

SLX[®]-3816 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:

- Connectivity is possible through the following options:
 - 24 VDC (+/- 10%) output connection using a UL or NTRL listed 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.
 - Include service loops with cable connections.
 - 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-3816 device and systems.

About the SLX-3816 Series

The SLX-3816 series devices are high-performance devices that offer:

- Maximum coverage and throughput in a single device
- Fast object presence detection with the Pinpoint tool
- Flexible and modular design for any application



Setting Up Your SLX-3816 Device

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

Note:



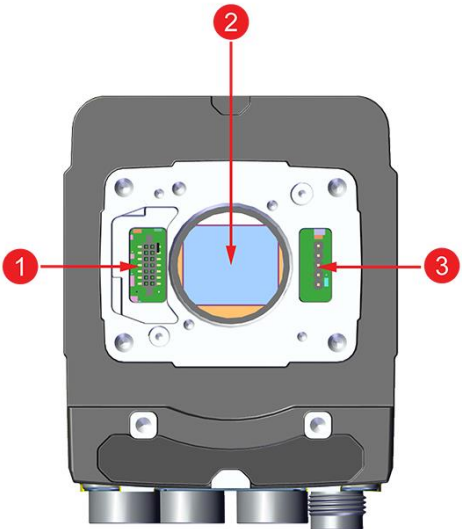
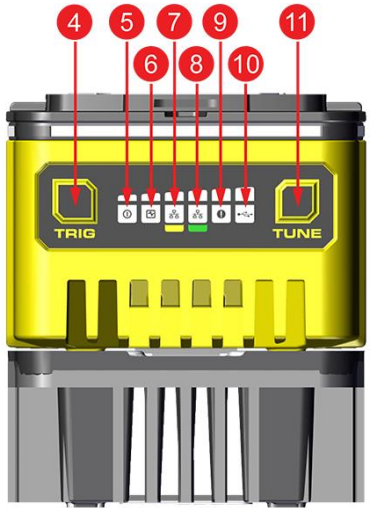
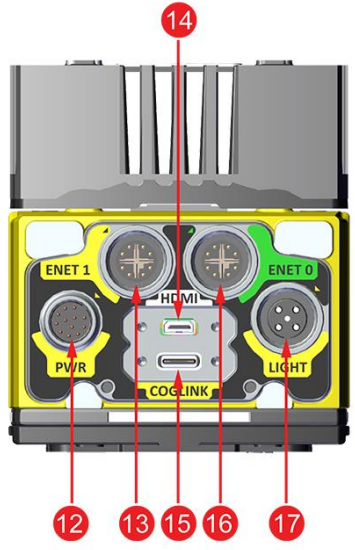
- Cables are sold separately.
- If a standard component is missing or damaged, immediately contact your Cognex Authorized Service Provider (ASP) or Cognex Technical Support.



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.

Image	Number	Description
	1	Integrated Illumination connector
	2	Imager/C-mount flange
	3	Lens connector
	4	Trigger button
	5	Power LED indicator
	6	Train status LED indicator
	7	Ethernet 1 status LED
	8	Ethernet 0 status LED
	9	Error LED indicator
	10	Coglink/USB-C status LED
	11	Tune button
	12	Power I/O Breakout cable connector
	13	Ethernet connector 1
	14	Micro-HDMI connector
	15	Coglink/USB-C connector
	16	Ethernet connector 0
	17	Light connector
	18	Indicator lights
	18	Indicator lights
	19	Heatsink

Indicator LEDs

The table summarizes the functions of the indicator LEDs.

Indicator	Color/Status	Meaning
User LED indicator	GREEN, blinking	Light edges blink in GREEN when the device performs a good read. Note: In case of a good read, the Good/Bad read indicator LED is also blinking in GREEN.
	RED, blinking	Light edges blink in RED when the device performs a bad read when it does not find a decoding after a timeout. Note: In case of a bad read, the Good/Bad read indicator LED is also blinking in RED.
	WHITE	Light edges are WHITE when you trigger the Identify function in DataMan Setup Tool, or in the WebUI. For more information, see <i>DataMan Setup Tool Reference Manual</i> .
Power LED indicator	ON	The device is ON.
	OFF	The device is OFF.
Train/Trigger status LED indicator	ON	If the device has a trained code, this LED is GREEN.
	OFF	If the device has no trained code, this LED is OFF.
Good/Bad read LED indicator	GREEN, blinking	The device performs a good read. Note: In case of a good read, light edges are also blinking in GREEN.
	RED, blinking	The device performs a bad read when it does not find a decoding after a timeout. Note: In case of a bad read, light edges are also blinking in RED.
Communication LED indicator	ON	This LED is ON when the device established the Ethernet connection.
	OFF	This LED is OFF when there is no Ethernet connection.
Error	ON	This LED is ON when the device detects an error.

