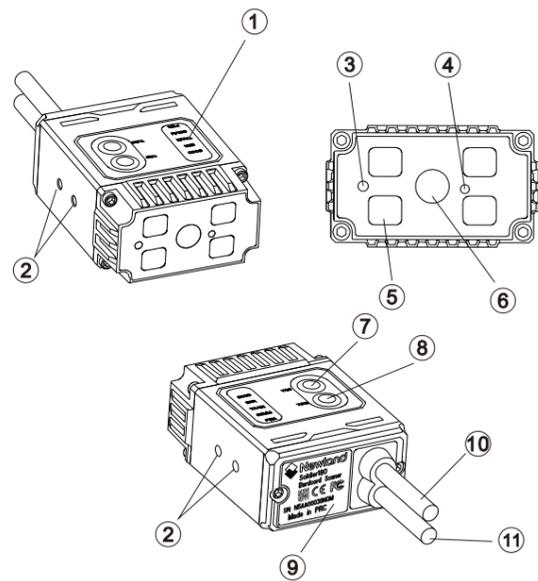


Product Appearance



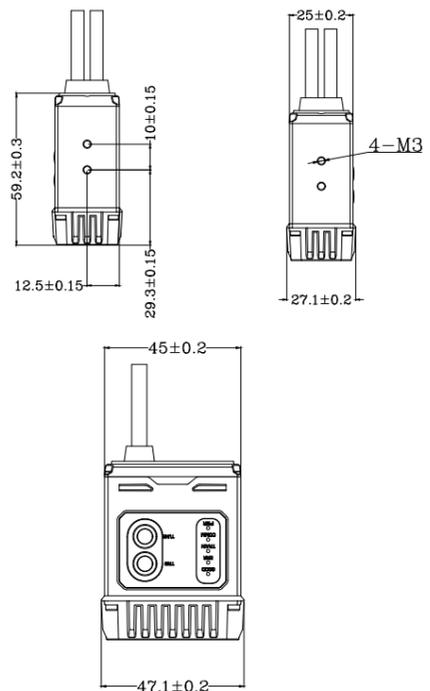
- ① Function indicator ⑤ Illuminating LED ⑨ Label
- ② Mounting holes*4 ⑥ Lens ⑩ Data cable
- ③ Successful decoding LED ⑦ Trigger button ⑪ Ethernet cable
- ④ Aimer ⑧ Auto-learning button

1

Dimension

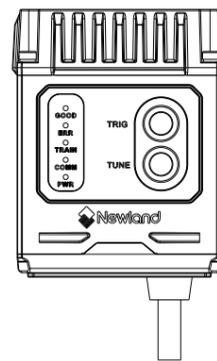
Take standard device as an example:

Units:mm



2

Button and Indicator



Button	Functions	
TRIG	Trigger	Short press once to start reading the barcode
	Barcode Programming	1. Long press for 9s until the buzzer beeps twice, then release to enter barcode programming mode. 2. Short press once again to exit. 3. Automatically exit after 60 seconds of inactivity. 4. Exits upon successfully reading other barcodes.
TUNE	Focus+ Auto-learning	1. Long press for 3 seconds until the buzzer beeps, then release to enter Focus & Auto-learning mode. 2. Short press once again to exit Focus & Auto-learning mode.
TRIG+TUNE	Restore to factory settings	Long press for 20s to enter restore factory settings.

3

Button and Indicator

Type	Function	Description
GOOD	Good read indicator	Blinking Green: Decoding successful
ERR	Device error indicator	Blinking Red : Decoding failed Steady Red: An error has occurred on the device Possible causes include: 1. Communication error 2. CMOS abnormality 3. Firmware update failed 4. Abnormal communication with host during networking 5. Script execution error
		Blinking Orange : Auto-learning in progress Steady Orange : Auto-learning success Orange LED Off: Auto-learning failure
TRAIN	Auto-learning indicator	Blinking Blue: Serial/Network data transmission
PWR	Power indicator	Steady Green : The device is powered on Green LED Off: The device is not powered on

4

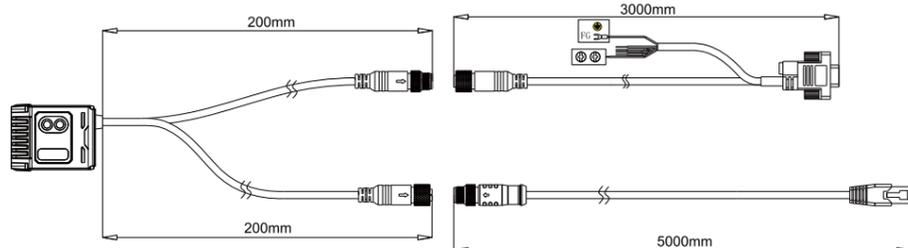


NLS-Soldier180 Series Fixed Mount Barcode Scanner

Quick Start

V3.0

Cable Pinout and IO Description

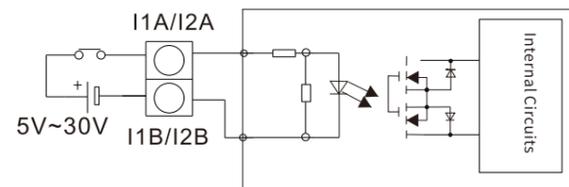


Pin	Definition	Description
1	RS232-TX	Serial port sender
3	RS232-RX	Serial port receiver
4	GND	Power ground (black)
5	GND	Signal ground
6	I1A	Trigger signal input I1A(Brown)
7	I1B	Trigger signal input I1B(Pink)
8	I2A	Trigger signal input I2A(Green)
9	I2B	Trigger signal input I2A(Grey)
10	O1+	Signal output for good read O1+(Orange)
11	O1-	Signal output for good read O1-(White)
12	O2+	Signal output for not good read O2+(Yellow)
13	O2-	Signal output for not good read O2-(Purple)
17	VIN	VIN (Red)
Shell	FG	Frame ground (yellow-green)

