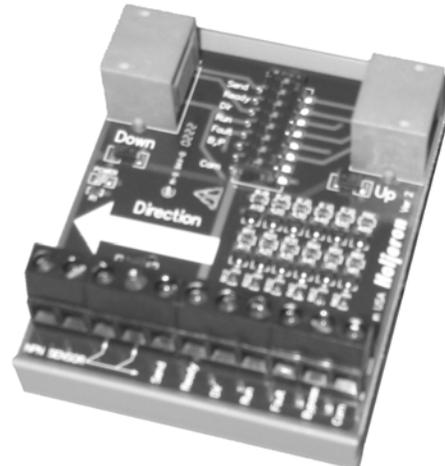


Description

ZoneLink™ is Holjeron's method for linking adjacent zones in a material handling system. This is accomplished using two electrical lines between each Powered Roller Controller: one to signal the neighboring upstream zone it is READY to receive a unit and one to let the downstream zone know it is SEND-ING a unit.

The ZoneLink™ interface card allows for interfacing sensors and other systems to a ZoneLink™ accumulation system. This includes infeed sensors, outfeed sensors, and PLC inputs and outputs.



Warranty/Remedy

Seller warrants its products to be free from defects in design, material and workmanship under normal use and service. Seller will repair or replace without charge any such products it finds to be so defective on its return to Seller within 18 months after date of shipment by Seller. **The foregoing is in lieu of all other expressed or implied warranties (except title), including those of merchantability and fitness for a particular purpose.** The foregoing is also purchaser's sole remedy and is in lieu of all other guarantees, obligations, or liabilities or any consequences incidental, or punitive damages attributable to negligence or strict liability, all by way of example.

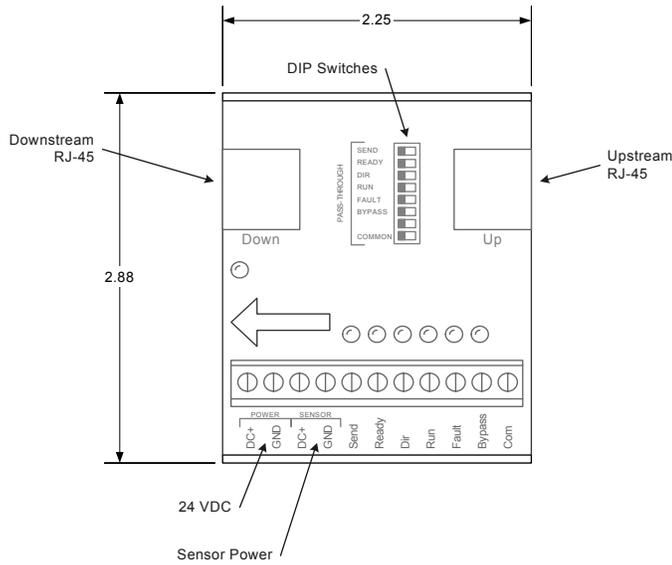
While Holjeron provides application assistance, personally and through our literature, it is up to the customer to determine the suitability of the product in the application.

All information contained herein, including illustrations, specifications and dimensions, is believed to be reliable as of the date of publication, but is subject to change without notice.

Specifications

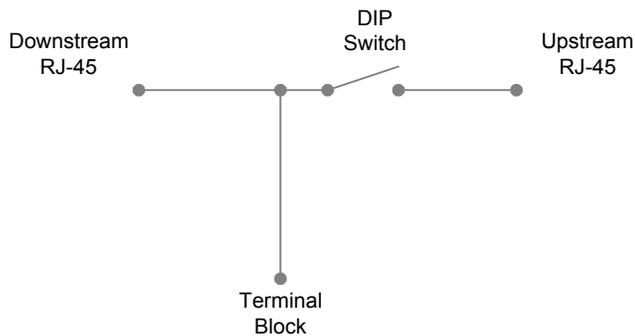
Part Numbers	ZoneLink™ Interface Card		PRC-902100	
Electrical Power	Termination	4 pin Micro connector, Male		
	Voltage Range	24 VDC		
	Current Consumption	80 mA plus Powered Roller		
Sensor Input	Type	NPN Sensor		
	Number	One (1)		
	Termination	Screw terminal		
	Voltage Range	24 VDC		
	Maximum Current	20 mA		
ZoneLink™ Interface	Type	NPN (Sink to ground)		
	Number	Six (6)		
	Termination	Screw Terminal		
	Voltage Range	24 VDC		
	Maximum Current	2 amps		
Environmental	Temperature	Storage	-30° to 70° C (-22° to 158° F)	
		Operating	0° to 60° C (32° to 140° F)	
	Humidity	5-95% RH, non-condensing		
	Vibration	2G at 10 to 500 Hz		
	Shock	10G		
Physical	Dimensions	2.88" H x 2.25" W x 1.13" D		
	Weight	12 oz		
	Mounting	Snap track		
	Indication	Power	Green	
		I/O (7)	Green	

