

Technical Description

MEW01244

Revision -

General control cabinet 4590

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1 Introduction

This document¹ describes the General control cabinet 4590.

The cabinet is by delivery equipped with three general mounting plates, which can be equipped by the user for required functions.

As an alternative, Fan control panel(s) 4593 can be used.

¹ Original file name: K:\PRO\FIRE\EBL\Doc\Eng\MEW01244 (Rev -).doc

2 Definitions / Explanations

Definitions / explanations / abbreviations / etc. frequently used or not explained elsewhere in the document.

C.i.e. Control and indicating equipment = C.U.

C.U. Control Unit = CU = C.i.e.

H/W Hardware

FCP Fan Control Panel

3 General description

The General control cabinet is a light grey metal cabinet with aluminium sides, like the EBL128 c.i.e. cabinet.

The cabinet is equipped with three general mounting plates.

The cabinet has a door with a Plexiglas in front of the plates. A key is required to open the door.



Figure 1. The General control cabinet 4590 with the three general mounting plates visible through the door with Plexiglas.

The cabinet can be used in any EBL fire alarm system where equipment for fan control, smoke ventilation, etc. is required.

It can be mounted close to the fire alarm c.i.e. or separately. It is intended for indoor use and in dry premises.

NOTE! The cabinet has no prepared cable inlets. Top, bottom and backside are made of aluminium (3 mm).

4 Rails

The General control cabinet is very flexible. On the left and right side, inside the cabinet, are rails mounted for the three general mounting plates. They are mounted for a standard position of the three plates, see Figure 1 -- Figure 3.

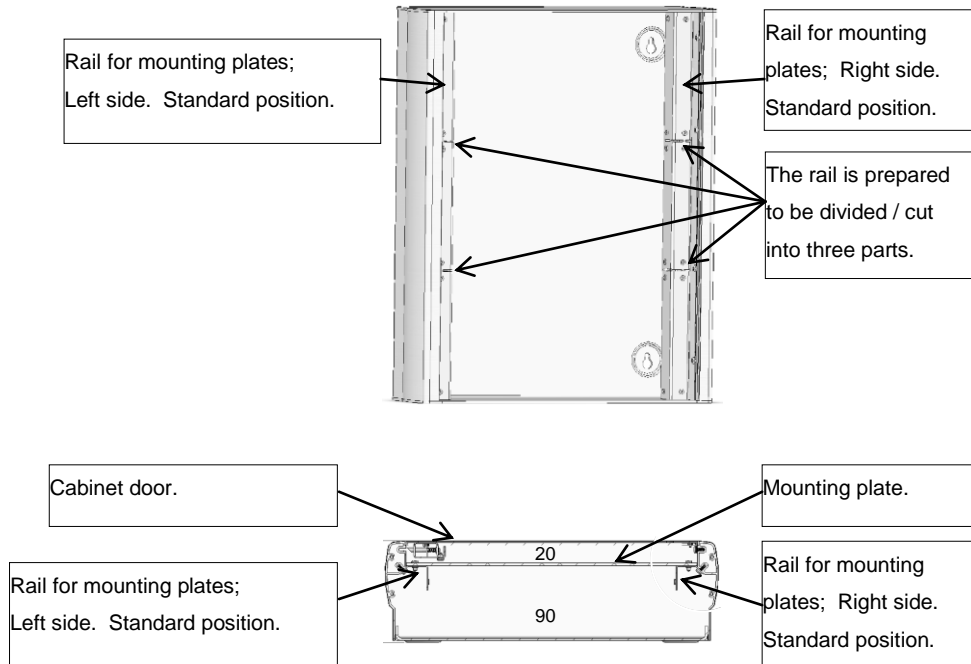


Figure 2. The General control cabinet 4590 with the two rails.

4.1

Standard mounting of the rails

When the rails are mounted for standard position of the mounting plates (like in Figure 1 and Figure 3), the free space behind the plate is approx. 90 mm and in front of the plate approx. 20 mm.

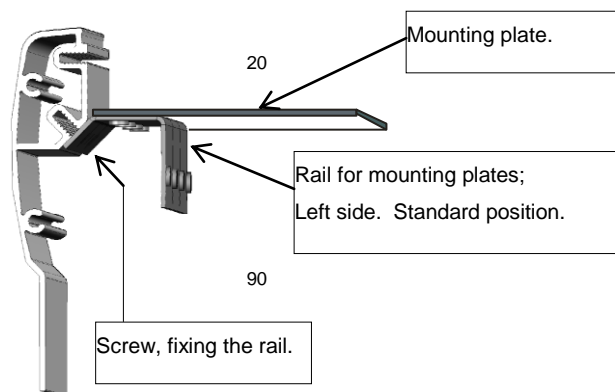


Figure 3. Detail of a rail mounted for standard position of the mounting plate.

4.2 Alternative mounting of the rails

When the rails are mounted for alternative position of the mounting plates, the free space behind the plate is approx. 55 mm and in front of the plate approx. 55 mm.

