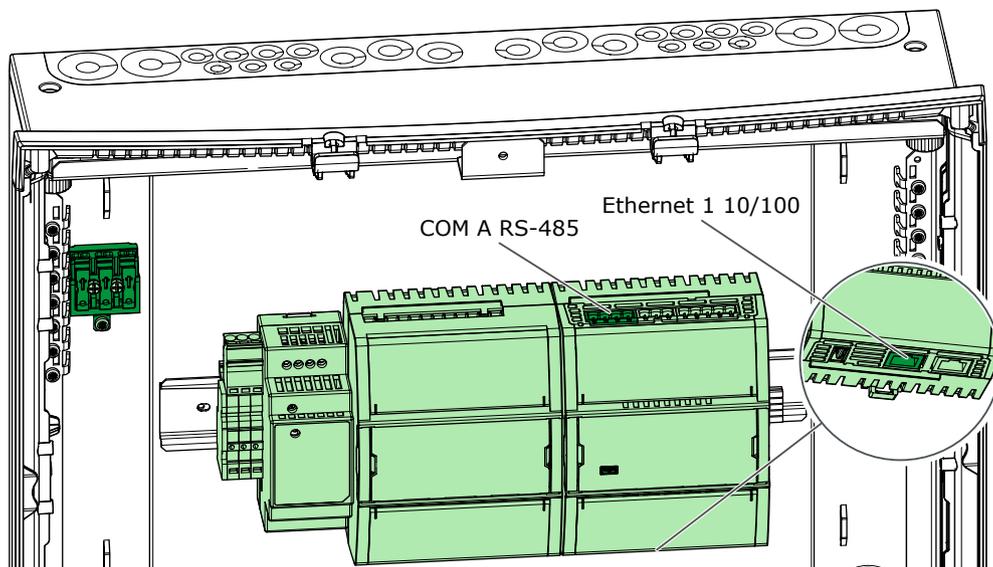
Failure to follow these instructions can result in loss of communication.

①

Connect the communication interfaces:

- COM A RS-485 interface for INFO line connection TX/RX+, TX/RX- and RET
- Ethernet 1 10/100 interface for the client connection

The default IP address is 192.168.1.99 MASK 255.255.255.0 GW 192.168.1.254

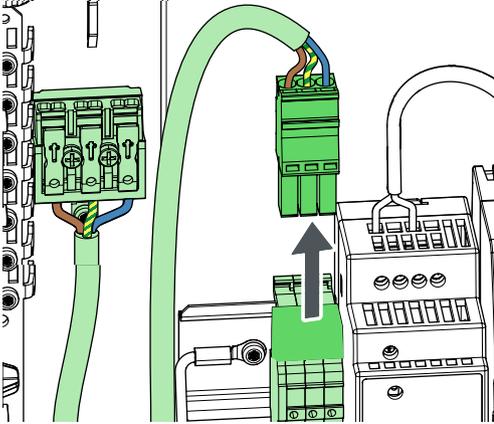


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②

Disconnect the power connector from the connector next to the transformer.

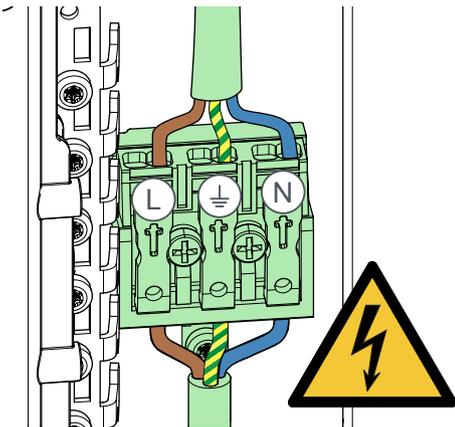
**⚠ ⚠ DANGER****HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

Disconnect the power supply and other high voltage equipment before wiring.

Failure to follow these instructions will result in death or serious injury.

③

Connect the mains supply to the push-in wire connector.

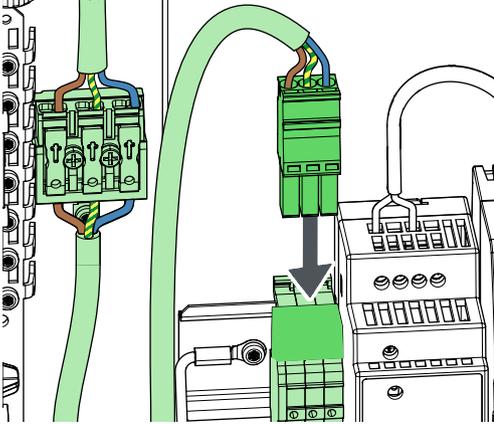


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④

Connect the power connector to the connector next to the transformer.



⑤

Connect the mains power supply.

The system starts up.

Resetting the SmartDriver Kit

To Reset the SmartDriver Kit

①

On the automation server, press the reset button with a straightened paper clip or similar.

