Application Notes

HSE

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Installation

1) The HSE allows for up to 7 user programmable presets positions, assigned to the A, B, C, D, E, F and PRESET commands. These are defaulted at 7 evenly spaced intervals throughout the 90 degree arc of the mechanism.

2) Use the Future Automation IR remote to set each programmable position

3) Move the mechanism to the required position using [IN], [OUT] and [STOP]

4) Press [STORE] followed no more than 2 seconds later by the key associated with your chosen preset.

Referencing

A newly supplied mechanism will not need referencing as this has already been done prior to dispatch.

Referencing is a process which must be performed whenever the mechanism needs to "learn" the limits of its own travel. Some service/maintenance procedures may require the unit to be re-referenced.

Referencing when installing a new chip
1) Press [IN] until the mechanism stops at its fully closed position
2) Press [OUT] until the mechanism stops at its full 90 degrees switch
3) The mechanism is now referenced

Referencing after adjusting or replacing a potentiometer
1) Press [STORE] [STORE] [HOME] to perform a factory reset (note: this will remove any previously stored viewing angles)
2) Press [IN] until the mechanism stops at its fully closed position
3) Press [OUT] until the mechanism stops at its full 90 degrees switch
4) The mechanism is now referenced
5) Reprogram the required viewing angles (follow the instructions in the Installation Section above)

Adjusting the docking speed (only available for mechanisms supplied after 02 / 2017)

Do not alter docking speed unless specifically advised by Future Automation.

The default docking speed is suitable for the entire weight range of this mechanism and **should not need to be adjusted**. It is set at a value which optimally dampens any shaking caused by loss of momentum as the mechanism stops.

However, in exceptional circumstances docking can be adjusted as follows

a) [STORE] [STORE] [>] - fractionally increases the docking speed

b) [STORE] [STORE] [<] - fractionally decreases the docking speed

c) Successive adjustments can be used in this way to tailor docking speed to specific requirements.

Factory Reset

Completely restores the mechanism to all default settings. NOTE: the mechanism must be fully referenced again after a factory reset. Any viewing angles or customized docking speeds will need to be reprogrammed.

Controlling the Mechanism

- RS232 commands are all terminated with carriage return but no line feed. In Crestron this is represented by \r
- IR sequences involving multiple key-presses require each successive key to be pressed within 2 seconds

IR Sequence	RS232	CC Pin	Action	Comments
IN	fa_in	Pin 8 Or Pin 5 short removed	System fully in	
OUT	fa_out	Pin 7	System fully out	
STORE A			Store current position as Preset A	Inactive when not referenced
STORE B			Store current position as Preset B	Inactive when not referenced
STORE C			Store current position as Preset C	Inactive when not referenced
STORE D			Store current position as Preset D	Inactive when not referenced
STORE E			Store current position as Preset E	Inactive when not referenced
STORE F			Store current position as Preset F	Inactive when not referenced
STORE PRESET			Store current position as Preset PRESET	Inactive when not referenced
A	fa_a		Move to Preset A	Inactive when not referenced
B	fa_b		Move to Preset B	Inactive when not referenced
C	fa_c		Move to Preset C	Inactive when not referenced
D	fa_d	Pin 5 shorted	Move to Preset D	Inactive when not referenced
E	fa_e		Move to Preset E	Inactive when not referenced
F	fa_f		Move to Preset F	Inactive when not referenced
PRESET	fa_preset		Move to Preset PRESET	Inactive when not referenced
STOP	fa_stop	Pin 6	Stop Mechanism	Inactive when not referenced
STORE STORE HOME			Factory reset	Mechanism must be referenced and the viewing angles re programmed after a factory reset

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