

SLX-290 Series Reference Manual



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Precautions

To reduce the risk of injury or equipment damage, observe the following precautions when you install the Cognex product:

- The device requires a UL or NTRL listed power supply with a 24 V DC output that meets the following rating requirements:
 - 24 V DC (+/- 10%) output connection using a UL or NTRL listed LPS or NEC Class 2 power supply power supply

Any other voltage creates a risk of fire or shock and can damage the components. Applicable national and local wiring standards and rules must be followed.

- This product is intended for industrial use in automated manufacturing or similar applications.
- The safety of any system incorporating this product is the responsibility of the assembler of the system.
- Do not install Cognex products where they are exposed to environmental hazards such as excessive heat, dust, moisture, humidity, impact, vibration, corrosive substances, flammable substances, or static electricity.
- Route cables and wires away from high-current wiring or high-voltage power sources to reduce the risk of damage or malfunction from the following causes: over-voltage, line noise, electrostatic discharge (ESD), power surges, or other irregularities in the power supply.
- Do not expose the image sensor to laser light. Image sensors can be damaged by direct, or reflected, laser light. If your application requires laser light that might strike the image sensor, use a lens filter at the corresponding laser wavelength. For suggestions, contact your local integrator or application engineer.
- This product does not contain user-serviceable parts. Do not make electrical or mechanical modifications to product components. Unauthorized modifications can void your warranty.
- Changes or modifications not expressly approved by the party responsible for regulatory compliance could void the user's authority to operate the equipment.
- All cables connected to device need to be certified for CYJV or PVVA.
- Include service loops with cable connections.
- Ensure that cable strain relief is applied within strain relief zone. The strain relief zone is between two inches to six inches from the connector.
- Ensure that the cable bend radius begins at least six inches from the connector. Cable shielding can be degraded or cables can be damaged or wear out faster if a service loop or bend radius is tighter than 10X the cable diameter.
- This device should be used in accordance with the instructions in this manual.
- All specifications are for reference purposes only and can change without notice.

Symbols

The following symbols indicate safety precautions and supplemental information:

 **WARNING:** This symbol indicates a hazard that could cause death, serious personal injury or electrical shock.

 **CAUTION:** This symbol indicates a hazard that could result in property damage.

 **Note:** This symbol indicates additional information about a subject.

 **Tip:** This symbol indicates suggestions and shortcuts that might not otherwise be apparent.

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Getting Started

This section provides general information about the SLX-290 series device and the accessories and systems.

About the SLX 290 Series

The SLX-290 series delivers high performance with a simplified hardware and software setup.



SLX-290 Systems

	Omnidirectional 1D Codes	1D Max with Hotbars	2DMax - Hard to Read 2D Codes	PowerGrid - Damaged 2D Codes	High Speed Decoding	Edge Learning Classifier	Vision and barcode reading tools	Resolution
SLX-290-M4C	✓	✓	✓		✓	✓		1440 x 1080
SLX-290-M4H	✓	✓	✓		✓	✓	✓	1440 x 1080

Accessories

You can purchase the following components separately. For a list of options and accessories, contact your local Cognex sales representative.

Cables

Note: Cables are sold separately or as part of an accessory bundle. For more information, contact your Cognex sales representative.

Accessory	Product Number	Illustration
Ethernet Cable, X-coded M12-8 to RJ-45	CCB-84901-2001-xx (straight, xx specifies length: 2m, 5m, 10m, 15m, 30m)	
Ethernet Cable, X-coded M12-8 to RJ-45	CCB-84901-2002-xx (right-angled, xx specifies length: 2m, 5m, 10m)	
I/O Extension Cable	CKR-200-CBL-EXT	
Sealed USB Type C Cable to USB Type A, Straight, 2.5 m	DMA-STCBL-IP65-25	
Sealed USB Type C Cable to USB Type A, Straight 3.6 m	DMA-STCBL-IP65-36	
Sealed USB Type C Cable to USB Type A, Angled, 2.5 m	DMA-RTCBL-IP65-25	
Sealed USB Type C Cable to USB Type A, Angled, 3.6 m	DMA-RTCBL-IP65-36	

Mounting Brackets

Note: The backside of the device needs to be connected to a metal part that can serve as a heatsink.

Accessory	Product Number	Illustration
Universal mounting bracket	DM290-UBRK-000	
Pivot mounting bracket	DM100-PIVOTM-00	
Tilted angle pivot bracket	DMBK-DMPIVOT-00	

Miscellaneous Accessories

Accessory	Product Number
Photoeye kit	LST-PHOTOEYE-02
Diffuse Photoeye Kit	LST-PHOTOEYE-DFE
Encoder, RH-P240AJ/8-30 RC MW1-UB3-10M	LST-ENCODER-000
Buzzer with Red LED	LGM-BUZZER-RED

Cognex I/O Accessories

Note: For more information on Cognex I/O system, see the *Cognex I/O User Guide*.

Accessory	Product Number	Illustration
Emparro Power Supply 8A 7/8" - L	CPS-4A-78-L	
Emparro Input 7/8" to C14 (length: 2 m)	CCB-CPS-A3E11-200	
Two-Channel Emparro Output L-Coded (length: 1 m)	CCB-CPS-344533-100	
Power chain L-coded cable (length: 2 m, 5 m)	CCB-CIO-P4141-200	
	CCB-CIO-P4141-500	
Power Breakout Box	CIO-PB-4	
External/Light Connector cable (length: 2 m, 5 m)	CCB-CIO-40021-200	
	CCB-CIO-40021-500	
M12 Cable T-Splitter	CCB-CIO-42751-000	
Shielded Secondary Cable 4-pin (length: 2 m, 5 m)	CCB-CIO-40507-200	
	CCB-CIO-40507-500	
	CCB-CIO-40507-1000	
Master Breakout Box, PNP	CIO-MB-PNP	
Primary Cable 12-pin (length: 2 m)	CCB-CIO-53001-200	
RJ45 to RJ45, RA, IP67 (length: 2 m)	CCB-ETH-RJ45-2RA	
Ethernet chain X-coded cable (length: 0.5 m, 1 m, 2 m, 3 m)	CCB-CIO-51001-100	
	CCB-CIO-51001-200	
	CCB-CIO-51001-500	
	CCB-CIO-51001-1000	

