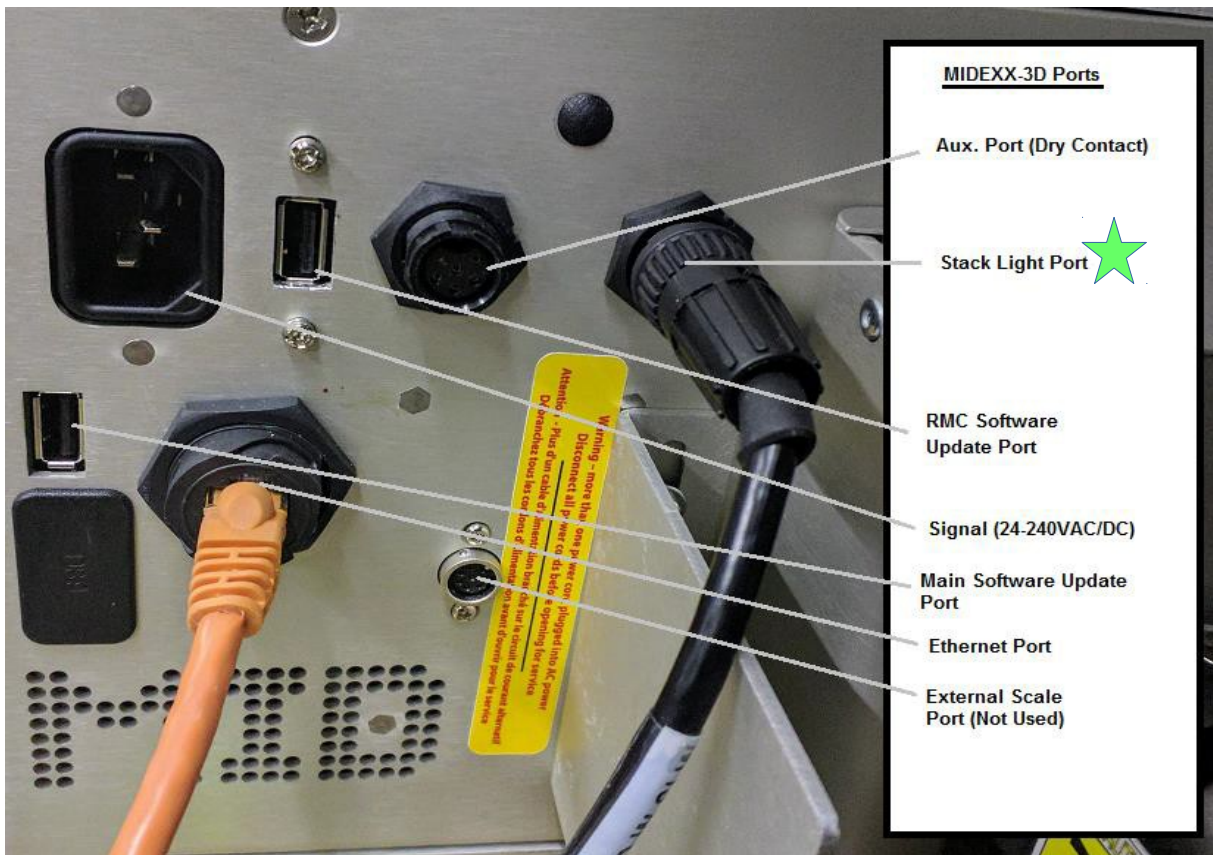


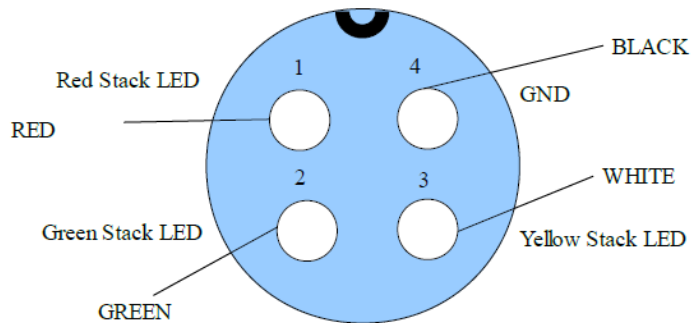
Technical Brief

Connecting a Midexx-3D to a PLC

To connect a Midexx-3D to a PLC for Status information we will be utilizing the 4 pin Stack Light PORT. Port can be identified in the picture below.



The Pin out of the Stack Light Port



NO FLOW ALARM

Red Light ON - Green Light Off “*No Flow Alarm*” message on screen.

Indication: The No Flow Alarm indicates that the Pump is unable to deliver the programmed dosage. The alarm will become active after failing to deliver multiple consecutive shots.

Low Level Alarm

Flashing Yellow Light - Green Light ON

Indication: The Low Level Alarm indicates that the weight of the colorant has reached the low level value set on the second page of MIDEXX Screen. A typical value for the low level alarm is around 1Kg - 2 Kg.

No Fill Alarm

Solid Yellow Light - Green Light ON

Indication: The NO Fill Alarm indicates that the MIDEXX Transfer Pump is attempting to refill the colorant reservoir with no success. This alarm will become active one minute after the first attempt to refill

START MODE

Green Light ON

Indication: The solid green light indicates that the MIDEXX dosing pump is in START MODE. In the case where a NO FLOW Alarm is Present (see NO FLOW ALARM above), the green light will be off to indicate that the system needs immediate attention.

STOP MODE

All lights will be off.

