**D1200934**

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| **Front Panel** | | | | | | |
| **Position sensor inputs from Thorlabs PDP90A** | | | | **Qty: 4** | | |
| Input voltage range (max.) | | [-4V, 4V] | | | | |
| Connector on cable | | Hirose HR10A-7P-6P | | | | |
| Connector on panel | | Hirose HR10A-7R-6S | | | | |
| Distance to Sensor | | ~ 6 feet | | | | |
| Supply voltage | | +/- 5V DC +/- 5%, 35mA | | | | |
| Type of output: | | Voltage | | | | |
| Sensor bandwidth | | 15 kHz | | | | |
| **Pin out** | **Assignments** | | **Pin out** | | **Assignments** | |
| Pin 1 | X-axis voltage from sensor | | Pin 4 | | +5V supply | |
| Pin 2 | Y-axis voltage from sensor | | Pin 5 | | Common | |
| Pin 3 | Sum voltage from sensor | | Pin 6 | | -5V supply | |
| **Temperature sensor input** | | | | **Qty: 6** | | |
| Connector on cable | | DB9 female | | | |
| Connector on panel | | DB9 male | | | |
| Pin 1 | | R+ | | | |
| Pin 6 | | R- | | | |
| Pin 2 | | RL+ | | | |
| Pin 7 | | RL- | | | |
| **12V to camera** | | **Qty: 2** | | | |
| Connector on cable | | DB9 male | | | |
| Connector on panel | | DB9 female | | | |
| Voltage | | 12V at CCD | | | |
| Current | | < 1.4A | | | |
| Distance to Camera | | | | < 10 feet | | |
| Pin outs | | Pins 1,2,3: 12V. (See D1101941) | | | | |
| **5V to camera** | | **Qty: 2** | | | | |
| Connector on cable | | DB9 male | | | | |
| Connector on panel | | DB9 female | | | | |
| Voltage | | | | 12V at CCD | | |
| Current | | < 600mA | | | | |
| Distance to C-Link | | < 10 feet | | | | |
| Pin outs | | Pins 4: 5V. (See D1101941) | | | | |

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| **Internal signal conditioning** | | | |
| **Position sensor inputs from Thorlabs PDP90A** | | | **Qty: 4** |
| Signal voltage | Single ended (front panel) to differential (back-panel) | | |
| Supply voltage | Regulated from 12V input on back panel to 5V.?? | | |
| Supply voltage | Regulated from 12V input on back panel to -5V.?? | | |
| Gain | 2x gain | | |
| Poles | 2 poles at 8Hz | | |
| **Temperature sensor signals** | | **Direct feedthrough to back-panel. No conditioning** | |
| **12V to camera** | | **Direct feedthrough to back-panel via 5V TTL activated switch** | |
| **5V to camera** | | **Direct feedthrough to back-panel via 5V TTL activated switch** | |

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| **Back Panel** | | |
| **Position detector connector** | | **Qty: 1** |
| Connector on panel | DB37 female | |
| Pin outs | Mate to D1102205 | |
| **RTDs/switches** | **Qty: 1** | |
| Connector on panel | DB25 male | |
| Pin outs | Mate to D1102205 | |
| **Power connector** | **Voltage** | |
| Connector on panel | 5-Pin Conec male | |
| Pin outs | Pin1: GND, Pin2: NA, Pin3: -5V, Pin4: +5V, Pin 5: +13V | |