

Automatic Planet Finder Spectrograph Amplifier I/O Connectors

Amplifier A (AUX ENC.)

| PIN | LABEL | SIGNAL NAME | FUNCTION |
|-----|------------|--------------------|---|
| 1 | 5 V | - | - |
| 2 | AAX+ | ADC_AUX_CHANNAL_A+ | ADC AUXILIARY ENCODER |
| 3 | ABX+ | ADC_AUX_CHANNAL_B+ | ADC AUXILIARY ENCODER |
| 4 | AAZ+ | CAM_AUX_CHANNAL_A+ | GUIDE CAMERA FOCUS AUXILIARY ENCODER |
| 5 | ABY+ | CAM_AUX_CHANNAL_B+ | GUIDE CAMERA FOCUS AUXILIARY ENCODER |
| 6 | 5 V | - | - |
| 7 | AAZ+ | CAM_AUX_CHANNAL_B+ | CALIBRATION SOURCE MIRROR AUXILIARY ENCODER |
| 8 | ABZ+ | CMR_AUX_CHANNAL_B+ | CALIBRATION SOURCE MIRROR AUXILIARY ENCODER |
| 9 | AAW+ | CAL_AUX_CHANNAL_A+ | CALIBRATION LAMP STAGE AUXILIARY ENCODER |
| 10 | ABW+ | CAL_AUX_CHANNAL_B+ | CALIBRATION LAMP STAGE AUXILIARY ENCODER |
| 11 | (RESERVED) | - | - |
| 12 | (RESERVED) | - | - |
| 13 | (RESERVED) | - | - |
| 14 | Ground | - | - |
| 15 | AAX- | ADC_AUX_CHANNAL_A- | ADC AUXILIARY ENCODER |
| 16 | ABX- | ADC_AUX_CHANNAL_B- | ADC AUXILIARY ENCODER |
| 17 | AAZ- | CAM_AUX_CHANNAL_A- | GUIDE CAMERA FOCUS AUXILIARY ENCODER |
| 18 | ABY- | CAM_AUX_CHANNAL_B- | GUIDE CAMERA FOCUS AUXILIARY ENCODER |
| 19 | Ground | - | - |
| 20 | AAZ- | CMR_AUX_CHANNAL_A- | CALIBRATION SOURCE MIRROR AUXILIARY ENCODER |
| 21 | ABZ- | CMR_AUX_CHANNAL_B- | CALIBRATION SOURCE MIRROR AUXILIARY ENCODER |
| 22 | AAW- | CAL_AUX_CHANNAL_A- | CALIBRATION LAMP STAGE AUXILIARY ENCODER |
| 23 | ABW- | CAL_AUX_CHANNAL_B- | CALIBRATION LAMP STAGE AUXILIARY ENCODER |
| 24 | (RESERVED) | - | - |
| 25 | (RESERVED) | - | - |

Amplifier B (AUX ENC.)

| PIN | LABEL | SIGNAL NAME | FUNCTION |
|-----|------------|--------------------|-------------------------------|
| 1 | 5 V | - | - |
| 2 | AAX+ | IOD_AUX_CHANNAL_A+ | IODINE CELL AUXILIARY ENCODER |
| 3 | ABX+ | IOD_AUX_CHANNAL_B+ | IODINE CELL AUXILIARY ENCODER |
| 4 | AAZ+ | SLT_AUX_CHANNAL_A+ | SLIT DECKER AUXILIARY ENCODER |
| 5 | ABY+ | SLT_AUX_CHANNAL_B+ | SLIT DECKER AUXILIARY ENCODER |
| 6 | 5 V | - | - |
| 7 | AAZ+ | DEW_AUX_CHANNAL_A+ | DEWAR FOCUS AUXILIARY ENCODER |
| 8 | ABZ+ | DEW_AUX_CHANNAL_B+ | DEWAR FOCUS AUXILIARY ENCODER |
| 9 | AAW+ | - | - |
| 10 | ABW+ | - | - |
| 11 | (RESERVED) | - | - |
| 12 | (RESERVED) | - | - |
| 13 | (RESERVED) | - | - |
| 14 | Ground | - | - |
| 15 | AAX- | IOD_AUX_CHANNAL_A- | IODINE CELL AUXILIARY ENCODER |
| 16 | ABX- | IOD_AUX_CHANNAL_B- | IODINE CELL AUXILIARY ENCODER |
| 17 | AAZ- | SLT_AUX_CHANNAL_A- | SLIT DECKER AUXILIARY ENCODER |
| 18 | ABY- | SLT_AUX_CHANNAL_B- | SLIT DECKER AUXILIARY ENCODER |
| 19 | Ground | - | - |
| 20 | AAZ- | DEW_AUX_CHANNAL_A- | DEWAR FOCUS AUXILIARY ENCODER |
| 21 | ABZ- | DEW_AUX_CHANNAL_B- | DEWAR FOCUS AUXILIARY ENCODER |
| 22 | AAW- | - | - |
| 23 | ABW- | - | - |
| 24 | (RESERVED) | - | - |
| 25 | (RESERVED) | - | - |

Amplifier A (ANALOG)

| PIN | LABEL | SIGNAL NAME | FUNCTION |
|-----|----------------|----------------|-------------------------------|
| 1 | Ground | Ground | Ground |
| 2 | Analog input 1 | Temperatures_1 | Temperature inputs 1-8 |
| 3 | Analog input 3 | Temperatures_3 | Temperature inputs 17-24 |
| 4 | Analog input 5 | Temperatures_5 | Temperature inputs 33-40 |
| 5 | Analog input 7 | - | - |
| 6 | Ground | Ground | Ground |
| 7 | -12 V | - | -12 V monitor and board power |
| 8 | 5 V | - | Controller 5V monitor |
| 9 | Ground | Ground | Ground |
| 10 | Analog input 2 | Temperatures_2 | Temperature inputs 9-16 |
| 11 | Analog input 4 | Temperatures_4 | Temperature inputs 25-32 |
| 12 | Analog input 6 | Temperatures_6 | Temperature inputs 41-48 |
| 13 | Analog input 8 | - | - |
| 14 | Ground | Ground | Ground |
| 15 | +12 V | - | +12 V monitor and board power |

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| UNIVERSITY OF CALIFORNIA LICK OBSERVATORY | | APF SPECTROGRAPH GALIL CONNECTOR WIRING | |
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