Installing Manual Lens with HPIT

Note: The lens cover of the High-Powered Integrated Torch (HPIT), accommodates lenses with a maximum length of 82 mm.

To install manual lens with HPIT, do the following:

1. Snap the cable into the device.

Note: Use caution when installing the cable. Connect the side with the black cover to the device, and connect the side with the 2D code to the HPIT.

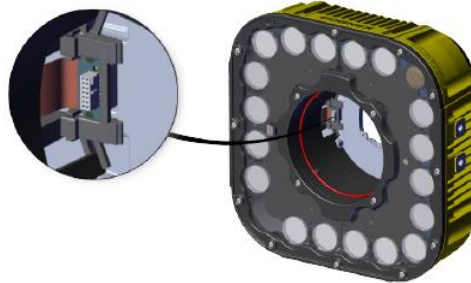


2. Twist in the manual lens.

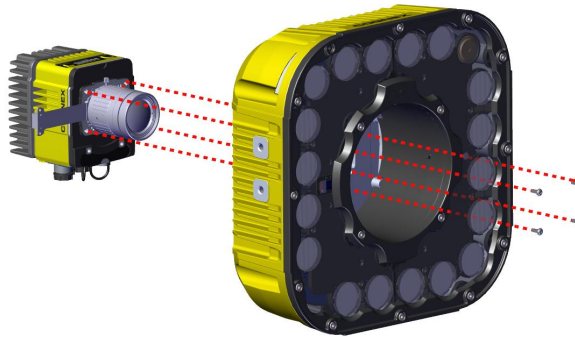


3. Bend the other end of the cable and feed the cable through the back of the illumination module.

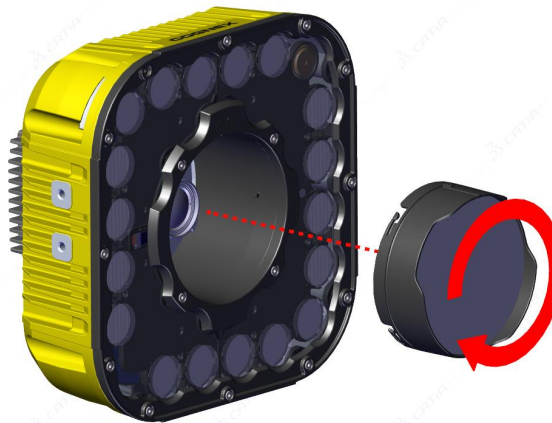
Note: Only snap the cable into place after you have completely attached the device to the illumination module with the screws. Otherwise, the cable might break.



4. Screw in the four screws from the illumination module into the device.



5. Snap the cable into place in the illumination module.
6. Align the slots in the cover with the illumination module. Twist slightly to lock the cover in.



Mounting the Device

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

CAUTION: The device has to be grounded, either by mounting the device to a fixture that is electrically grounded or by attaching a wire from the mounting fixture of the device to frame ground or Earth ground. If a ground wire is used, it has to be attached to one of the mounting points on the bottom plate of the device and not to the mounting points on the front of the device.

Note: The mounting kits do not include nuts for attaching the bracket to the frame.

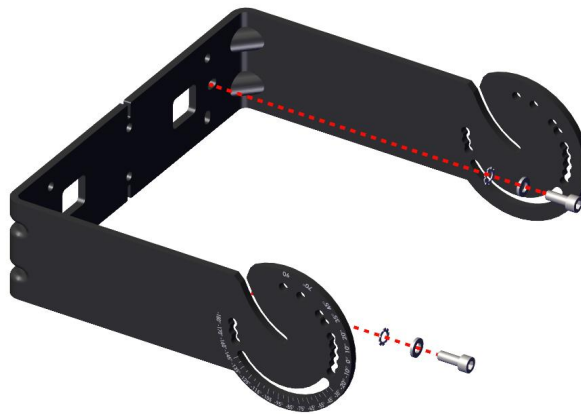
Mounting with U-shaped Bracket for HPIT

In order to install your device on a frame, you need to mount the device to a bracket because the bracket holds the device on the frame.