When all the lights are off, this indicates that the MIDEXX dosing pump is in STOP MODE. In the case where the MIDEXX dosing pump is in start mode and all the lights are off, ensure that the Stack Light cable is correctly connected.

Connection

Cut the End of a stack light extender Cable to connect to PLC.

All outputs are 12V DC Relative to pin 4 which is Ground

- 1- RED OUTPUT (12V)
- 2- GREEN OUTPUT (12V)
- 3 YELLOW OUTPUT (12V)
- 4 GND (0V)

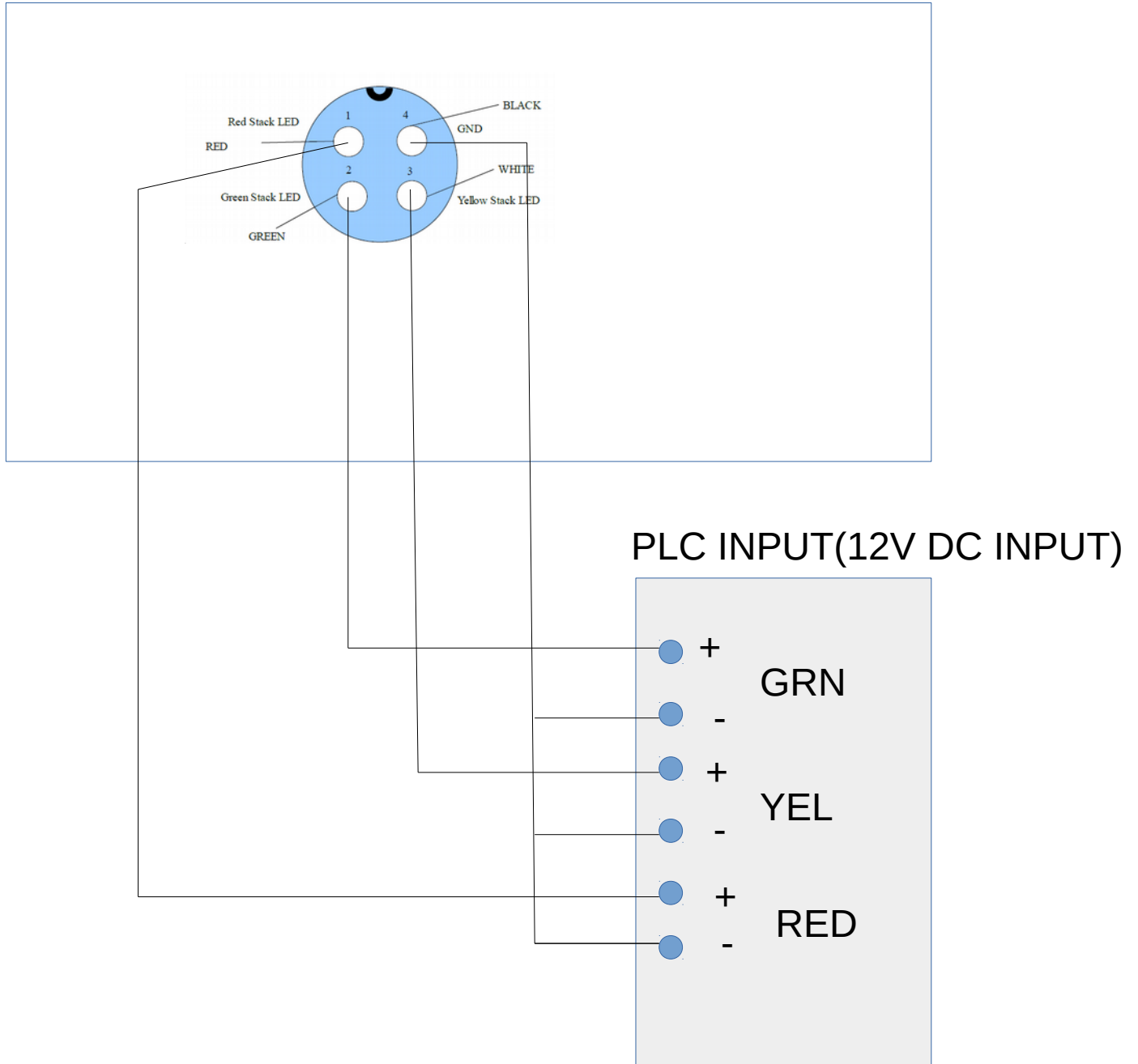
0=gnd 1=12VDC

LOGIC TABLE

Green	Yellow	Red	
0	0	0	Stop Mode (Pump Off)
0	0	1	No Flow Alarm (Stop Machine)
0	1	0	(Not a legal State)X
0	1	1	(Not a legal State)X
1	0	0	Start Mode (Good)
1	0	1	(Not a legal State)X
1	1	0	No Fill Alarm (Warning)
1	1	1	(Not a legal State)X

Connection Diagram

Midexx -3D Stack Light Output (12VDC)



Midexx-3D Stack Light Output with Voltage Level Converter Adapter (24VDC)



AC to DC Adapter (24V DC)
EU adapter shown.
Other AC plugs styles are available.

Output for PLC set to 24V DC
Use cable 4 pin male to wire

Output for Midexx 12V Stack light
Connect Stack Light (optional)

Input from Midexx Stack Light Port
Use Cable 4 pin Male to 4 pin
Female

Midexx Cables



Midexx 4-pin Male to Female



Midexx 4-pin Male to Wire



Green= Green LED (+ / POS)
Black= GND (- / NEG)
Red= RED LED (+ / POS)
White= Yellow LED (+ / POS)