Dimensions



Wiring

Typical Circuit for All 8 ZoneLink Pins



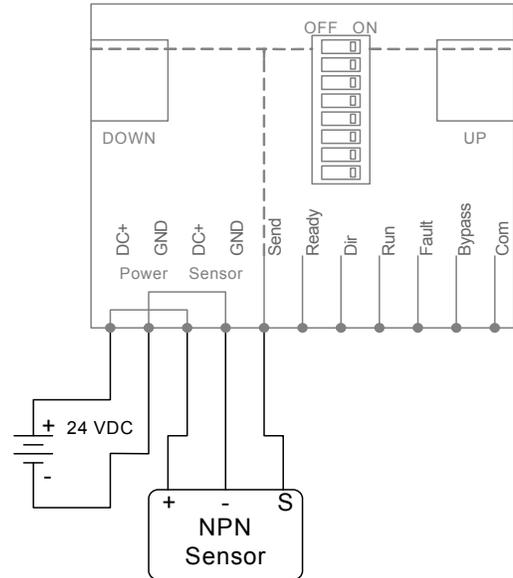
The ZoneLink™ interface card has a terminal block for each of the control signals in a ZoneLink™ system (see table below). All terminals are connected to the DOWN ZoneLink™ port, and can be either connected or disconnected from the UP ZoneLink™ port through DIP switches on the card. All signals also have an LED for indicating the state of the signal.

Configuration Options

Infeed Sensor

A common function is to use a single sensor to feed units into a ZoneLink™ system. The drawing below shows the configuration to implement this function. When a unit blocks the infeed sensor it will let the downstream zone know a unit is ready to be transferred. The SEND LED should be lit, indicating the sensor is activated. If the zone is empty, the powered roller in the zone will start running to accept the unit.

The Send DIP switch can be on or off in this application.

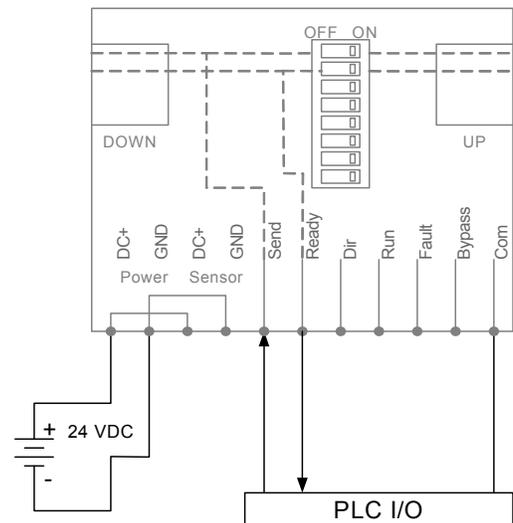


Infeed Interface

An infeed can also be implemented using a PLC. One method is to emulate the sensor interface above using a sinking output on a PLC.

For more control and feedback use both the Ready and Send line. First, the PLC pulls the Send to ground to request to the downstream zone it has a unit to be transferred. The downstream zone controller, through the interface card, will pull the Ready line to ground to let the PLC know it's able to receive the unit.

The Send and Ready DIP switches can be in either position.

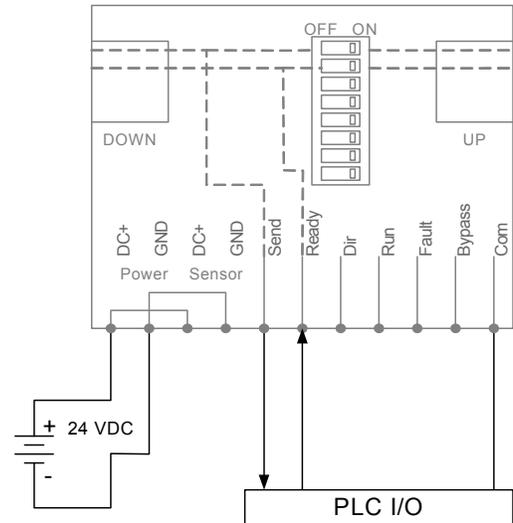


Outfeed Release

The last ZoneLink™ controller in a system will automatically hold a unit until a release function is executed. If a unit is always to be released, the Ready line on the interface card can be wired directly to Common.

To control the release, a PLC can read the Send line from an Upstream controller into an input and, if it's okay to transport the unit, then the Ready line can be taken to common by an output until the Send line is no longer active.

The Send and Ready DIP Switches must be set in the ON position.



Manual Bypass

A ZoneLink™ system can be put in Manual Bypass mode by connecting the Bypass line to Common. When in Bypass mode, all ZoneLink™ controllers in a system can be simultaneously controlled with the Run and Dir signals. For example, to purge a lane, the Bypass line, followed by the Run line, would be connected to Common through switches or PLC outputs. When the Run line is active then all zones on that system will run.

The Bypass, Run and Common DIP switches can either be ON or OFF, depending on the desired control.