Accessory	Product Number	Illustration
Master Breakout Board (MBB)	CIO-MB-PNP	
Power Distribution Board (PDB)	CIO-PD-4	
Hybrid Switch	CIO-HS-4	

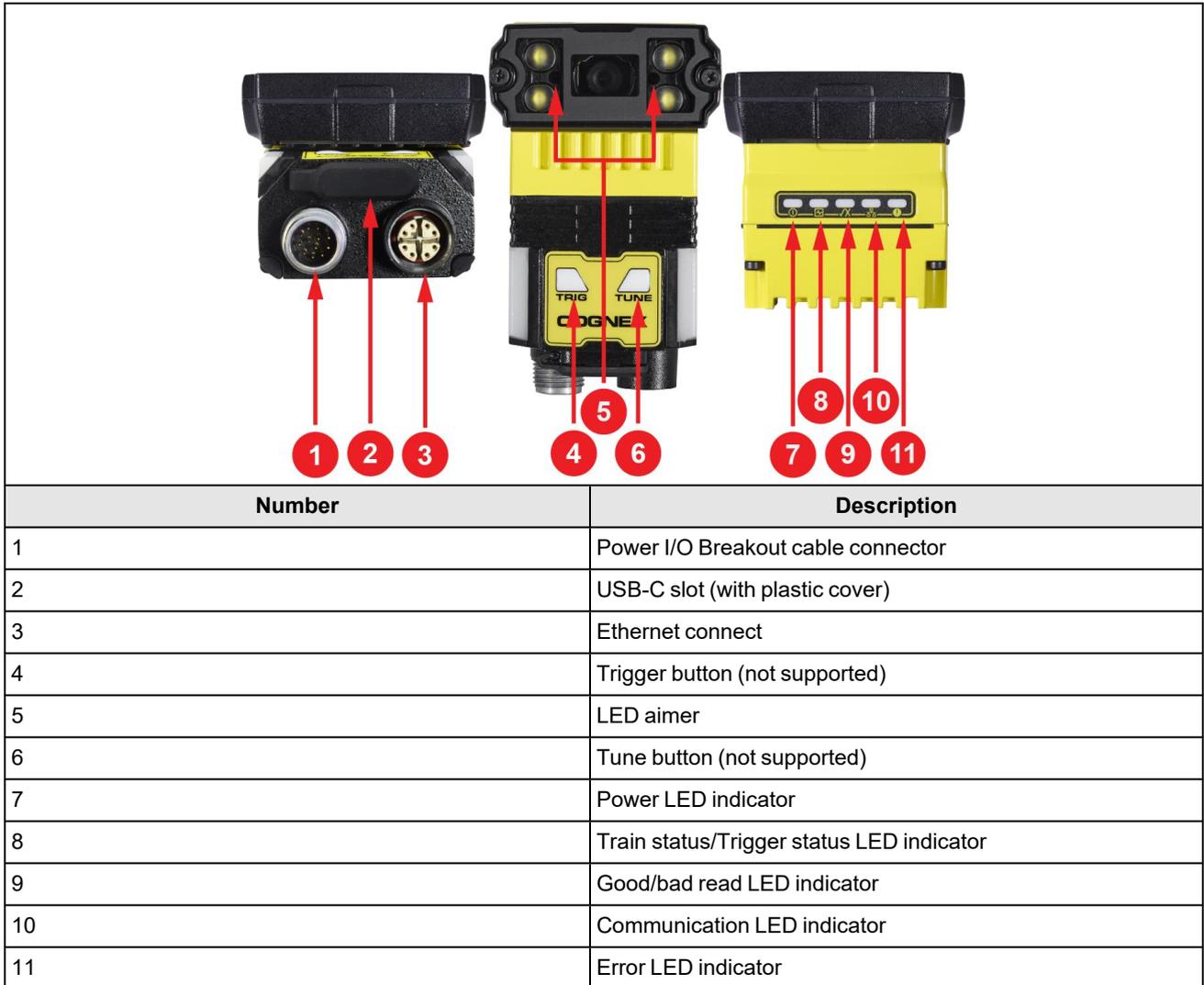
Setting Up Your SLX-290 Device

Read this section to learn how the device connects to its standard components and accessories.

CAUTION: All cable connectors are keyed to fit the connectors on the device. Do not force the connections or damage may occur.

Device Layout

The image and table below shows the elements of the device.



Indicator LEDs

The table summarizes the functions of the indicator LEDs on SLX-290 device.

