

## Midexx Connection to Injection and Extrusion Machines

### Connect Midexx to an Injection Molding Machine.

To Connect a Midexx to an Injection Molding Machine for synchronization a screw recover signal is required. Molding machines provide this signal in one of the following formats.

- 12V to 24VAC/DC Signal
- 120-240VAC signal
- Relay contact closure (Dry Contact).

The Midexx has been designed to accept this screw recovery signal as a voltage form 24-240VAC/DC from the “SIGNAL INPUT” or as a contact closure (Dry Contact) from the

AUX Port INPUT with and Auxiliary Port Adaptor Cable.

### Connection with a Live signal from the Signal Port. (24-240 V AC/DC)

On the Midexx the Signal 24-240 VAC Signal is available on the rear panel of the Midexx and the connection is a standard IEC Receptacle.

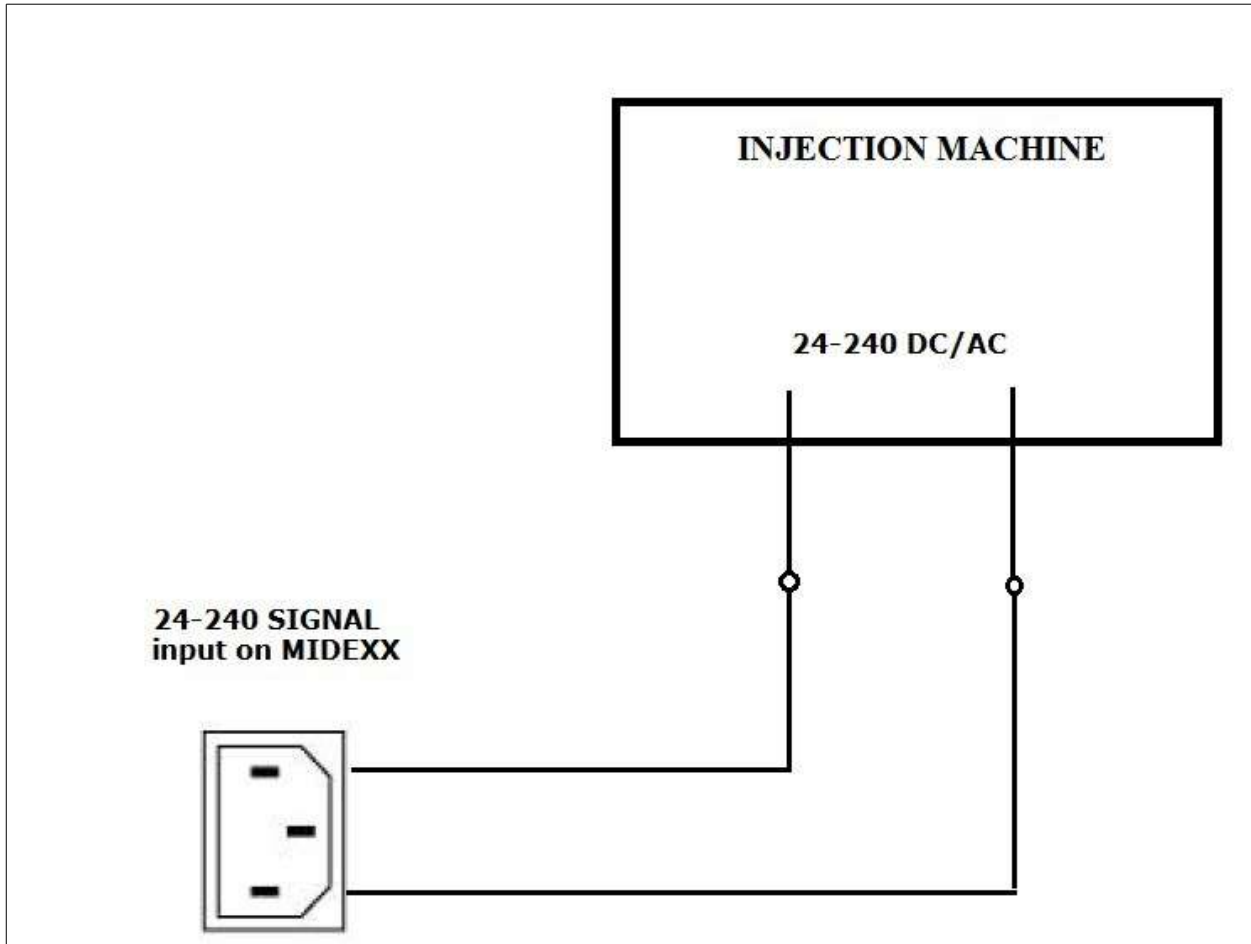


#### Signal

Signal cable input is typically the screw recovery signal for an injection molding machine.

