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SLC4000TechNote24_RelayAndVernierSwitchingPoints.docx
Rev 06/24

Switch points are dependent on the total quantity of system relays-in-service, defined by the SLC4000 on-board DIP switches.

Given:

MaxCmdVal is the maximum command value

MinCmdVal is the minimum command value

Span is the total MaxVal minus MinVal

QtySysRlys is the total system relays-in-service

CmdPerRelay =Span/QtySysRlys

Firmware V5.26 and earlier

- The initial step turns on at **CmdPerRelay/2**.
- Each step turns ON at an additional **CmdPerRelay** value.
- Hysteresis around each switching point prevents hunting with noisy signals
- SLC4000-8-01 and -03 only
 - Alternate Relay #8 AnyOn turns on before the initial relay turns on whenever there is vernier output.

Firmware V5.27 and later

- The initial step turns on at a command equal to a full **CmdPerRelay** value. **This change is to increase the immunity for a noisy command signal. This is especially important for systems with large quantity of system relays to ensure that all relays turn OFF.**
- No changes to the switch points for the remaining relays or Alternate Relay #8 AnyOn operation.

If you have any questions or need assistance for specific configurations, call or email us.