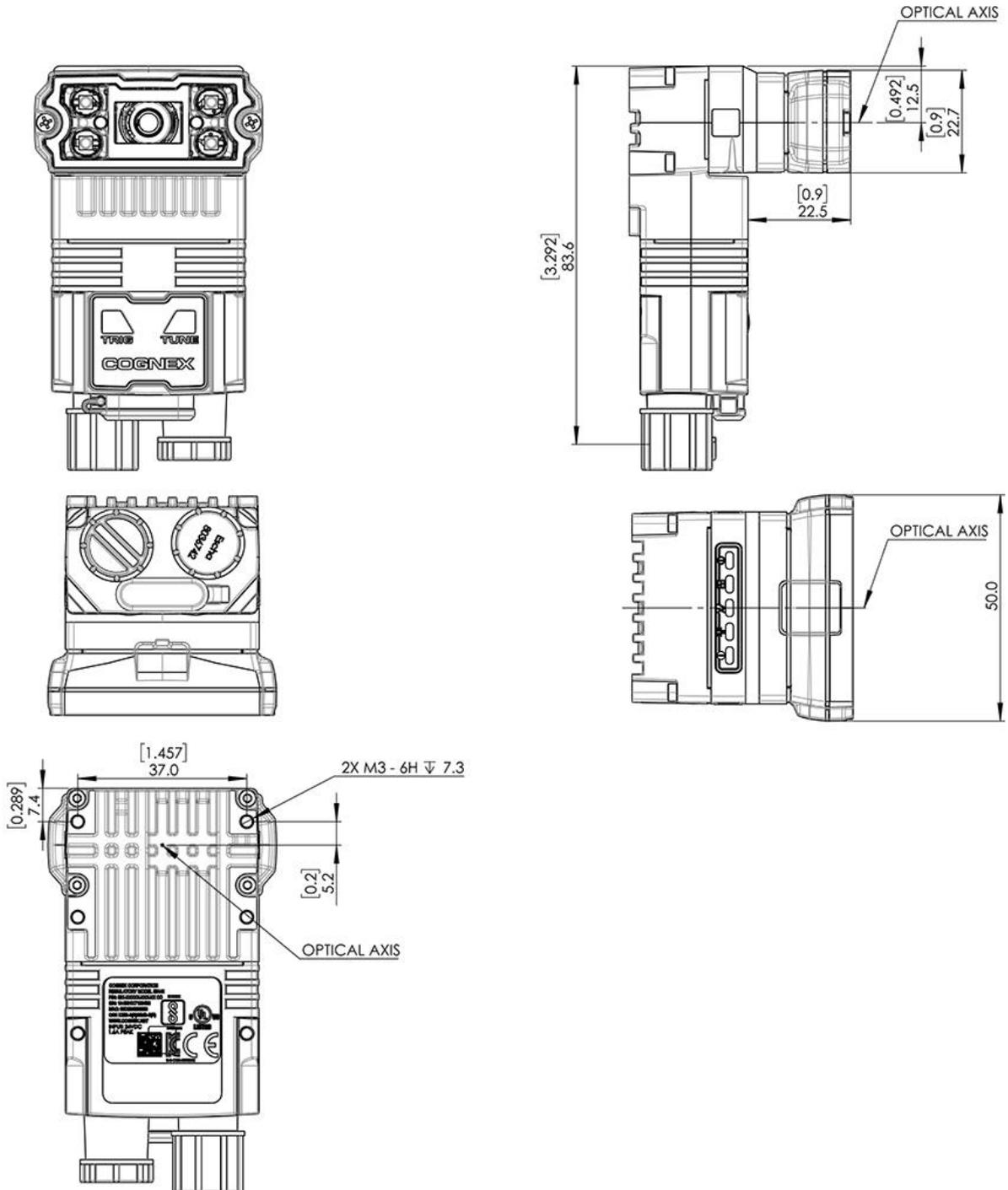
Indicator	Color/Status	Meaning
Power LED indicator	ON	The device is ON.
	OFF	The device is OFF.
Train/Trigger status LED indicator	ON	This LED is always solid GREEN. It does not reflect training state.
Good/Bad read LED indicator	GREEN	The device performs a good read.
	RED	The device performs a bad read when it does not find a decoding after a timeout.
Communication LED indicator	ON	This LED blinks according to network activity.
	OFF	This LED is OFF when there is no Ethernet connection.
Error LED indicator	ON	This LED is ON when the device detects an error.

Dimensions

The following sections list dimensions of the device.

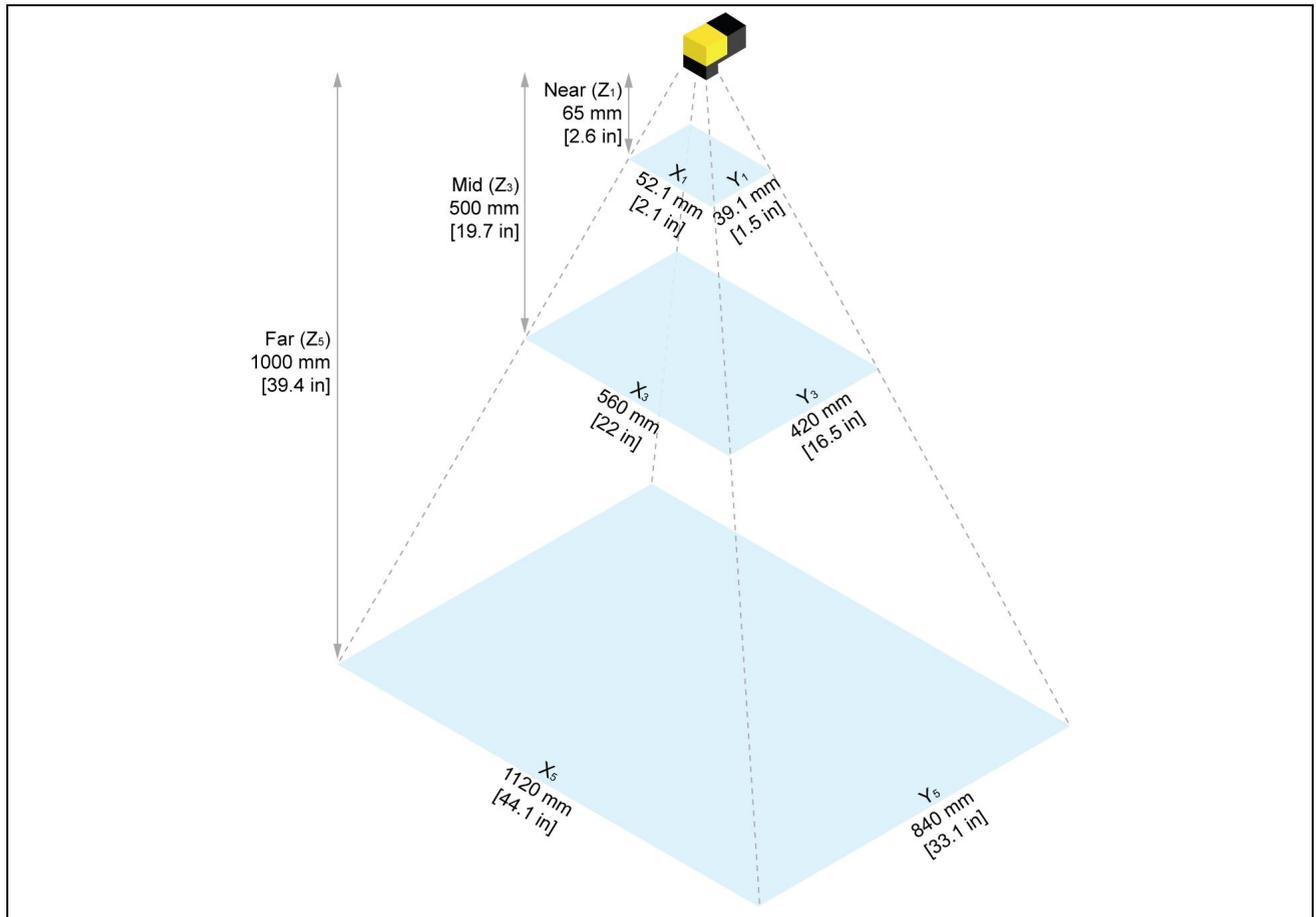
Note:

- Dimensions are in millimeters and are for reference purposes only.
- All specifications are for reference purposes only and can change without notice.



Field of View and Working Distance

The following tables show the Field of View (FoV) widths of the 4.5 mm lens at various distances.



Working Distance	Horizontal Values	Vertical Values
65 mm [2.6 in]	72.8 mm [2.9 in]	54.6 mm [2.1 in]
250 mm [9.8 in]	280 mm [11 in]	210 mm [8.3 in]
500 mm [19.7 in]	560 mm [22 in]	420 mm [16.5 in]
750 mm [29.5 in]	840 mm [33.1 in]	630 mm [24.8 in]
1000 mm [39.4 in]	1120 mm [44.1 in]	840 mm [33.1 in]

1D Field of View table with 4.5 mm Lens:

1D min. code in mil	Distances in mm
4 mil	157 mm
6 mil	233 mm
10 mil	385 mm
14 mil	537 mm
20 mil	765 mm

2D Field of View table with 4.5 mm Lens:

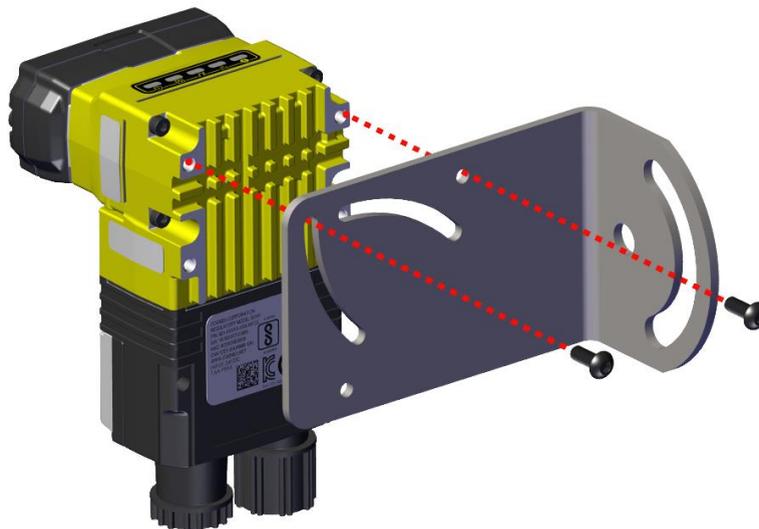
2D min. code in mil	Distances in mm
4 mil	78 mm
6 mil	114 mm
10 mil	187 mm
14 mil	260 mm
20 mil	369 mm

Mounting the Device

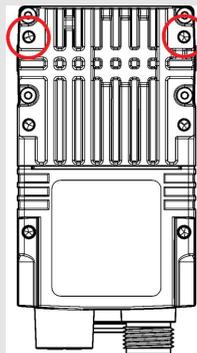
The device provides mounting holes for attachment to a mounting surface.

CAUTION: You must ground the device, either by mounting the device to a fixture that is electrically grounded or by attaching a wire from the mounting fixture on the device to frame ground or earth ground. If you use a ground wire, attach the wire to one of the four mounting points on the back plate of the device and not to the mounting points on the front of the device.

Align the holes on the mounting surface with the mounting holes on the device. Insert the M3x9 screws into the mounting holes.



Note:
Use the top two holes for mounting the device.



Connection Options

This section summarizes connection options.

For more information on how to connect your device to your network, see the *Communications and Programming Guide*.

Connecting the Ethernet Cable

CAUTION: The Ethernet cable shield must be grounded at the far end. Whatever this cable is plugged into (typically a switch or router) should have a grounded Ethernet connector. A digital voltmeter should be used to validate the grounding. If the far end device is not grounded, a ground wire should be added in compliance with local electrical codes. The unit is to be connected only to internal Ethernet networks without exiting a facility and being subjected to TNVs.

1. Connect the M12 connector of the Ethernet cable to the device ENET connector.
2. Connect the RJ-45 connector of the Ethernet cable to a switch/router or PC, as applicable.

Connecting the Power and I/O Breakout Cable

CAUTION: To reduce emissions, connect the far end of the Breakout cable shield to frame ground.

Note:



- Perform wiring or adjustments to I/O devices when the device is not receiving power.
- You can clip unused wires short or use a tie made of non-conductive material to tie them back. Keep bare wires separated from the +24 V DC wire.

1. Verify that the 24 V DC power supply is unplugged and not receiving power.
2. Attach the +24 V DC connector of the Power and I/O Breakout cable and Ground wires to the corresponding terminals on the power supply. For more information, see [Specifications on page 19](#).

CAUTION: Never connect voltages other than 24 V DC. Always observe the polarity shown.