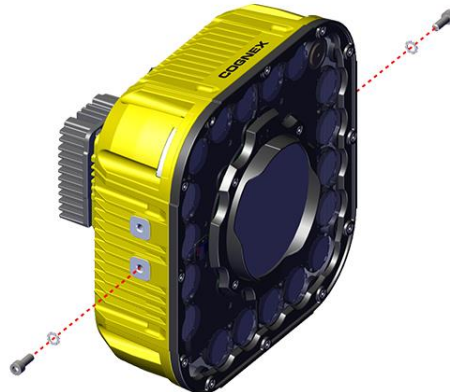
Note: You cannot mount the device directly to the frame.

To mount the device with a U-shaped bracket, do the following:

1. Attach the pivot bracket to the frame.



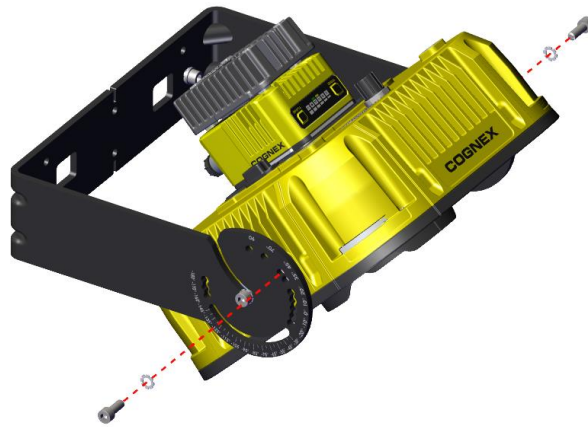
2. Insert the rotation axis screws without fully tightening them.



3. Slide the device into the mounting bracket through the central slot.

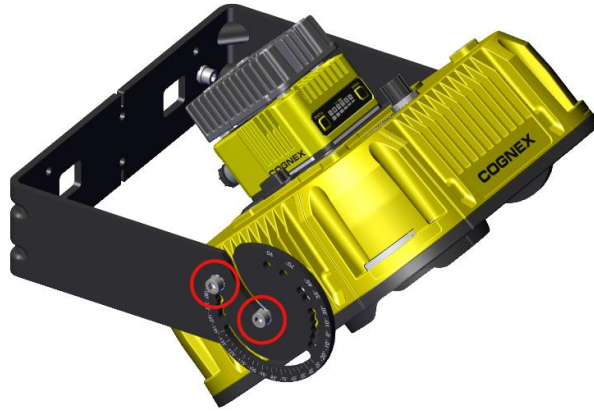


4. Insert a screw into a preset hole or in the sliding slot at the appropriate angle.



5. Tighten the mounting screws.

i Note: Apply a maximum of 5 Nm torque when tightening the screws.



Connection Options

This section summarizes connection options.

For more information on connecting your device to your network, see the [Getting Started Step](#).

