SecuControl

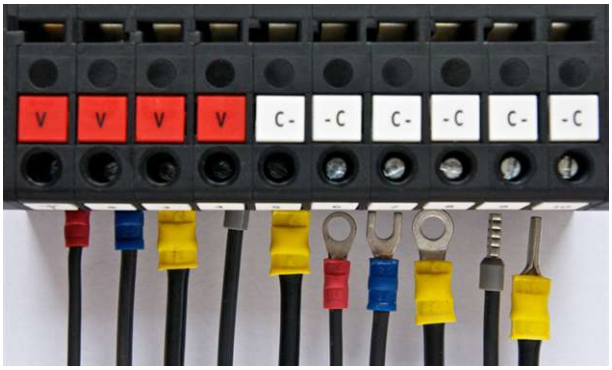
SAX / PAX Test Blocks & Probes

Installation

sax-installation-en v.58

Wiring

Electrical connection terminals are located on the sides of the SAX terminal / test block. The connection terminals combine a screw in the center with a pressure plate, accepting ring cable lugs, stripped wire or other crimp connectors.



Recomended wire gauge is from 1,5 mm^2 (AWG 16) to 4 mm^2 (AWG 12).

CTs should be wired to the terminals provided for this purpose (in 2 or 4-pole combinations) to ensure automatic short circuiting upon insertion of PAX test probes or individual test probes into the SAX terminal / test block. The terminals designated for the connection of the CTs can typically be identified by the C- | -C or C- | -C- | -C- | -C.[1].

All "poles" (or test block modules) are continuously numbered (e.g. from 1 through 20 for a 20-pole SAX). The system side is indicated with the letter "a" and the device side with the letter "b".

SAX functionality requires that the **B-SIDE** (device side) of the test block must be connected with the device to be tested (e.g. protective relay), and the **A-SIDE** (system side) must be connected to the electrical system (e.g. CTs, PTs and breakers).

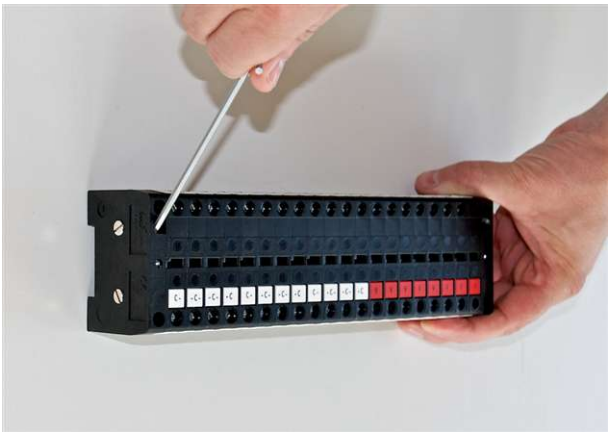
[1] These custom labeling may show other symbols or use other colors.

Mounting

The SAX test block can be mounted in two different ways:

DIN Rail (35 mm) Mount

1. Using a 3 mm hex drive, unscrew the two screws located on the sides of the SAX test block as far as possible. The screws are captive and cannot be completely removed.



2. Fit the block on the DIN rail.
3. Tighten the screws.
4. Check if the block is securely fixed to the rail.

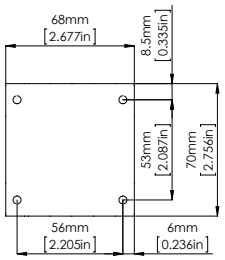
Surface Mount

Use the provided M4x50 screws to fix the SAX test block onto the panel. The screws should be tightened using a 3 mm hex drive.

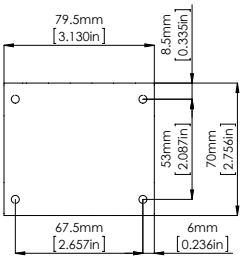
Drilling Plans

Following figures represent the drilling plans to different models available. The drilling should forecast a M4 metric thread.

