



SPIRE Technical Note

Ref: SPIRE-RAL-NOT-002660

Issue: 1.0

Date: 17 May 2006

Page: 1 of 2

Background detector harness wiring and checkout
B. Swinyard/ E Sawyer

The wiring for background detector to be used for the stray light tests within the STM/PFM Herschel cryostat is described her.

The table below is a record of the checks carried out when the detector was installed and connected to the cryoharness C1 P10 on 9 September 2003. For reference only

Connection Name	Pin on Detector Connector	Pin on MDM on detector lead	Pin on D-Type (after cryoharness installed)	Checked end to end on cryostat (S1 J32)
Reset	1	17	17	140 Ω
Gnd	2	26	26	7 Ω
VB	3	15	15	146 Ω
VSS	4	35	35	144 Ω
Thermometer	5	1	1	140 Ω
SigOut	6	13	13	141 Ω
Heater	7	22	22	141 Ω
VDD	8	32	32	144 Ω
Thermometer	9	20	20	148 Ω
Compensation	10	10	10	144 Ω
Screen	N/C	12	12	7 Ω

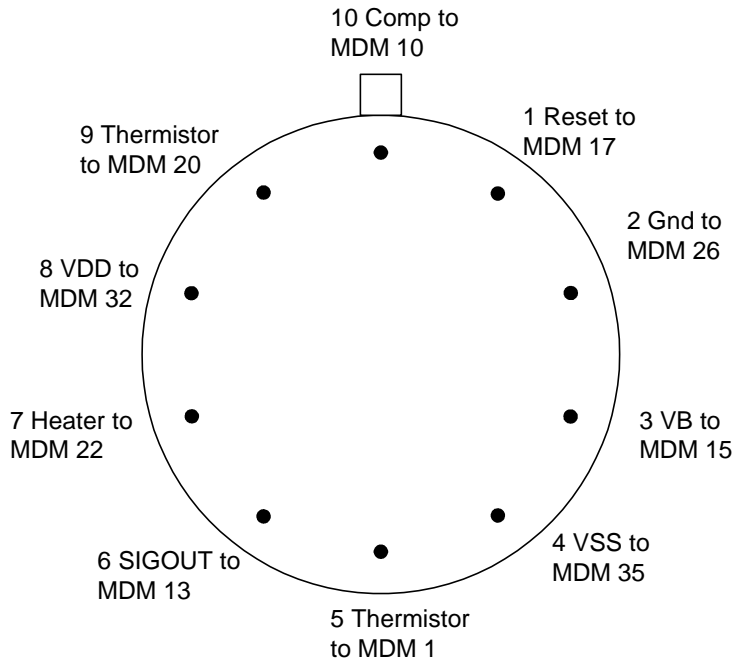
Pin to pin continuity checks to be carried out as part of the SPIRE integration procedure. 23/5/06

Description	Pins	Measured Resistance One way round	Expected value	The other way round	Expected value
Heater to VDD	22 – 32	6.17K	6.28 k Ω	6.18K	Same
Sigout-VDD	13 - 32	50.85K	50.4 k Ω	50.58K	Same
Sigout - VSS	13 - 35	48.85K	50.3 k Ω	50.75K	Same
Reset-Gnd	26-17	OC	850 Ω	OC	O/C

No functional tests can be carried out warm.



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Rear view of free socket fitted to back of photo-detector block. MDM referred to is the spectrometer bias tail on C1 P10 (see Harness definition documents SPIRE-RAL-PRJ-000608 v1.1 section 4.4.1)

Detector connector wiring for reference only