

<u>Signal Description</u>	<u>Start</u>	<u>Destination</u>
<u>N/S Translation Stage -</u>		
	<u>N/S Terminal strip</u>	<u>MS3116F-12-8P</u>
Limit Switch Inside - Normally Closed	10 wht	A blu
Limit Switch Inside - Normally Closed	12 grn	B org
Limit Switch Outside - Normally Closed	11 blu	C grn
Limit Switch Outside - Normally Closed	10 gry	D wht
	<u>TA100 Amplifier</u>	
N/S Motor Output +	M+ red	E red
N/S Motor Output -	M- blk	F blk
<u>E/W Translation Stage -</u>		
	<u>E/W Terminal strip</u>	<u>MS3106A-14S-8P</u>
Limit Switch Inside - Normally Closed	35 wht	A wht
Limit Switch Inside - Normally Closed	37 grn	B grn
Limit Switch Outside - Normally Closed	36 blu	C blu
Limit Switch Outside - Normally Closed	35 gry	D org
	<u>TA100 Amplifier</u>	
E/W Motor Output +	M+ red	E red
E/W Motor Output -	M- blk	F blk
<u>Focus Translation Stage 1 and 2-</u>		
(There are 2 connectors for the motor output)	<u>12A8 Amplifier</u>	<u>MS3106A-14S-8P</u>
Focus Motor Output+	2 blk	B red - red
Focus Motor Output-	1 red	E blk - blk
Focus Motor Output+	2 blk	B wht - red
Focus Motor Output-	1 red	E grn - blk
<u>Focus Brakes -</u>		
(120 Volts routed to 4 brake solenoids)	<u>D1210-5 Relay</u>	<u>MS3106E-14S-6P</u>
Brake	1 blk	A org - blk
Brake	120 VAC wht	C blu - wht
<u>Focus Position -</u>		
(Connected to +/-15 through a voltage divider)		<u>MS3106E-14S-6P</u>
+10Vdc	divider pc card - red	D red - yel
-10Vdc	divider pc card - blk	F wht - grn
	<u>Diamond A/D</u>	
Output	16 brn	E org - red
Ground (Tied ground to +/-15V power supply)	17 blk	

E/W LVDT Position Indicator

	<u>Diamond A/D</u>	<u>MS3106A-14S-6P</u>
Output - (+/- 10 Volt range)	14 - red	A
Ground	19 - blk	D
	<u>+/-15Vdc PS</u>	
+15V	+15Vdc	E
-15V	-15Vdc	F

N/S LVDT Position Indicator

	<u>Diamond A/D</u>	<u>PT06W-10-6P</u>
Output - (+/- 10 Volt range)	13 - org	A
Ground	20 - blk	D
	<u>+/-15Vdc PS</u>	
+15V	+15Vdc	E
-15V	-15Vdc	F

Focus Limit Switches

	<u>Focus Term Strp</u>	<u>MS3106E-14S-6P</u>
Inside Switch (Closest to center of unit)	12 - wht	B blu - wht
Inside Switch	10 - blk	F gry - wht
Outside Switch (Closest to edge of unit)	11 - red	E grn - grn
Outside Switch	10 - blk	D org - red

Parallel Port

	<u>J3 - CPU</u>	<u>MS3112E14-18S</u>
Strobe/	19 - wht	A
D0	21 - wht	B
D1	23 - wht	C
D2	25 - wht	D
D3	27 - wht	E
D4	29 - wht	F
D5	31 - wht	G
D6	33 - wht	H
D7	35 - wht	J
ACK/	37 - wht	K
Busy	39 - wht	L
P.End	41 - wht	M
Select	43 - wht	N
Autofeed/	20 - wht	P

Error/	22	R
Init/	24	S
Select input/	26	T
Ground	28	U

Focus Incremental Encoder

	<u>Focus Term Strp</u>	<u>MS3112E14-18S</u>
B'	6 pnk	A
+5Vdc	1 blu	B
Z	7 red	C
Z'	8 blk	D
A	3 brn	E
A'	4 grn	F
B	5 gry	H
Ground	2 shield	J
Ground	2 wht/grn	K
Ground	2 wht	L
+5Vdc	1 brn/grn	M

E/W Incremental Encoder

	<u>E/W Term Strp</u>	<u>MS3112E14-18S</u>
B'	6 pnk	A
+5Vdc	1 blu	B
Z	7 red	C
Z'	8 blk	D
A	3 brn	E
A'	4 grn	F
B	5 gry	H
Ground	2 shield	J
Ground	2 wht/grn	K
Ground	2 wht	L
+5Vdc	1 brn/grn	M

N/S Incremental Encoder

B'
+5Vdc
Z
Z'
A
A'
B
Ground
Ground
Ground
+5Vdc

N/S Term Strp

31 pnk
26 blu
32 red
33 blk
28 brn
29 grn
30 gry
27 shield
27 wht/grn
27 wht
26 brn/grn

MS3112E14-18S

A
B
C
D
E
F
H
J
K
L
M