

The L option for the HDI; the (back panel) Lemo socket

Introduction

Many applications for the HDI require wire-ended probes to be connected to the controller via some wires from a larger wiring loom. These wiring looms frequently use connectors manufactured by Lemo SA or Fischer SA, because of the high density of pins with hermetically sealing that are available from these companies.

To facilitate the connection of the HDI to systems where these connectors are used, the HDI is available with the L option, and this corresponds to the installation of a Lemo connector on the back panel in place of the standard 7 pin connector.

The L option for the HDI

The L option corresponds to the fitting of an 8 pin series 1B Lemo socket to the back panel, and the supply of the mating connector. The standard probe cable(s) are not supplied when this option is specified, as it is expected that the customer will use the supplied Lemo plug as part of the whole wiring loom. Should two probes be wired to the connector, the HDI will operate as if the 2 option had been specified.

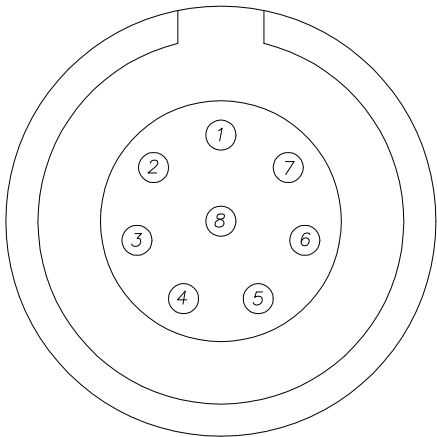
The separate pins of a Lemo connector are not explicitly numbered. Generally there is a white spiral marked on the back face of the connector, starting at pin 1 (which is indicated), and running inwards towards the centre, passing each of the pins in numerical order. For the supplied male connector, this spiral runs anti-clockwise when viewed from the solder pins.

The following table and diagram indicate the pins and their wiring within the HDI; the diagram shows the view of the back panel socket, and thus also to the solder pins of the supplied male connector. There are two specific points to note:

1. The screen (earth) connection, pin H of the standard 7 pin connector, is available via the standard screen connection of the Lemo plug.
2. The wiring of each of the four wires for the probe for channel A is distinct from those of the probe for channel B.

In addition, the HDI set-up parameter S25 should be set as S25 INP2

Pin number	Function	Channel
1	V+	B
2	I+	B
3	I+	A
4	V+	A
5	V-	A
6	I-	A
7	V-	B
8	I-	B



The wiring of the Lemo connector for the L option of the HDI