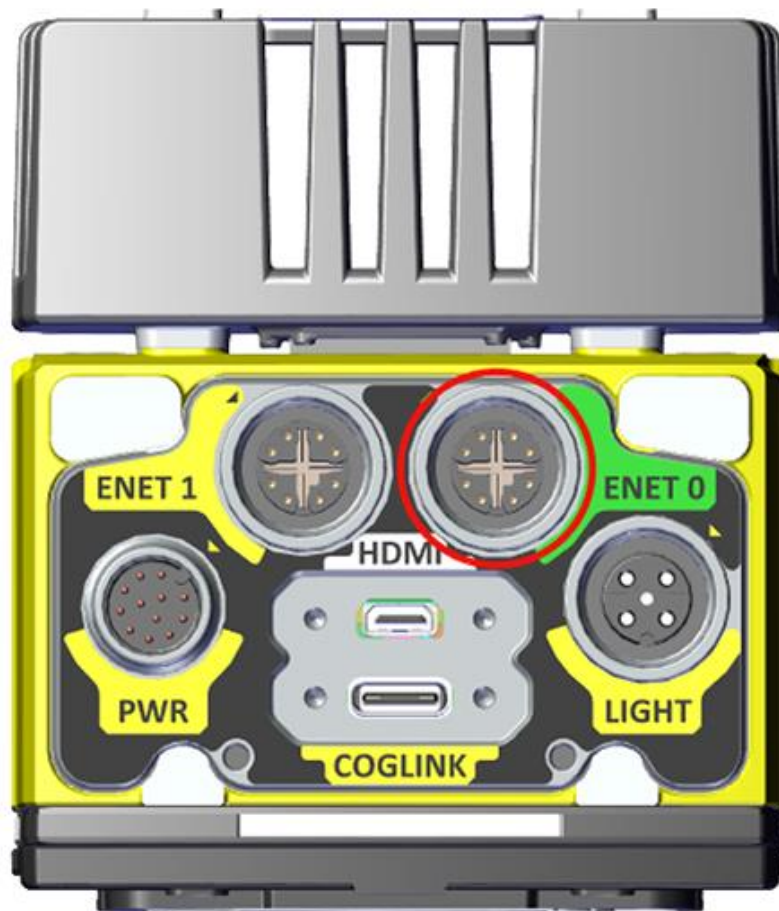
For more information on how to connect your device to your network, see the *DataMan Communications and Programming Guide*.

Connecting the Ethernet Cable

CAUTION: The Ethernet cable shield has to be grounded at the far end. If the far end device is not grounded, add a ground wire in compliance with local electrical codes. The cable is typically plugged into a switch or router, which has to have a grounded Ethernet connector. Use a digital voltmeter to validate the grounding.

1. Connect the M12 connector of the Ethernet cable to the green ENET0 connector of the device.

Note: You can also use ENET1 for Ethernet communication with the limitation that Multi-Reader Sync and PTP are bound to ENET0.



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.

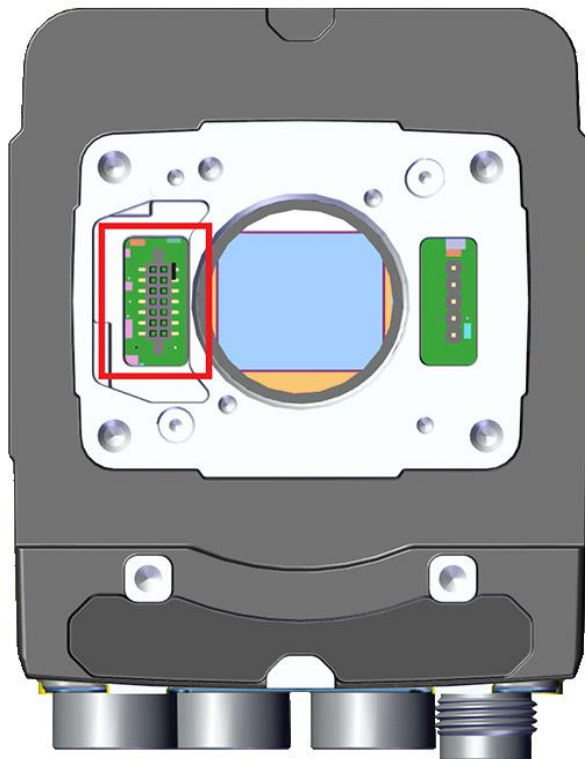
1. Verify that the 24 V DC power supply is unplugged and not receiving power.
2. Attach the +24 V DC connector of the Power and I/O Breakout cable and Ground wires to the corresponding terminals on the power supply. For more information, see [Hardware Specifications on page 44](#).
3. Attach the M12 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.

Powering the Integrated Illumination

You can power the integrated illumination either internally or externally.

