**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 |