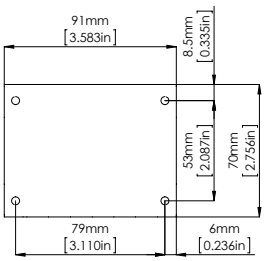
4-pole Models



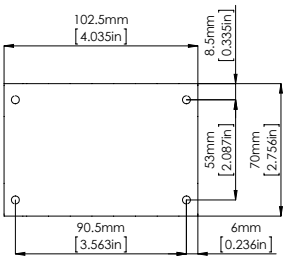
5-pole Models



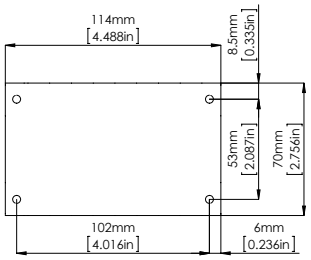
6-pole Models



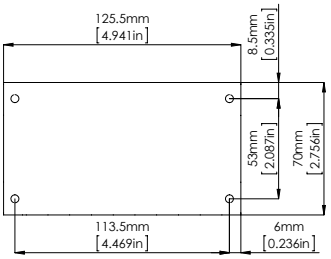
7-pole Models



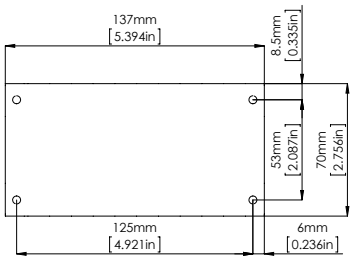
8-pole Models



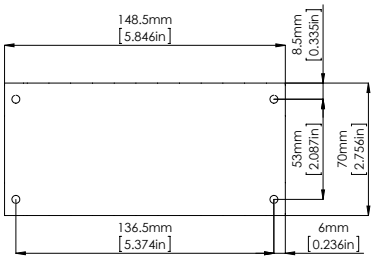
9-pole Models



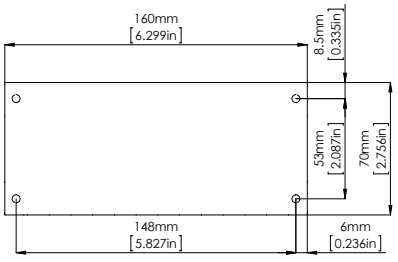
10-pole Models



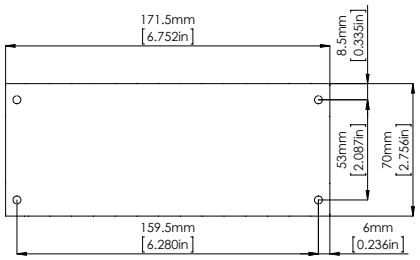
11-pole Models



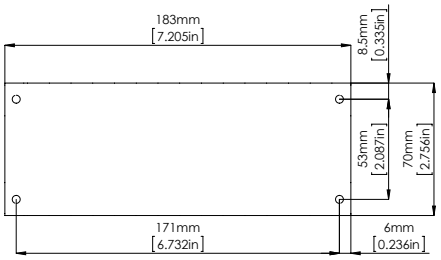
12-pole Models



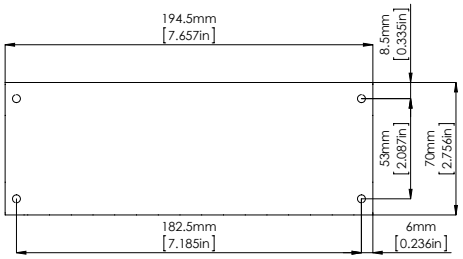
13-pole Models



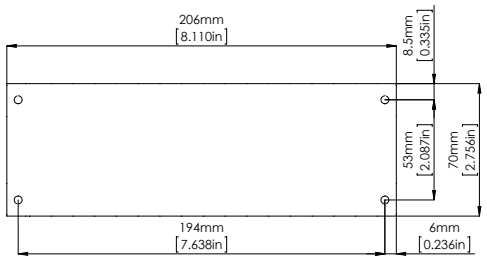
14-pole Models



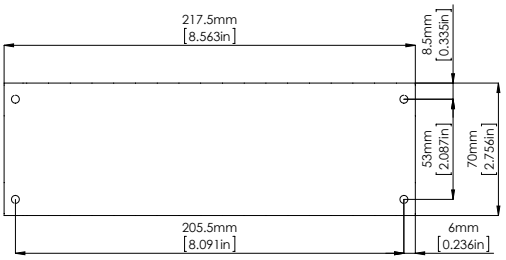
15-pole Models



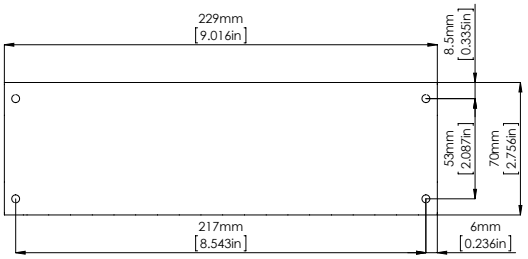
16-pole Models



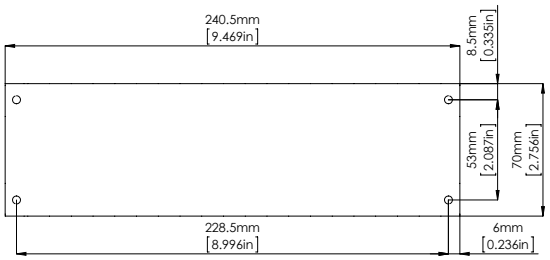
17-pole Models



18-pole Models



19-pole Models



20-pole Models