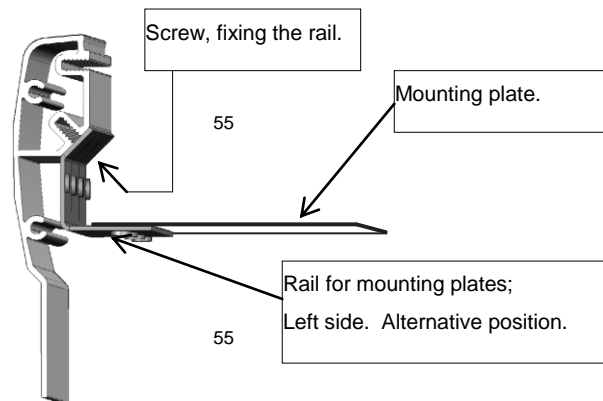


Figure 4. Detail of a rail mounted for alternative position of the mounting plate.

By delivery the rails are mounted for a standard position of the three plates.

When the rails shall be mounted for alternative position of the mounting plates, the left side and the right side of the cabinet have to be removed.

Unscrew the screws according to Figure 5 to get access to the rail fixing screws.



Figure 5. Four screws in the cabinet bottom and four screws in the cabinet top have to be unscrewed to get access to the rail fixing screws.

Each rail is fixed in the cabinet side with three screws (ST4.2 x 9.5 mm). Unscrew the screws and mount the rails according to Figure 4. Put back the cabinet sides again.

4.3 Dividing / cutting the rails

The rails are prepared to be divided into three parts. Each part of the rail can be mounted in the standard or the alternative position.

Remove the left side and the right side of the cabinet and take out the rails according to chapter "Alternative mounting of the rails" above.

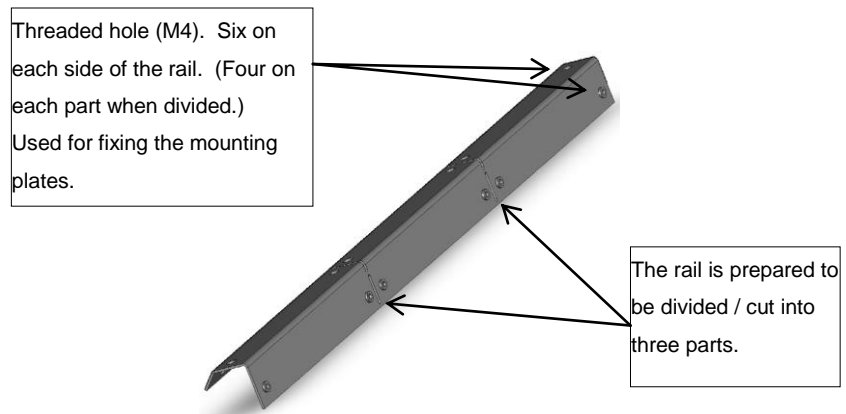


Figure 6. The rail is prepared to be divided / cut into three parts.

Cut the rails where they are prepared to be divided.

Put back the rails in the wanted positions and put back the cabinet sides again.

5 Mounting plate / panel

The General control cabinet is by delivery equipped with three General mounting plates 4591.

A Fan control panel 5493 is available.

The user can, however, make his own panels according to his specific requirements.

5.1 General mounting plate

The general mounting plate, spare part type number 4591, can be used and equipped by the user for required functions.

Size: 362 x 168 x 3mm.

5.2 Fan control panel

The Fan control panel 4593 contains of a fan control mounting plate with two fan control application boards and two fronts with LEDs and push buttons for the fan control functions. The Fan control panel 4593 is described in separate documents.

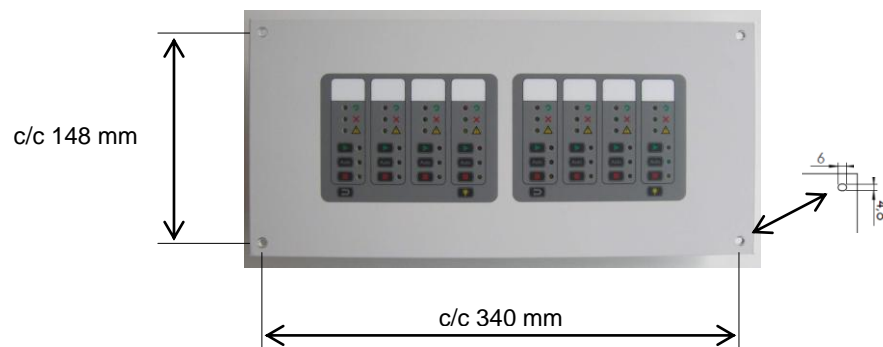


Figure 7. The Fan control panel 4593. Panel hole measures.

The Fan control panel 4593 has the same size as the general mounting plate (362 x 168mm), i.e. up to three Fan control panels can be mounted in the cabinet.

5.3 Mounting holes

The rails in the cabinet are prepared with threaded holes (M4), six on each side of the rail. See Figure 6.

The holes are made for the general mounting plate (362 x 168 x 3mm) and the Fan control panel 4593.

Measures according to Figure 7. Screws M4 x 10H.

6 Technical data

Ingress protection rating

IP32 (Estimated)

Size W x H x D (mm)

411 x 511 x 126 (the cabinet)

362 x 168 x 3 (the general mounting plate)

Weight (g)

7440 (the cabinet incl. three general mounting plates)

500 (the general mounting plate)

Colour (metal cabinet / door)

Light grey (NCS S 1500-N, PMS Cool grey 2) & aluminium sides.

Approvals

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7 **Revision history**

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