Instruction Sheet
Document Number 1620732-01

Trigger Interface Module

Description

See Figure 1.

The Trigger Interface Module is used in iTRAX® applications when no trigger pulse signal is available. It will generate a +24 Vdc trigger pulse from the current flowing through the spray gun. The trigger pulse is used for spray detect monitoring.

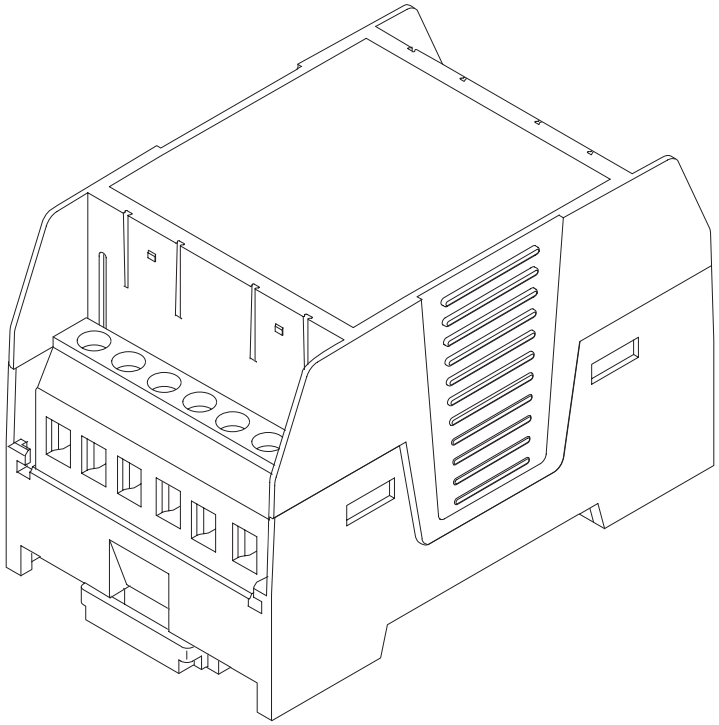

Figure 1 Trigger Interface Module

Specifications

Operating Voltage	24 Vdc ± 4 V
Frequency	0
Maximum Input Current	25mA
Maximum Gun Current	3.0 Adc
Minimum Gun Holding Current	0.5 Adc
Minimum Output Load Resistance	1.5 kΩ
Operating Temperature	45-120°F (7-50°C)
Humidity	0-95% non-condensing
Dust and/or Water Infiltration	Dust and moisture free environment

Trigger Interface Module Requirements

The following customer-supplied hardware is required to install the trigger interface module:

- Power Supply: 24 Vdc, 25mA
- Enclosure: IP54 or higher metal enclosure
- Cables: 22 AWG for input voltage, spray gun current, and trigger signal output.

Installation

WARNING: Allow only qualified personal to perform the following tasks. Follow the safety instructions in this document and all other related documentation.

Trigger Interface Module Mounting

Mount the trigger interface module on a DIN rail. The mounting area should be free of vibration, excessive dust, and moisture. Ambient temperatures must not exceed 45-104°F (7-50°C). The trigger interface module's overall dimensions are shown in Figure 2.

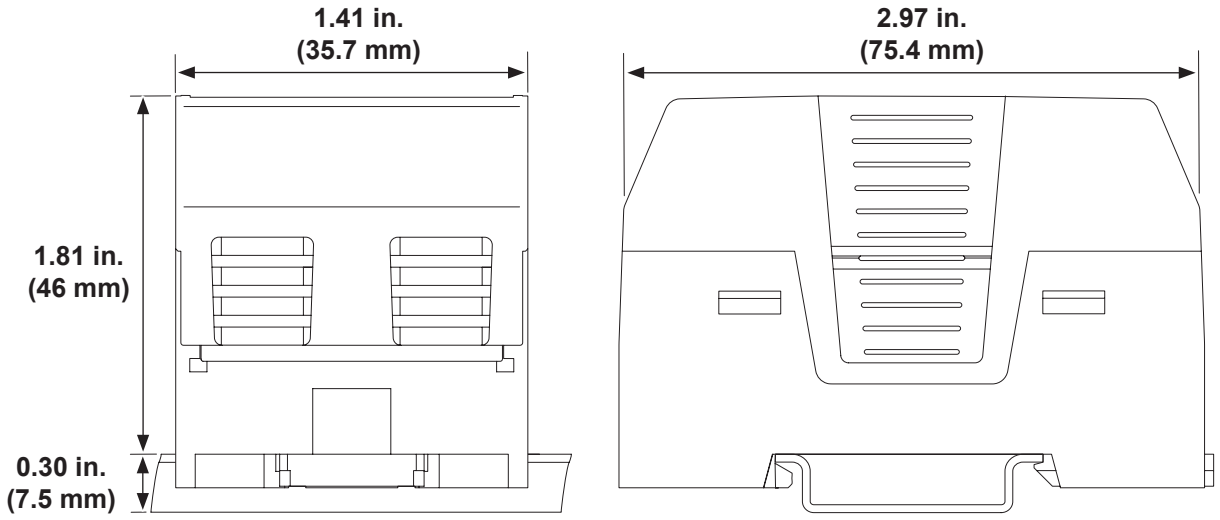

Figure 2 Trigger Interface Module Dimensions

System Wiring

See Figure 3 and refer to Table 1 and Table 2. Refer to *Trigger Interface Module Requirements* on Page 2 for cables.