3. Attach the M12 connector of the Power and I/O Breakout Cable to the 24 V DC connector of the device.
4. Restore power to the 24 V DC power supply and turn it on if necessary.

Using your SLX-290 device through USB

You can use the USB connector of the device in the following ways:

- Emulating Ethernet functionality

The device establishes the connection through emulated Ethernet.



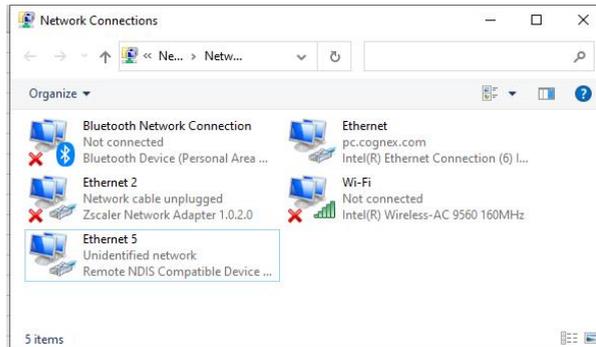
Note: Do not power the device exclusively over USB. Any load to the system might cause it to reboot.

Emulating Ethernet Functionality

You have to configure the connection between the PC and the device to use the emulated Ethernet-over-USB functionality.

Configure the PC-emulated Ethernet Driver to be in the Same LAN

1. Connect the PC to the device with an USB-C cable.
2. Open **Control Panel** and select **Network and internet**.
3. Select **Network and Sharing Center**, then select **Change adapter settings**.
4. Identify the virtual adapter. On the example image below, it is Ethernet 5.



5. Right-click on the virtual adapter and select **Properties**.
6. Assign a fixed IP to the network adapter starting with 192.168.111.



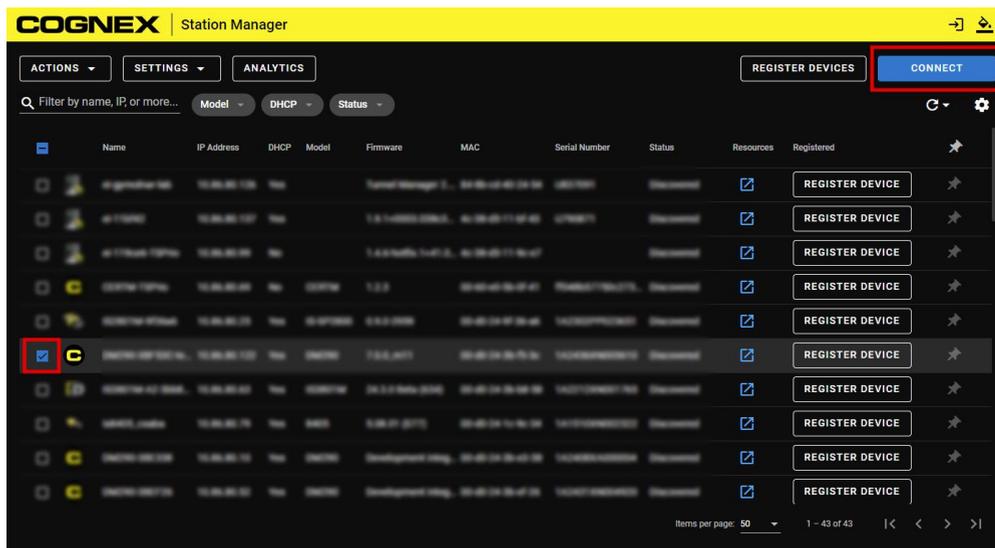
Using Your SLX-290 Device

This section provides information on the connection to the WebUI, trigger types, and protocols.

Connect to Station Manager

To connect to Station Manager:

1. Go to support.cognex.com/en/downloads/edge-intelligence and select Cognex Station Manager.
2. Download the Station Manager installer and follow the on-screen steps.
3. Find and select your device.
4. Click **Connect** and set up.



Trigger Methods

The SLX-290 devices support the following trigger modes:

- **Hardware Signal:** the device acquires images when it receives a signal on input line 0.
- **Software Command:** the device acquires images when it receives a trigger command through an industrial protocol or TCP.
- **Internal Timer:** the device automatically acquires images at a configurable interval. This enables continuous inspection or code reading without an external signal.

The Hardware Signal and Software Command trigger modes support the following trigger behaviors:

- **One Time:** the device acquires and processes one image for each trigger using the currently enabled tools. The device relies on an external trigger source.
- **Repeating:** the device acquires and processes images continuously after one trigger. The device stops image acquisition when a tool returns a result or the trigger signal becomes inactive.

Industrial Protocols

The device supports the following industrial protocols:

- EtherNet/IP™
- PROFINET

After enabling the selected industrial protocol, a reboot is required for the changes to take effect. Enable an industrial protocols on the device with the following options:

- Enable the protocols on the **Communications** substep of the DataMan WebUI.
- Send the appropriate **DMCC** command. For more information, see *Command Reference* available through the Windows **Start** menu or the WebUI **Help** menu.

Specifications

The following sections list general specifications for the device.