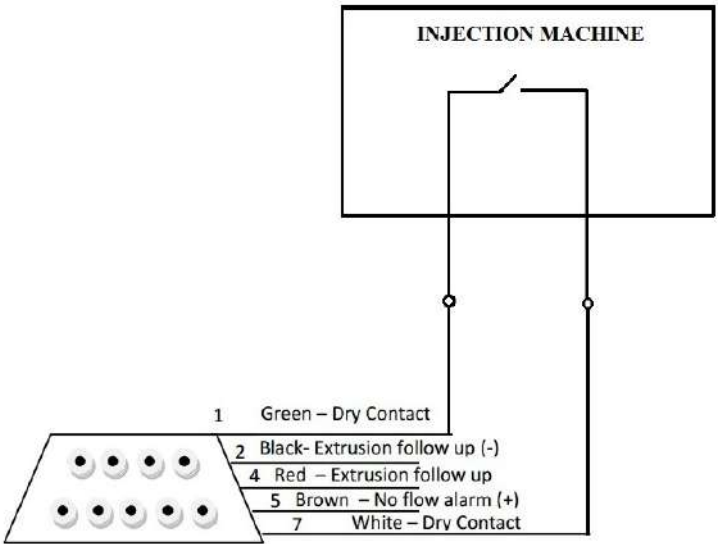
(24-240 VAC/DC)

An IEC Cable is provided with the Midexx and this can be cut and a standard connector pair added to the Molding Machine. An Alternative is to hard-wire the cable to the Molding Machine and mark the IEC end of the cable with a “MIDEXX SIGNAL” label.