Internal Power

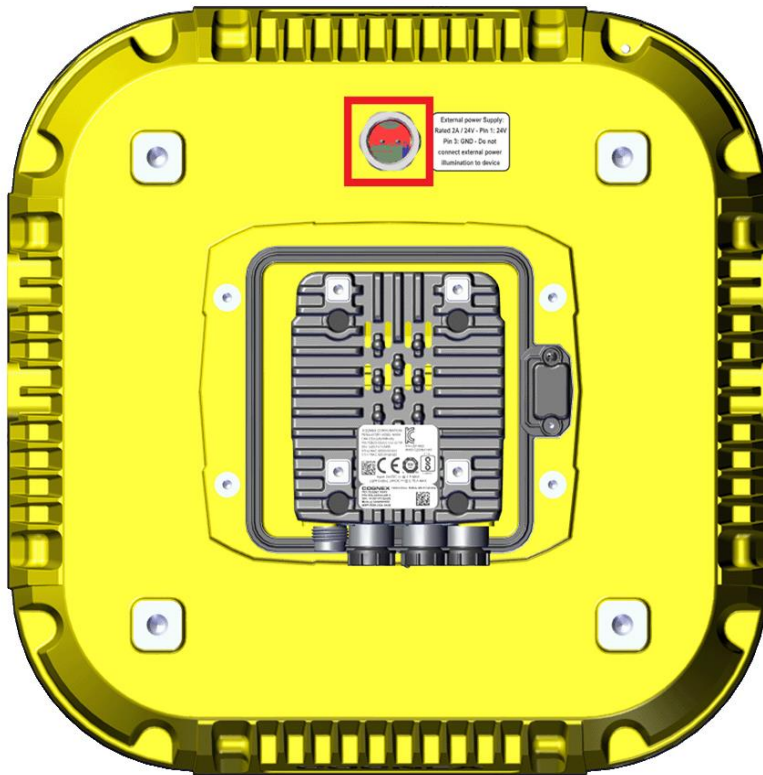
Use the integrated illumination connector on the front of the device.



For more information on how to connect the illumination to the device, see [Installing Manual Lens with HPIT on page 11](#).

External Power

Connect an external power supply to the external power connector on the back of the illumination.

