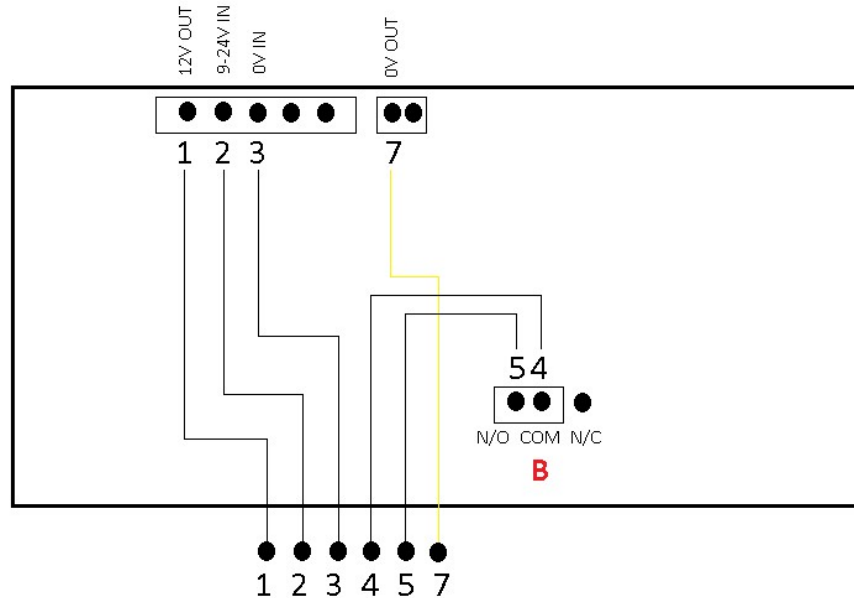


## Digital 9000 Range

**105108 No Connector – Volt Free Start/Stop**

**105238 No Connector – 9V-24V Start/Stop**



**FILTER CONDITION ALARM** (Changeable between N/O and N/C in the setup menu)

*For instructions on how to change in the setup menu see page 19*

N/O (Normally Open)

With the relay condition set to N/O (Normally Open) on the set up menu the relay (B) will remain closed, shorting the connection between the Red wire (Pin 4) and the Blue wire (Pin 5) until the machine gives a filter alarm. When this happens, the contacts on the relay (B) will open breaking the connection between the Red wire (Pin 4) and the Blue wire (Pin 5).

N/C (Normally Closed)

With the relay condition set to N/C (Normally Closed) on the set up menu the relay (B) will remain open breaking the connection between the Red wire (Pin 4) and the Blue wire (Pin 5) until the machine gives a filter alarm. When this happens, the contacts on the relay (D) will close shorting the connection between the Red wire (Pin 4) and the Blue wire (Pin 5).

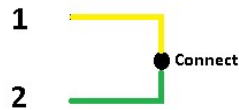


## STOP/START

In the 9000 range there is a remote start relay which when activated will start the machine remotely. This can be done via a volt free connection.

### Volt Free Start – 105108 Cable

Close the connection from the Yellow (Pin 1) “12V out”, to the Green (Pin 2) “9V-24V in” to start the machine. Break the connection between the Yellow (Pin 1) “12V out” to the Green (Pin 2) “9V-24V in” to stop the machine.

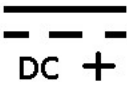
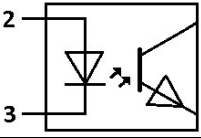
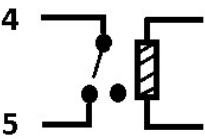
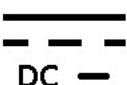


### 9-24V External Signal Voltage – 105238 Cable

To start the machine using an external voltage (for example a signal from a laser); Connect the external source (9-24VDC) to the Green (Pin 2) “9V-24V in” and the external source (0V) to the Yellow (Pin 3) “0V in”. To stop the machine, disconnect the external voltage (9-24VDC) to the Green (Pin 2).

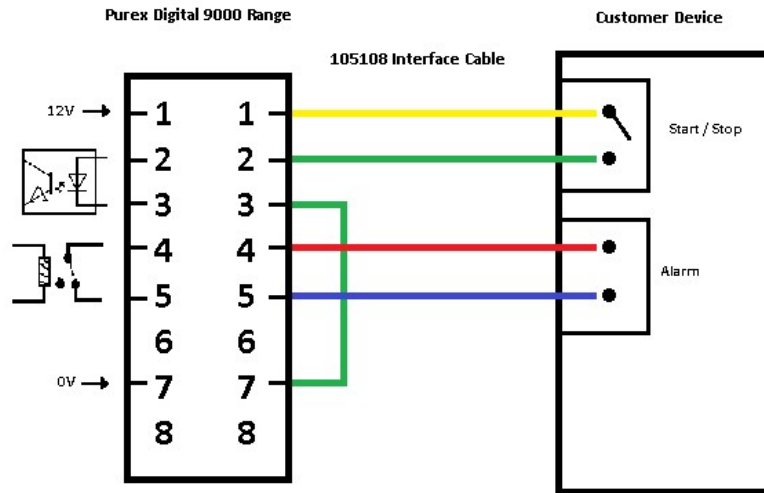


**Pin Out Descriptions**

Interface 8 way Female Lumberg		Label	Description
Pin 1		12V out	+12V DC Voltage Source. Do Not Apply Voltage.
Pin 2		9V-24V in	Remote Start opto-isolator. A 9-24V signal across pins 2 and 3 will start the machine.
Pin 3	See picture on Pin 2	0V in	Remote Start opto-isolator. A 9-24V signal across pins 2 and 3 will start the machine.
Pin 4		Alarm Relay (COM)	Alarm contacts between pins 4 and 5 will close/open depending on the software settings, when an alarm is activated.
Pin 5	See picture on Pin 4	Alarm Relay (NO)	Alarm contacts between pins 4 and 5 will close/open depending on the software settings, when an alarm is activated.
Pin 6	Not Used	-	No Functional Use
Pin 7		0V out	0V (GND) Voltage Source. Do Not Apply Voltage.
Pin 8	Not Used	-	No Functional Use

### Connection Example

Using a 105108 cable the machine can be controlled remotely volt free. Below is an example connection to a host machine. This connection is volt free, **do not apply voltage**.



Using a 105238 cable the machine can be controlled remotely with a 9-24V signal. Below is an example connection to a host machine.

