EP SS4000 Random Search Selector

Installation, Set-up and Operating guide

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Prod.ref: **EP SS4000**

This is a mains powered Random Search Selector, supplied with a universal power adaptor and which is suitable for use with most UK, Euro and USA power sockets.
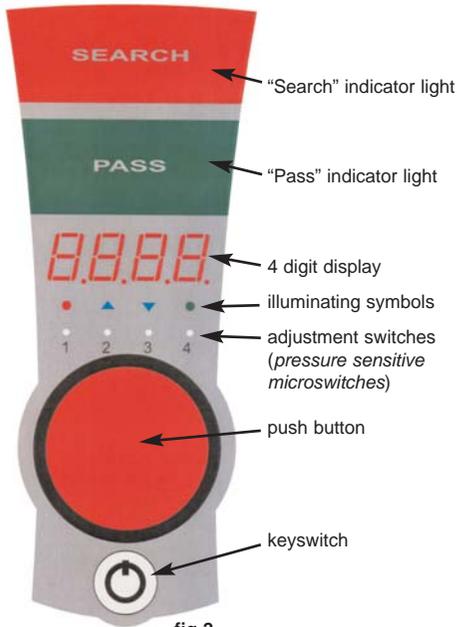(100-250V 50/60Hz A.C.)

CE

SEARCH

PASS

8.8.8.8.

- "Search" indicator light
- "Pass" indicator light
- 4 digit display
- illuminating symbols
- adjustment switches (*pressure sensitive microswitches*)
- push button
- keyswitch

fig 2

Getting Started

Adjusting the search percentage:

To set the search percentage turn the key anti-clockwise to the adjust position then use the middle up/down buttons (see fig.2 - buttons 2 & 3) to set the percentage

Using the Search and Pass Counters:

With the key removed press the left switch (1) to show the "Search Count". Press the right switch (4) to show the "Pass Count".

Resetting the counters:

Press and hold the left and right switch (1,4) and turn the key to the adjust position

Wall mounting the unit:

• Carefully lever off the two black press fit end caps from the unit using a blade or screwdriver in the slot between the clip and the main case
• Drill a single hole using a 5.5-mm masonry drill for the top mounting hole
• Fit a wall plug - screw the unit onto the wall using a single fixing
• Align the unit vertically
• Mark the wall by placing the bottom screw in position and tapping the end
• Remove the unit - draw a large cross with the mark at the centre
• Drill the bottom hole using the cross to avoid allowing the drill to drift off course
• Connect the power plug
• Fit 2nd wall plug and screw the unit in place
• Replace the end caps

Adjustable settings for special applications:

The selector can be customized for different applications by entering the edit menu:

With the key in the "fixed" position press buttons (1 & 2) together.

Turn the key to the adjust position.

The up-down buttons (3,4) can then be used to step through the variable settings.

To adjust settings press buttons (1&4) together.

A dot on the right hand side of the display shows that the variable can now be altered by using the up-down keys (3,4).

Pressing button 1 will lock in the new setting.

Variable adjustments:

1. Internal "search sound" on/off (default on)
2. Internal "pass sound" on/off (default on)
3. External "search sound" on/off (default on)
4. External "pass sound" on/off (default on)
5. Search pass lamp time in seconds (def: 8 secs)
6. Search, pass relay time in 100millisecs (def: 1)
7. Pushbutton enable-disable (default on)
8. External reset NO/NC contacts (def: NO)
9. Lamps off when reset i/p changed (def: off)
10 Search/Pass relays off - reset i/p changed (default off)
11 Special applications
12 Special applications

Search Selector input & outputs:

There are 4 connectors on the unit:
• DC Jack input, 12 volts regulated (centre pin +ve)
By removing stick-on cover you can access:
• 8 way RJ45 connector - External Pushbutton input (see below for pin use)
• 6 way connector - Remote adjustment input
• USB - Computer interface

The 8 way RJ45 - External Pushbutton input connector - pin connections:
1. External reset input
2. Pass relay output (-ve)
3. Sounder -ve
4. Red lamp output (-ve)
5. Green lamp output (-ve)
6. Search relay output (-ve)
7. Pushbutton input
8. Common connection (+12 volts)

Note: this unit is not suitable for external mounting

Optional accessories: include;

- External Pushbutton

  prod ref: **EP SS4000RB**

- Remote Indicator

  prod ref: **EP SS4000RI**

Operating a Random Search Scheme:

The random search selector is what it says, random! It's impossible to predict the outcome of any press of the button, regardless of the setting (except 0 or 100%). On power up the selector setting defaults to 50%. In order to maintain a setting once adjusted, it is recommended that the selector is wired to a permanent supply.

50% of what?

The setting is the odds of selection, e.g. at 20% there is a one in five chance of getting a red "Search" indicator alert.
Set your unit on 20% and press the button for a large number of times, look at the values of the search and pass count, the ratio will be almost 4 to 1, not exactly but that's random for you!

What is the right setting for the selector?

The principle behind operating a random search is to deter, so the security checks made on those who are selected must be thorough. It is important that the selector settings are correct. If there are 100 people leaving in the space of five minutes and in that time it is only possible to check ten, the maximum percentage setting for the selector should be ten percent.

How can you tell if the unit is working?

If the 10% checked are clear, then the chances are so are the other 90%. Every minute, every day of the year the Random Search Scheme can be operated. Options to make the Search Scheme more effective are :-

- Advertise the searching at all entry points, make a clear statement of policy...

"Deterrence not Detection"

- The selector can (via one of the optional remote units) trigger a video recording system which would not only oversee the selection procedure, but could also ensure that the checks are conducted correctly at all times.

This type of installation can be advantageous on sites operating 24 hours a day.

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