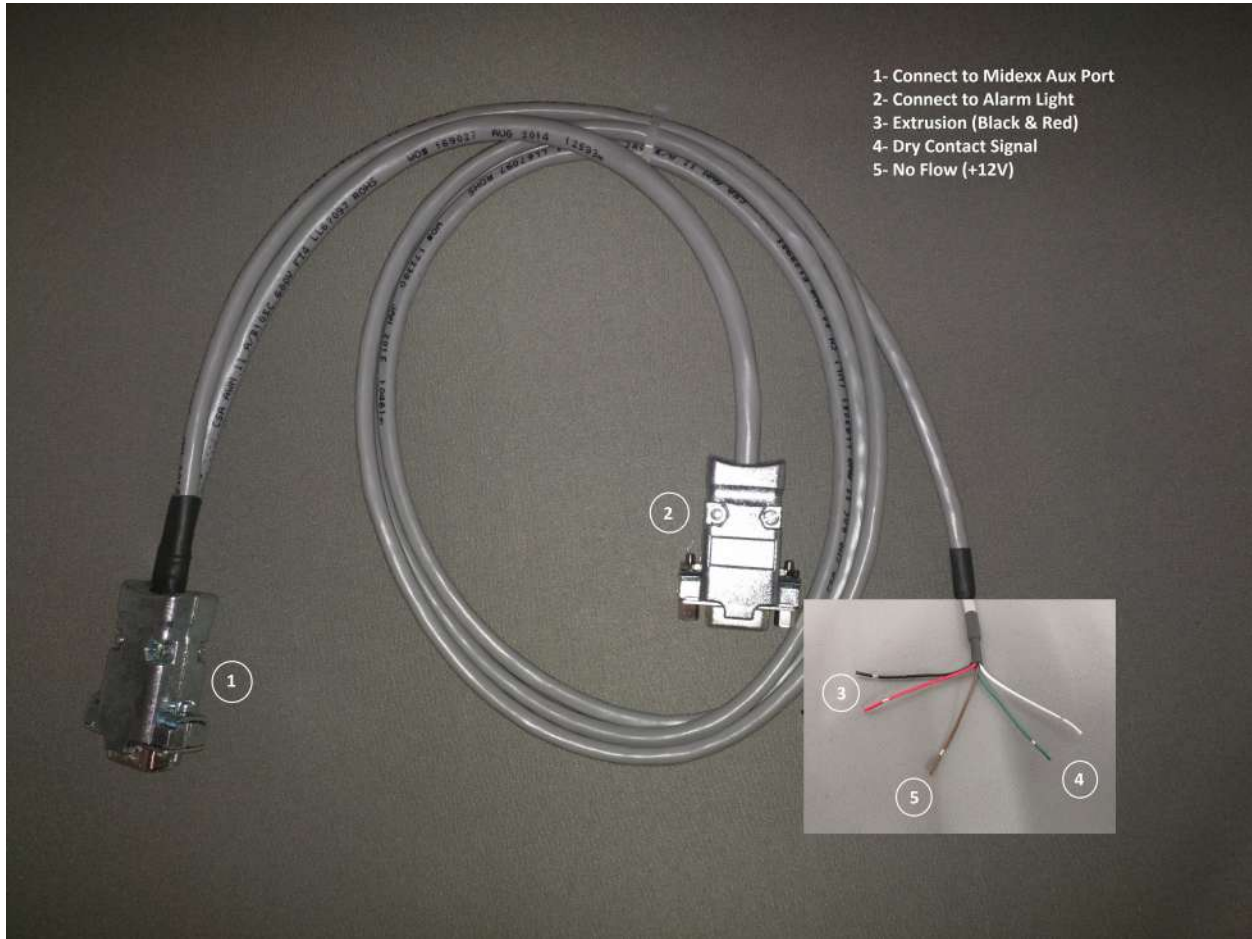


### Connection of a Molding Machine with a Relay Contact (Dry Contact)

On the Midexx the Dry Contact input is available from the Auxiliary Port Input. To use this connection you will need to connect the Auxiliary Port Cable to the DB -9 Connector on the Back of the Midexx. Make sure to tighten the connector screws top and bottom of connector.



The Dry Contact input are wires Green and White. Connect these wires to the dry contact (Relay) of the Injection Molding Machine.



### **The Auxiliary Cable Description.**

1- DB9 Male Connect to Midexx Aux Port.

2- Connect to Alarm Light.

3- Connect to 0-10V Tracking Signal for Extrusion Follow.

4- Connect to Dry Contact (Relay)

5- No Flow Alarm (12V) This is a 12V signal which presents 12 V when a No Flow Alarm is Present.

## Connecting Midexx to an Extrusion Machine.

To Connect a Midexx to an Extrusion Machine an extrusion signal is required.

Extrusion Machines provide this signal in one of the following formats.

- 12V to 24VAC/DC Signal
- 120-240VAC signal
- Relay contact closure (Dry Contact).

The Midexx has been designed to accept this signal as a voltage form 24-240VAC/DC from the “SIGNAL INPUT” or as a contact closure (Dry Contact) from the AUX Port INPUT with and Auxiliary Port Adaptor Cable.

## Connection with a Live signal from the Signal Port. (24-240 V AC/DC)

On the Midexx the 24-240 VAC Signal is available on the rear panel of the Midexx and the connection is a standard IEC Receptacle.