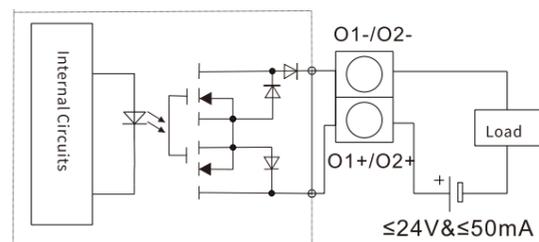
5

IO

Trigger input circuit



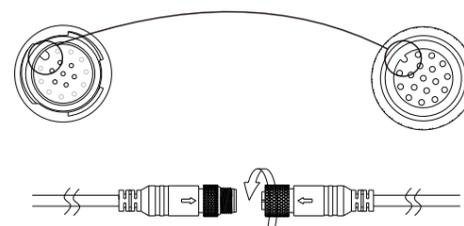
Signal output circuit



6

Connect the Cables & Installation

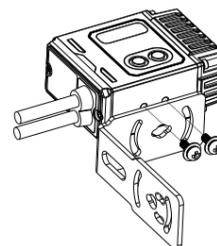
Connect the Cables



- When connecting the cable, align the protruding part of the connector with the slot in the control port and insert it.
- Turn the connector nut on the cable clockwise and tighten it.

Note: If the connector is rotated without proper alignment during insertion, it may bend the pins and cause communication failure.

Installation

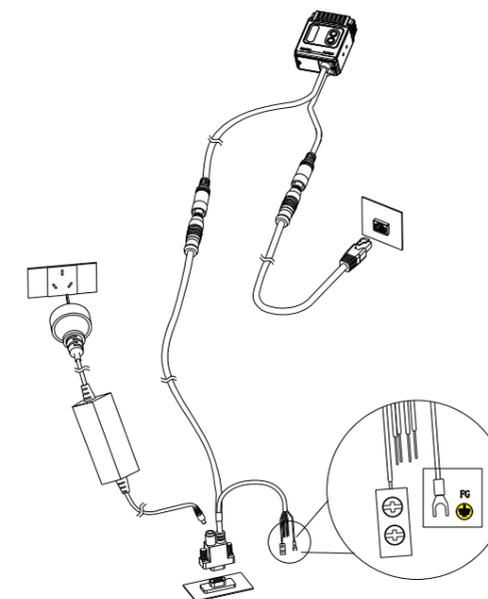


Mounting holes are designed on two sides of the device, offering flexible installation options.

7

Device Wiring Description

Connect to the host device via RS232/Ethernet



- Note:
- The FG wire should be grounded.
 - Always turn off the power before connecting or disconnecting the control cable.
 - The power wire (red) must not be exposed, as it may cause a short circuit.

8

Troubleshooting

If the scanner is not functioning properly, follow these troubleshooting steps:

- Check the Data Cable Connection:** Ensure the data cable is securely connected to the scanner and the original cable is being used.
- Inspect Barcode Label Quality:** The scanner may fail to read barcodes that are severely wrinkled or smudged. Ensure the barcode labels are intact and undamaged.
- Verify Barcode Type Settings:** Check if the barcode type you are scanning is enabled. If not, enable the corresponding barcode type first.

For more information about the scanner, please visit the Newland website at <https://www.newlandaidc.com>.



PN: 1060091448

NLS-Soldier180 Quick Start



NLS-Soldier180 Series Fixed Mount Barcode Scanner

Quick Start



1 Scanner Information



@QRYSYS

【Query All Information】



@NETDEF

【Restore the Factory Defaults of Ethernet】



@SCNMOD17

【Standard Mode】



@SCNTFC0

【Level Trigger Mode】

2 Default Settings



@FACDEF

【Restore All Factory Defaults】

3 Scan Mode



@SCNMOD18

【Continuous Mode】



@SCNMOD19

【Burst Mode】



@SCNTFC1

【Pulse Mode】

5 Input IO Level Control



@EIOIP11

【Set to Active High for Input 1】



@EIOIP21

【Set to Active High for Input 2】



@AMLENA0

【Disable】



@AMLENA2

【Always On】



@TSUENA1;TSUSET0D

【Set to CR(0X0D)】



@EIOIP10

【Set to Active Low for Input 1】



@EIOIP20

【Set to Active Low for Input 2】



@AMLENA1

【Enable】



@TSUEAN0

【Disable】



@TSUENA1;TSUSET0D0A

【Set to CRLF(0X0D,0X0A)】

7 Terminator Suffix