SLX-290 Series Device

Specification	SLX-290
Weight	169 g
Power	External LPS or NEC Class 2 power supply power supply: 24 V DC +/- 10% <div style="border: 1px solid black; padding: 2px;"> <p>Note: Do not power the device through USB in a production environment.</p> </div>
Power Consumption	Average: ≤ 7.5 W Maximum: 1.6 A
Sensor Temperature	0 – 70°C (32 – 158°F)
Operating Temperature	0 - 40°C (32 – 104°F)
Storage Temperature	-10°C – 60°C (14 – 140°F)
Humidity	< 95% non-condensing
Environmental	IP67 Altitude: 2000 m, indoor use only, pollution degree II <div style="border: 1px solid black; padding: 2px;"> <p>Note: IP67 rating applies only if all blind plugs, lens covers, and cables are attached properly, or the provided connector plug is installed. Also, make sure that the IP67-rated cover is installed properly. If the accessories are not attached properly, the rating is IP65.</p> </div>
Shock (Shipping and Storage)	IEC 60068-2-27: 1000 shocks, semi-sinusoidal, 11 g, 10 ms IEC 60068-2-27: 18 shocks (3 each polarity and axis), 80Gs (800 m/s ² at 11 ms, half-sinusoidal) with cables or cable plugs and appropriate lens cover attached. ISTA-1A Standardized Testing - Packaged Products 150 lb or less
Vibration (Shipping and Storage)	IEC 60068-2-6: vibration test in each of the three main axis for 2 hours @ 10 Gs (10 to 500 Hz at 100 m/s ² / 15 mm) with cables or cable plugs and appropriate lens cover attached. FedEx Vibration Testing for packaged products 150 lbs or less
RS-232	RxD, TxD according to TIA/EIA-232-F
USB	USB 2.0, Device Configuration Mode
Codes	1-D barcodes: Codabar, Code 25, Code 39, Code 128, Code 93, UPC/EAN/JAN, MSI 2-D barcodes: Data Matrix, QR Code, DotCode
High-Speed Outputs	I_{MAX} : 50 mA V_{OL} : $\leq \pm 3$ V @ 50 mA
Trigger	V_{IL} : $\leq \pm 6$ V
Inputs	V_{IH} : $\geq \pm 12$ V I_{TYP} : 4.2 mA @ 24 V
Ethernet	10/100 BASE-T. Full duplex or half duplex. IEEE802.3

Specification	SLX-290
Job Program and Image Storage Memory	3.3 GB

SLX-290 Series Device Image Sensor

Specification	Values
Image Sensor	1/3-inch CMOS, global shutter, Monochrome
Image Sensor Properties	Diagonal size: 6.21 mm Pixel size: 3.45 μm (H)
Image Resolution (pixels)	1440 × 1080 (1.6 MP)
Electronic Shutter Speed	Minimum exposure: 43 μs Maximum exposure: 200 ms (with external illumination)
Image Acquisition at Full Resolution	Maximum: 45 Hz
Lens Type	4.5 mm f6

Illumination Characteristics

Illumination	24 V Power Supply	
	Maximum Exposure Time	Maximum Duty Cycle
White	10 ms	10%

LED Wavelengths

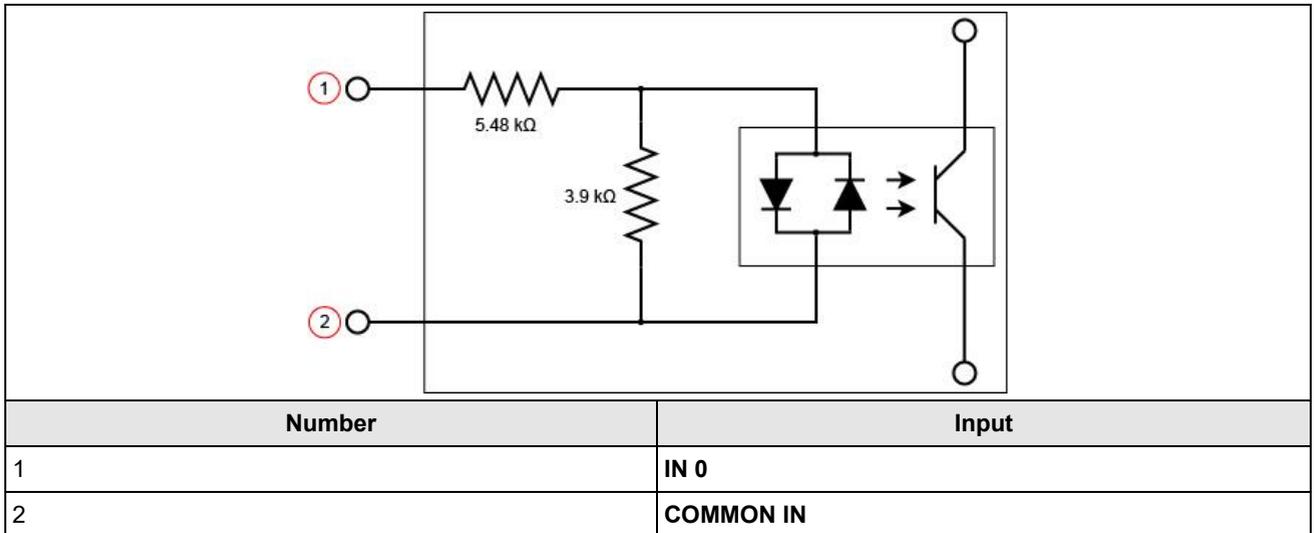
The following table shows LED types and the related peak wavelengths.

LED	Color Temperature / λ [nm]
White	5000K (Color Temperature)

Acquisition Trigger Input

The device features one acquisition trigger input, which is optically isolated. You can configure the acquisition trigger input to trigger from an NPN (current sinking) or PNP (current sourcing) device.