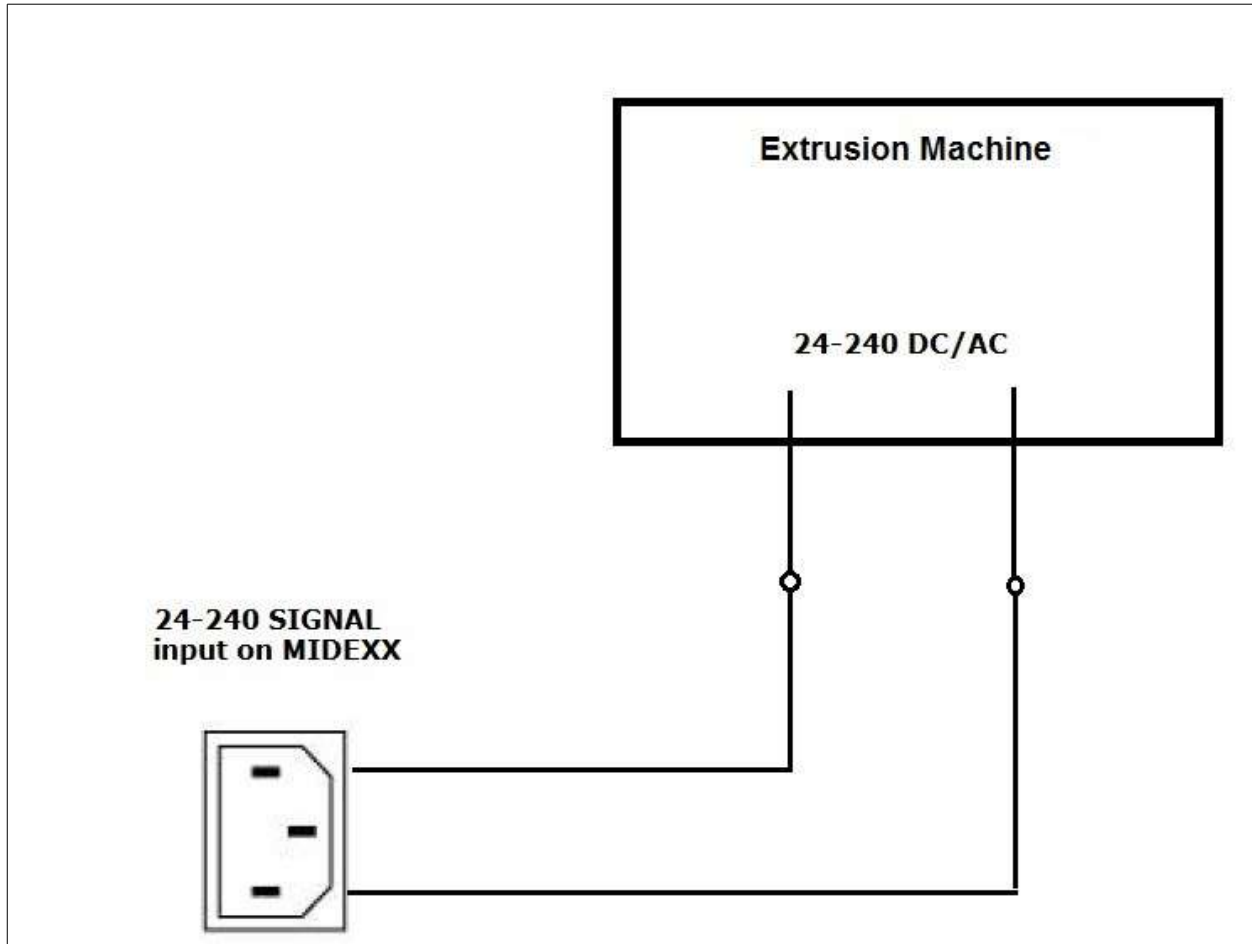


### Signal

Signal cable input for extrusion applications this is a continuous power supply from the extruder that is on when the extruder is running and off when the extruder is stopped.

(24-240 VAC/DC)

An IEC Cable is provided with the Midexx and this can be cut and a standard connector pair added to the Extrusion Machine. An Alternative is to hard-wire the cable to the Extrusion Machine and mark the IEC end of the cable with a “MIDEXX SIGNAL” label.

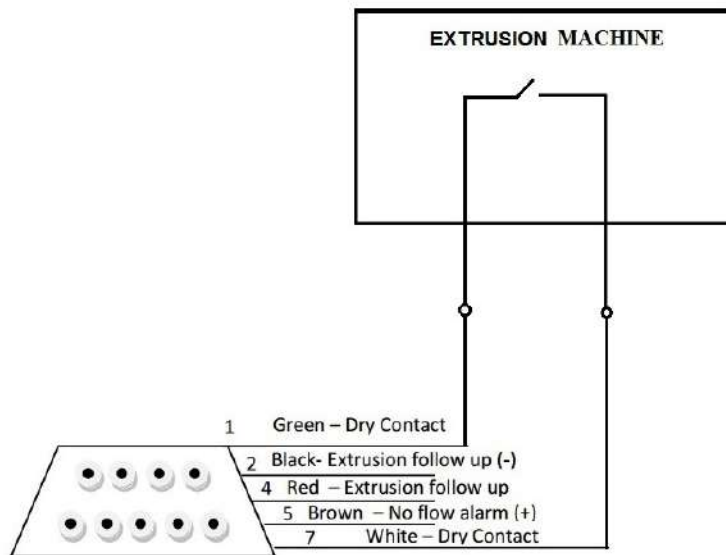


### Connection with a Relay Contact Closure (Dry Contact)

On the Midexx the Dry Contact input is available from the Auxiliary Port Input. To use this connection you will need to connect the Auxiliary Port Cable to the DB -9 Connector on the Back of the Midexx. Make sure to tighten the connector screws top and bottom of connector.

The Dry Contact input are wires Green and White. Connect these wires to the dry contact (Relay) of the extrusion Machine.





## Extrusion Tracking Mode (Option)

Tracking Mode allows the unit, in extrusion mode, to follow the extrusion signal and increase or decrease speed in relation to the extruder speed. The input signal is selected when the TRACK option is activated by pressing the numeric buttons “1” and “2” simultaneously.

The RPM on the screen is assumed to be the required speed. The controller is designed to accept a tracking signal of 0-10 VDC. The tracking cable provided will attach to the option port (DB9) on the MIDEXX, this cable has been tagged to show the polarity of the connection to extrusion. (Red Positive Black is Ground)

## Wi-Fi Option.

If the Midexx is equipped with a Wi-Fi Card the Tracking and Dry contact are available from the Wi-Fi output. Install the Wi-Fi Input Cable to the Wi-Fi card and connect as above using the following wires.

