Lynx™ 7-Channel Sequence Input Module - ID7-D-SEQ

The ID7-D-SEQ is a DIN mountable Sequence Input Module that acts as an interface between machine operations and the *eDART* System™. With the Sequence Module, it is unnecessary to wire all of the machine signals. The *eDART*™ software takes what is easily available from the machine and derives the rest. This is important when implementing a network or installing on a portable basis because many times the signals are not readily available.

Always power down before working on any equipment.

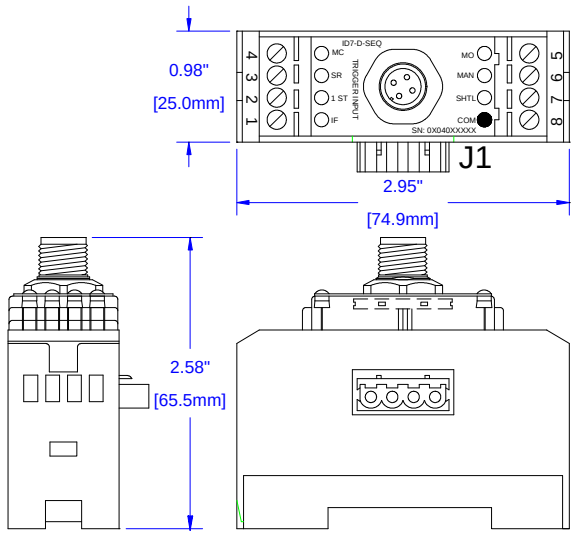

Figure 3: Lynx™ 7- Channel Sequence Input Module

The Sequence Module is designed for mounting on standard 35mm DIN rail often found in machine panels. Once mounted, connectors interface the unit with other Lynx™ DIN rail modules and with the *eDART* System™.

The digital signals are connected to the Sequence Module through the eight terminal connectors (see Figure 3). The signals themselves are connected to terminals 1-7 and the signal common for these is wired to terminal 8. These signals can be taken directly from the machine controller and can operate at 24VDC.

Connection	Function
Terminal 1	INJ Forward
Terminal 2	1st Stage
Terminal 3	Screw Run
Terminal 4	Mold Clamped
Terminal 5	Mold Opening
Terminal 6	Manual
Terminal 7	Shuttle Position
Terminal 8	Input Common

Table 3: Sequence Input Module Terminal Connections

Technical Specifications	
Power (supplied by eDART)	12VDC
Current Draw	45mA
Absolute Maximum Input Voltage	36VDC
Minimum Trigger on Voltage	18VDC

Table 4: Sequence Input Module Technical Specifications

The sequence module can be interfaced with a machine output card as shown in the figure below. See Table 4 for voltage ranges. The Sequence Module inputs these voltage signals using an opto-isolated circuit to ensure full isolation from the machine controller.

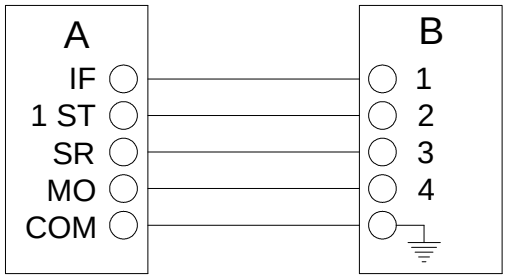

Figure 4: Input Module Interfacing with a machine output card

Wiring Machine Signals

In order to perform important computations necessary for successful injection molding processes, the *eDART*™ must have accurate sequence signals from the machine controller. These signals indicate to the *eDART*™ when important events occur during the machine cycle and they help synchronize signals from the hydraulic and mold pressure sensors to the actions of the machine for display in the software.

Always power down before working on any equipment.