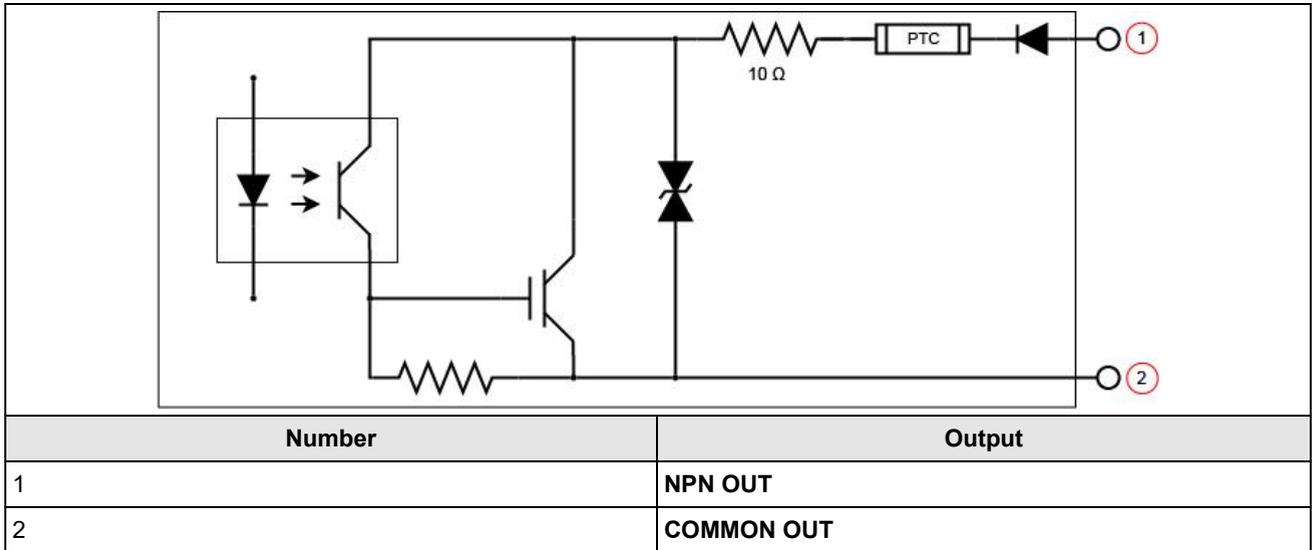
- To trigger from an NPN type photoelectric sensor or PLC output, connect COMMON IN to +24 V DC and connect IN 0 to the output of the photoelectric sensor. When the output turns ON, it pulls TRIGGER down to 0 V DC, turning the opto-coupler ON.
- To trigger from a PNP photoelectric sensor or PLC output, connect IN 0 to the output of the photoelectric sensor and connect COMMON IN to 0 V DC. When the output turns ON, it pulls TRIGGER up to +24 V DC, turning the opto-coupler ON.



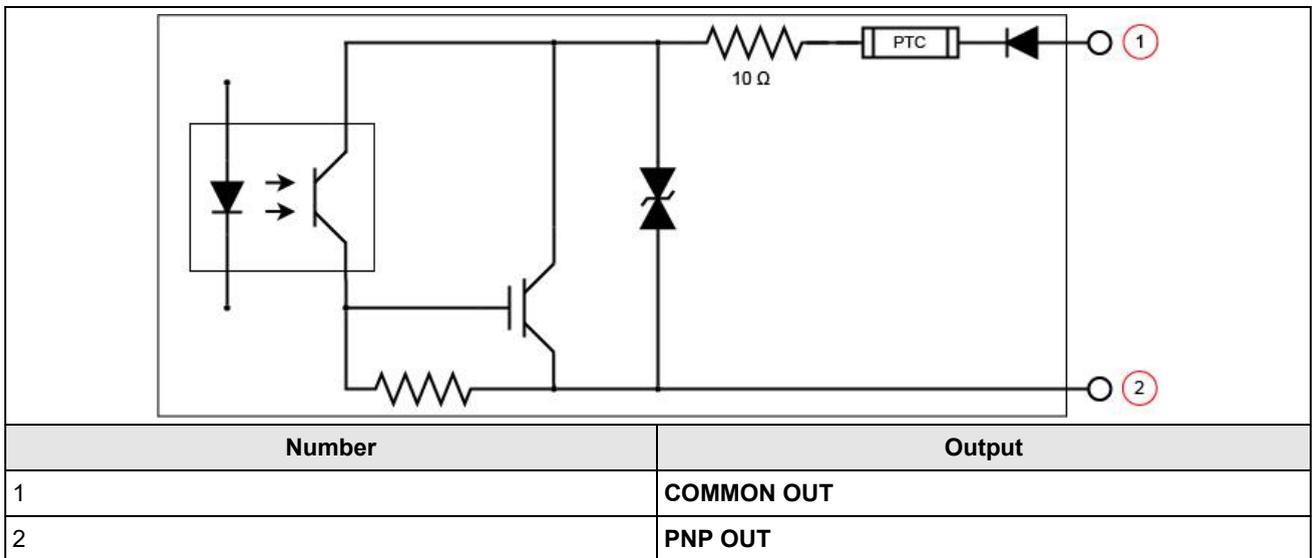
High-Speed Outputs

Specification	Description
Voltages	V_{MAX} : 26 V DC through external load V_{OL} : $\leq \pm 3$ V @ 50 mA
Current	I_{MAX} : 50 mA maximum sink or source current Each line is protected against over-current, short circuits and transients from switching inductive loads. High current inductive loads require an external protection diode.

For NPN lines, connect the external load between the output and the positive supply voltage (< 26 V DC). The output pulls down to less than 3 V DC when ON, which causes current to flow through the load. When the output is OFF, no current flows through the load.

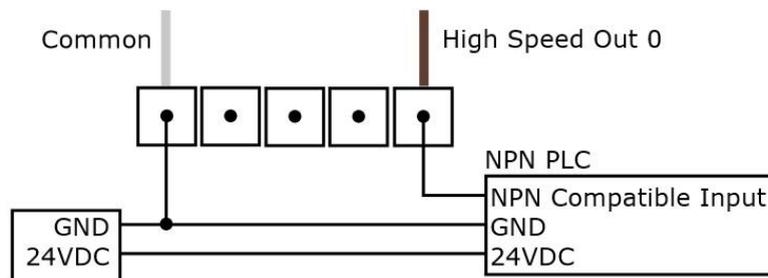


For PNP lines, connect the external load between the output and the negative supply voltage (0 V DC). When connected to a 24 V DC power supply, the output pulls up greater than 21 V DC when ON, and current flows through the load. When the output is OFF, no current flows through the load.

