VERY LARGE TELESCOPE

ASM LCU,
Signal Description.

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CHANGE RECORD.

Issue:	Date:	Section/Page affected:	Comments:
Draft 1	17 Dec. 1996	All:	First draft.
Draft 2	15 Jan. 1997	Ch. 1: Ch. 6:	'DIMM' changed into Seeing Monitor. Added.
Draft 3	3 Mar. 1997	Ch. 2, 3, 4:	DB change, see ch. 2.

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1. INTRODUCTION

This document describes the signal abbreviations for the VLT ASM LCU.
The Seeing Monitor telescope has axis A1 (Eta) and A2 (Theta). These are to a high extend identical from a functional point of view. Therefore, the description applies to each of them, unless explicitly noted otherwise.

1.1. SIGNAL TYPES

This document utilises the following abbreviations for the signal types:

Type	Description
D	Digital signal, individual bit
DS	Digital bus signal, defined as individual bit (for h/w)
DM	Digital bus signal, defined as bus (for s/w)
A	Analog signal

1.2. AXES

Most signals that are used in the A1 axis are also used in the A2 axis.
In tables where there are differences between the two axes, this is indicated according:

Axis	Description
A1	Signal is used in A1 (ETA) axis.
A2	Signal is used in A2 (THETA) axis.
-	Not defined (spare signal).
NA	Not applicable

2. CONFIGURATION INFORMATION

This document was generated from a Database. The Database contains all the signal descriptions and the queries to generate the tables in this document. Changes in the Database affect therefore directly the contents of this document.

The table below shows the Change Record of the Database as it is at the time of printing of this document.

Issue	Date	Affected	Comment
Draft 1	17 Dec 1996	All	First draft.
Draft 2	3 Jan 1997	1. Dig signals 2. Query 's/w assignment.	1. High true / low true added. 2. Output sorted in dig and ana signals.
Draft 3	14 Jan. 1997	1. Signals 2. Query's	1. N/S sensing added. 2. 'Other signals' added
Draft 4	3 Mar. 1997	1. Signals	1. AxVSI: logic sense inverted. AxILRANGEI*: 2 signals added.

3. A1 (ETA) SIGNALS

Note: The encoder is directly connected to the IK320 board.

SignalName	Type	Description	Override with

			switch
A1EPSELI*	D	A1 Engineering panel select (manual velocity control)	N/A
A1ILENABO*	D	A1 Interlock enable.	y
A1ILPAPOWI*	D	A1 Power amplifier powered.	N/A
A1ILRANGEI*	D	A1 interlock at end of operational range	y
A1IMONI	A	A1 motor current monitor	
A1VREFO	A	A1 velocity reference command	
A1VSI*	D	A1 Vicinity switch detected.	

4. A2 (THETA) SIGNALS

Note: The encoder is directly connected to the IK320 board.

SignalName	Type	Description	Override with switch
A2EPSELI*	D	A2 Engineering panel select (manual velocity control)	N/A
A2ILENABO*	D	A2 Interlock enable.	y
A2ILPAPOWI*	D	A2 Power amplifier enabled.	N/A
A2ILRANGEI*	D	A2 interlock at end of operational range	y
A2IMONI	A	A2 motor current monitor	
A2VREFO	A	A2 velocity reference command	
A2VSI*	D	A2 Vicinity switch detected.	

5. DOME SIGNALS

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6. OTHER SIGNALS

Note: Not (A1... Or A2... Or DOME... signals).

SignalName	Type	Description	Override with switch
LSNORTHI*	D	Telescope is pointing in North half sky	
LSSOUTHI*	D	Telescope is pointing in South half sky	

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