Table 1 J1 Pinouts

Function	Label	Pin #	Signal Name	Signal Type
Power Power Input	+24	1	+24 Vdc ±4 V @ 25 mA	Power Input
	⏚	2	24 Vdc COM	Power Common
	⏚	3	Chassis Ground	Chassis Ground
NC No Connect		4		
Out Trigger Pulse Signal	+	5	Signal Output	Sourcing Output to Spray Monitor
	-	6	Signal Return	Sourcing Return from Spray Monitor

Table 2 J2 Pinouts

Function	Label	Pin #	Signal Name	Signal Type
Gun Spray Gun Current	+	1	Signal Input	Input from Spray Gun
	-	2	Signal Return	Return to Spray Gun
NC No Connect		3		
		4		
		5		
		6		

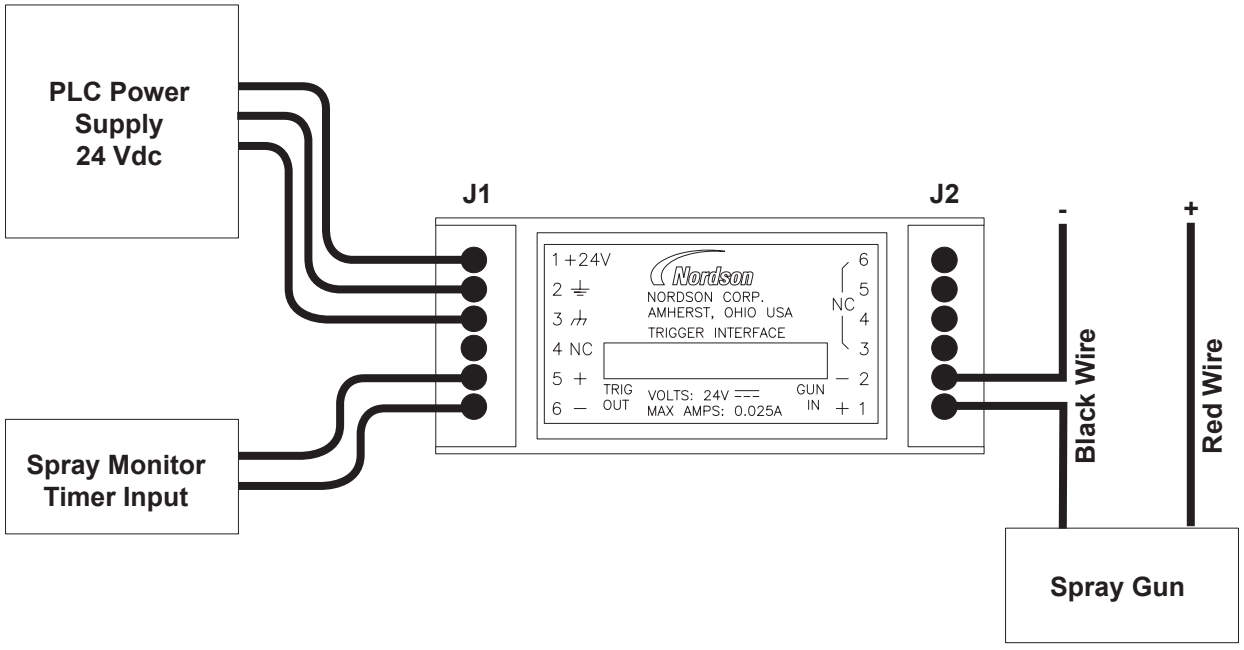

Figure 3 System Wiring

Troubleshooting

Problem	Possible Cause	Corrective Action
System not operating properly.	Input wiring.	Measure the Vdc at the input of the trigger interface module across pins 1 and 2, if it is not 24 Vdc check the connections or replace the wiring.
	Trigger signal.	With the system in idle, measure the Vdc at the Trigger + output, pin 6 of J1 and Com Pin 2 of J1. If it's not 24 Vdc, replace the module.
	Gun Connection.	Check the polarity of the gun input wiring. Replace wiring if neccessary.

Parts

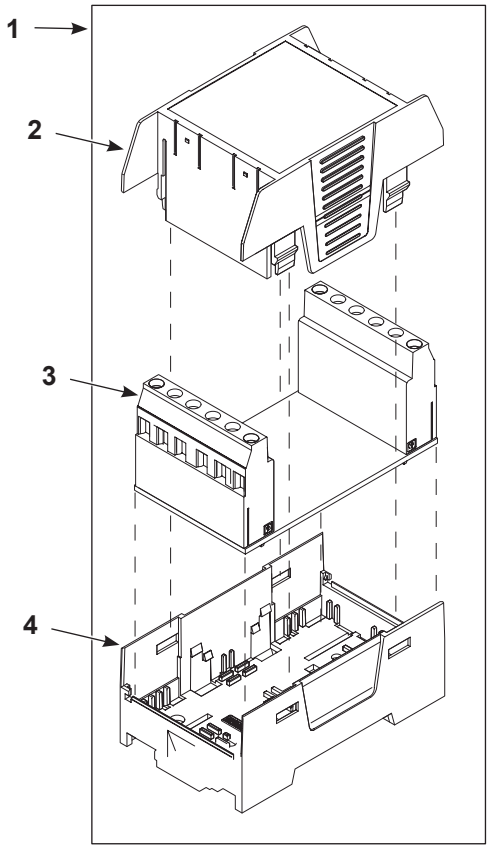

Figure 4 Trigger Interface Module Parts

Item	Part	Description	Quantity
1	1620620	MODULE, trigger interface	1
2	- - - - - -	• ENCLOSURE, top	1
3	- - - - - -	• PCA, trigger interface	1
4	- - - - - -	• ENCLOSURE, bottom	1

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Contact Us

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