

The Focus control are located on the MCC2 GUI Tab.
Details are located in MCC/Details/FIOC.
The ic/fioccfocus.c program controls the focus control.
Summary of the focus program:
User Variables:
int enable; / UI: enable control loop $[0=$ off $1=$ on $]$
float dpos; $/ / \mathrm{U}$ : reauested Focus position as volta
fllaat dpos;
float apos;
/ U: A: requested Focus position as voltage
//

Digital Output:
FIIC_DO_Focus_In - opto 22 logic: $:=$ =stop; $1=$ focus in
FIOCDO

FIOC DO Focus opto 22 logic: $0=0 \mathrm{on} ; 1=0$ ff
Analog_Inputs:
FIOC_AI_Focus_R_
Summary of Logic:
apos is the focus position, the relay board reduces the voltage by $2 / 3$ to
bring the +1 15v bring the $+/$-1sv range to within $+/-10$ volts of the opto22 A2D. The
focus program, multiple the opto 22 A2D input by 1.5 for focus.apos focus.apos $=$ FIOC_AI_Focus _Pos $* 1.5$;

The operator must set focus.enable ON to allow changes in the focus.
When focus.enable is ON , the focus program tries to position the focus.apos
To move the focus In:
To move the focus in:
FIOC_DO Focusin
FInC-DO
FIO

FIOC-DO-Focus $B r a l$
To move the focus Out:
FIOC_DO_Focus_In
FICOCDO-Focus $\mathrm{Out}=1$
FIOC DO Fouss Brake $=1$
FIOC-DO_Focus_Br:
FIOC_DO_Focus_In =0
FIOC_DO_Focus_Out $=0$
FIOC_DO_-Focus_Brake $=0$
When trying to move the focus mechanism, if the voltages does not change
within 1.5 seconds, a stuck flag is set to olert the operate


| Schemaic Reference |  |
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| $710-459$ | Tube Ring Cable Haness |
| $710-460$ | Tube Ring Electronics |
| $710-461$ | Chopping Secondary Asy |
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