

<b>PLC</b> Automation Direct BRX Do-More - BX-DM1E-18ER3-D IP - 192.168.0.1			<b>HMI Screen</b> Automation Direct C-More EA9 Series - EA9-T10WCL IP - 192.168.0.2		
<b>Digital</b>	<b>In</b>		<b>Digital</b>	<b>Out</b>	
X 0	Encoder - OUT A - Black Wire		Y 0	HMI Spool 1	
X 1	Encoder - OUT B - White Wire		Y 1	HMI Spool 2	
X 2	Encoder - Out Z - Orange Wire		Y 2	HMI Spool 3	
X 3	Button 1 - RED		Y 3	HMI Spool 4	
X 4	Button 2 - GREEN		Y 4	HMI Spool 5	
X 5	Button 3 - YELLOW		Y 5	HMI Spool 6	
X 6	Photoelectric Sensor 1		Y 6	RED Button Light	
X 7	Photoelectric Sensor 2		Y 7	GREEN Button Light	
X 8	Photoelectric Sensor 3		Y 8	YELLOW Button Light	
X 9	Photoelectric Sensor 4		Y 9		
X 10	Photoelectric Sensor 5		Y 10		
X 11	HMI Button 1 - StopGo		Y 11		
X 12	HMI Button 2 - Pause		Y 12		
X 13	HMI Button 3 - Reset		Y 13		
X 14			Y 14		
X 15	E-STOP		Y 15		
<b>Analog</b>	<b>In</b>		<b>Analog</b>	<b>Out</b>	
WX 0	HMI Spool Speed Control		WY 0	VFD 0-10V Speed Control	
WX 1			WY 1		
WX 2			WY 2		
WX 3			WY 3		
WX 4			WY 4		
WX 5			WY 5		
WX 6			WY 6		
WX 7			WY 7		
<b>Incremental Encoder - Series TRD-N/NH - 4.75-30V DC</b> Encoder - 0V - Blue Encoder - +V - Brown Encoder - OUT A - Black Encoder - OUT B - White Encoder - OUT Z - Orange Encoder - Ground - Shield <i>PLC Common needs to be tied High or Low for Logic.</i>			<b>Photoelectric Sensor</b> DM - M12 Cylindrical Photoelectric Sensor		
<b>VFD</b> SEW EURODRIVE - Movitrac LTE-B/LTP-B					