

The Front Door Reporting Switch (S02)

The front door reporting switch informs the software of the open status of the front door. It is used for status reporting to the FFIU and to initiate the table up action when the door is closed. It creates a hard stop condition if the door is open while the stacker is currently stacking (this is normally prevented by Y03).

The Front Door Solenoid (Y03)

The front door solenoid is activated whenever the stacker is currently stacking. The solenoid is not part of the safety scheme. The activation of the front door solenoid merely prevents a hard stop which would occur if the front door is open while stacking.

The Top Cover

The top cover features a safety switch with reporting.

The Top Cover Safety Switch (S04)

The top cover safety switch removes the power to all actuators when the top cover is open.

The Top Cover Reporting Switch (S05)

The top cover reporting switch informs the software of the open status of the top cover. It is used for status reporting to the FFIU and to initiate a warm boot when the top cover is closed.

Opening the top cover while the stacker is running creates an unconditional hard stop condition.

The tacho wheel (B06)

The tacho wheel belongs intrinsically to the brushless DC motor. It is used as an input to the feedback loop that controls the machine speed, and as distance measurement in the jam detection process.

The over-current monitor (S07)

The low-voltage power is protected by a “Polyswitch”. The status of this protection device is monitored on the board.

When the “Polyswitch” is monitored as "open", the stacker becomes off-line and a (TBD) status can be returned to the FFIU.

Keyboard

The keyboard communicates with the main electronics through a serial (RS-485) link.

The keyboard has :

- One switch to move the table down(S70)
- Twelve switches for the maintenance(S80 to S91)
- Five LEDs, or LED blocks, for the mimic display (H70 to H74)
- Eight hex-digit LED displays (H80 to H87)

The Table Down Switch (S70)

The table down switch starts down movement when in stand by or diagnostics state. Tray goes to the bottom then door latch is released.

The Maintenance Switches (S80 to S91)

The twelve maintenance switches are covered in normal operation. The maintenance switches are used to perform maintenance operations.

The Jam Position LEDs (H70 to H74)

These LEDs, or LED blocks, are fitted within a symbolic (mimic) diagram of the paper path and indicate where the jam was detected.

The Hex-Digit Display (H80 to H87)

The hex-digit display is used to display fault codes and in the maintenance operations. (see section 6)