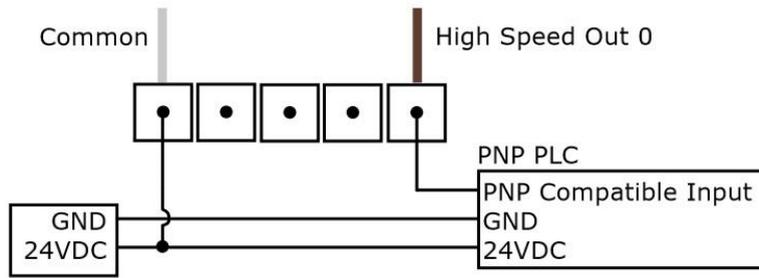


High Speed Output Wiring

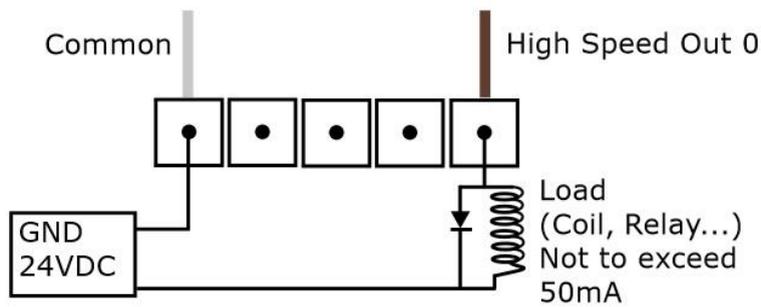
To connect to an NPN-compatible PLC input, connect one of the high-speed outputs of the device directly to the PLC input. When enabled, the output pulls the PLC input down to less than 3 V DC.



To connect to a PNP-compatible PLC input, connect one of the high-speed outputs of the device directly to the PLC input. When enabled, the output pulls the PLC input up to greater than 21 V DC.



To connect the high-speed outputs to a relay, LED or similar load, connect the negative side of the load to the output and the positive side to +24 V DC. When the output switches on, the negative side of the load is pulled down to less than 3 V DC, and 21 V DC appears across the load. Use a protection diode for a large inductive load, with the anode connected to the output and the cathode connected to +24 V DC.



Cleaning and Maintenance

Clean the Housing

To clean the outside of the device housing, use a small amount of mild detergent cleaner or isopropyl alcohol on a cleaning cloth. Do not pour the cleaner on the device housing.

 **CAUTION:** Do not attempt to clean any SLX product with harsh or corrosive solvents, including lye, methyl ethyl ketone (MEK) or gasoline.

Clean the Device Image Sensor Window

To remove dust from the outside of the image sensor window, use a pressurized air duster. The air must be free of oil, moisture or other contaminants that could remain on the glass and possibly degrade the image. Do not touch the glass window. If oil or smudges remain, use a cotton bud and alcohol (ethyl, methyl, or isopropyl) to clean the window. Do not pour the alcohol on the window.

Clean the Device Lens Cover

To remove dust from the lens cover, use a pressurized air duster. The air must be free of oil, moisture or other contaminants that could remain on the lens cover. To clean the plastic window of the lens cover, use a small amount of isopropyl alcohol on a cleaning cloth. Do not scratch the plastic window. Do not pour the alcohol on the plastic window.

Regulations and Conformity

Note: For the most current CE and UKCA declaration and regulatory conformity information, see the Cognex support site: cognex.com/support.

The SLX 290 device has the Regulatory Model 50141 and meets or exceeds the requirements of all applicable standards organizations for safe operation. However, as with any electrical equipment, the best way to ensure safe operation is to operate them according to the agency guidelines that follow. Please read these guidelines carefully before using your device.

Safety and Regulatory	
Manufacturer	Cognex Corporation One Vision Drive Natick, MA 01760 USA
	SLX 290: Regulatory Model 50141 This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take immediate measures. This equipment complies with the essential requirements of the EU Directive 2014/30/EU. Declarations are available from your local representative.
EU RoHS	Compliant to the most recent applicable directive.
FCC	FCC Part 15, Class A This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
Korea 	SLX 290: Regulatory Model R-R-CGX-50141 This device is certified for office use only and if used at home, there can be frequency interference problems.
TÜV SÜD	SLX 290: Regulatory Model 50141 NRTL: NRTL OSHA Scheme for UL/CAN 61010-1 CB report available upon request. IEC/EN 61010-1.
	Regulator Model 50141 This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take immediate measures. This equipment complies with the essential requirements of the Electromagnetic Compatibility Regulations 2016. Declarations are available from your local representative.

中国大陆RoHS (Information for China RoHS Compliance)

根据中国大陆《电子信息产品污染控制管理办法》(也称为中国大陆RoHS), 以下部份列出了本产品中可能包含的有毒有害物质或元素的名称和含量。



	Hazardous Substances 有害物质					
Part Name 部件名称	Lead (Pb) 铅	Mercury (Hg) 汞	Cadmium (Cd) 镉	Hexavalent Chromium (Cr (VI)) 六价铬	Polybrominated biphenyls (PBB) 多溴联苯	Polybrominated diphenyl ethers (PBDE) 多溴二苯醚
Regulatory Model 50141	X	O	O	O	O	O

This table is prepared in accordance with the provisions of SJ/T 11364.

这个标签是根据SJ/T 11364 的规定准备的。

O: Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB / T26572 - 2011.

表示本部件所有均质材料中含有的有害物质低于GB / T26572 - 2011 的限量要求。

X: Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB / T26572 - 2011.

表示用于本部件的至少一种均质材料中所含的危害物质超过GB / T26572 - 2011 的限制要求。

For European Community Users

Cognex complies with Directive 2012/19/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE).

This product has required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment, if not properly disposed.

In order to avoid the dissemination of those substances in our environment and to diminish the pressure on the natural resources, we encourage you to use the appropriate take-back systems for product disposal. Those systems will reuse or recycle most of the materials of the product you are disposing in a sound way.



The crossed out wheeled bin symbol informs you that the product should not be disposed of along with municipal waste and invites you to use the appropriate separate take-back systems for product disposal.

If you need more information on the collection, reuse, and recycling systems, please contact your local or regional waste administration.

You may also contact your supplier for more information on the environmental performance of this product.