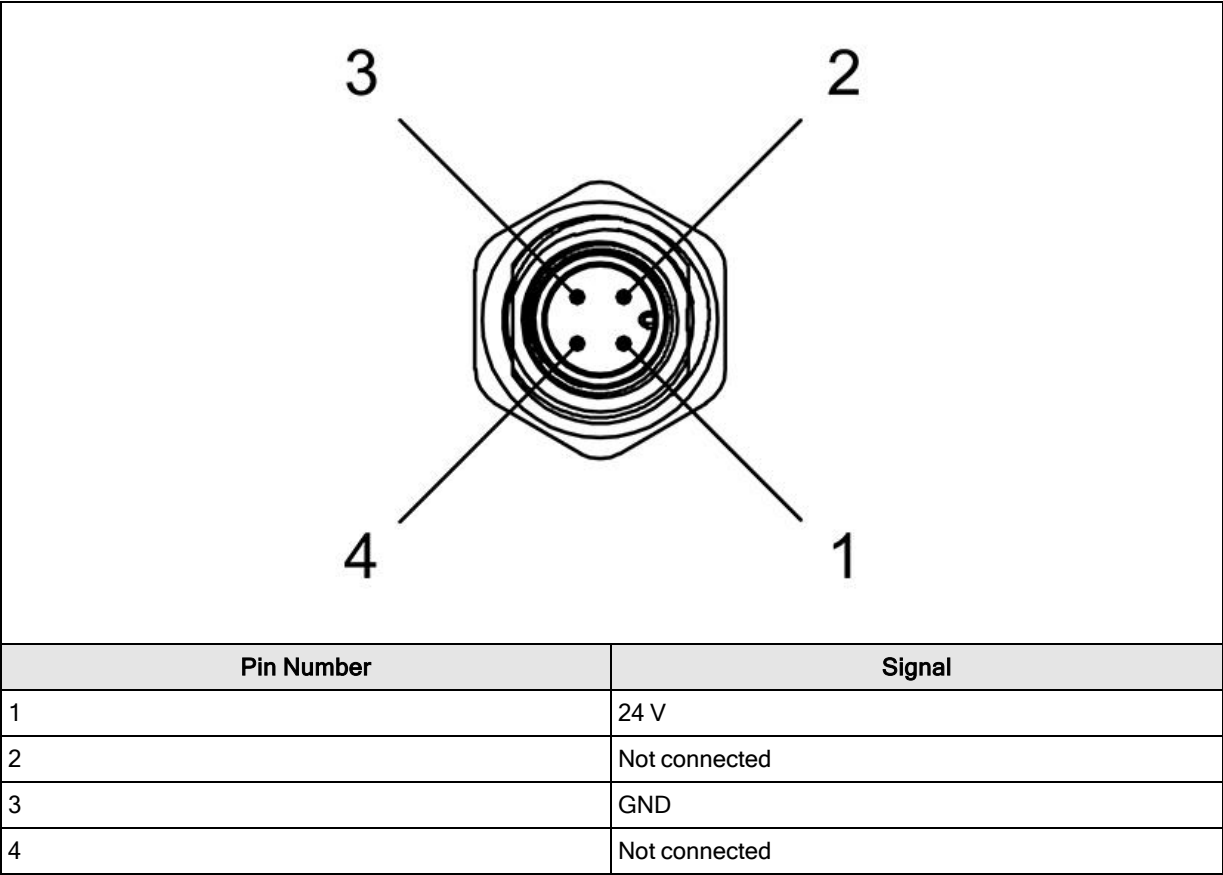


Observe the following measures when using external power for the illumination:

- Use a separate power supply rated for 24 V and 2 A.
- Connect the illumination to the front of the device before powering on either the device or external illumination

connector.

- Use a cable for connecting the illumination to the PSU with an M12 connector that conforms to the following pinout:



CAUTION: Do not use the LIGHT connector to power the integrated light externally.

Emulate Serial Functionality through USB

You can use the USB connector of the device for emulating serial (USB-COM) functionality. If you connect a USB-C cable, you can see a COM port in the Windows Device Manager, as a generic USB-COM port.

To emulate serial functionality:

1. Set the **USB Connection** properties in the **Serial** tab of the **Communication Settings** panel in DataMan Setup Tool.
2. Look at the Windows Device Manager to identify the proper device.
3. Enable the **Serial-over-USB** option in DataMan Setup Tool, because it is disabled by default.

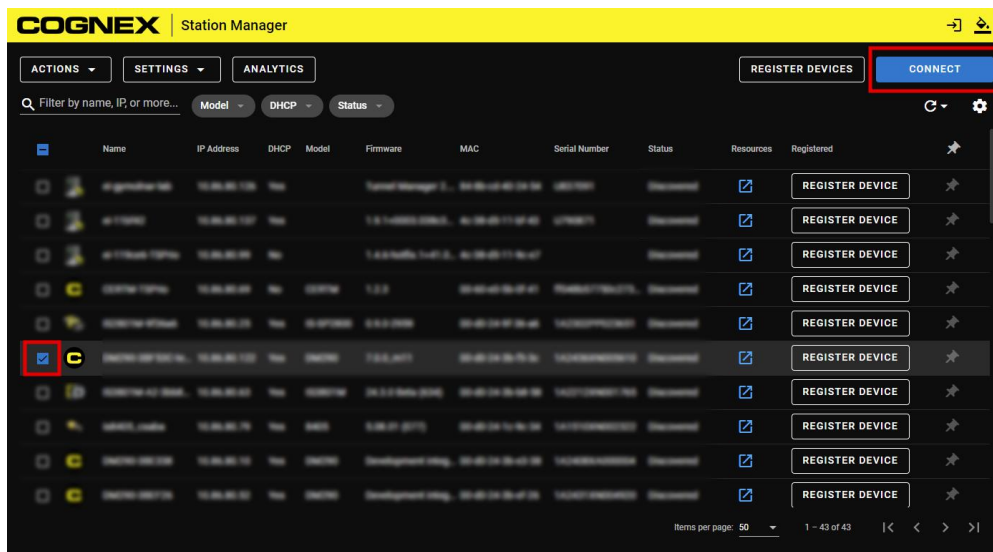
Using Your SLX-3816 Device

This section provides information on how to use the PinPoint tool, the installation of DataMan Setup Tool, trigger types, and protocols.

Connect to Station Manager

To connect to the Station Manager:

1. Go to support.cognex.com/en/products/station-manager 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 the device.



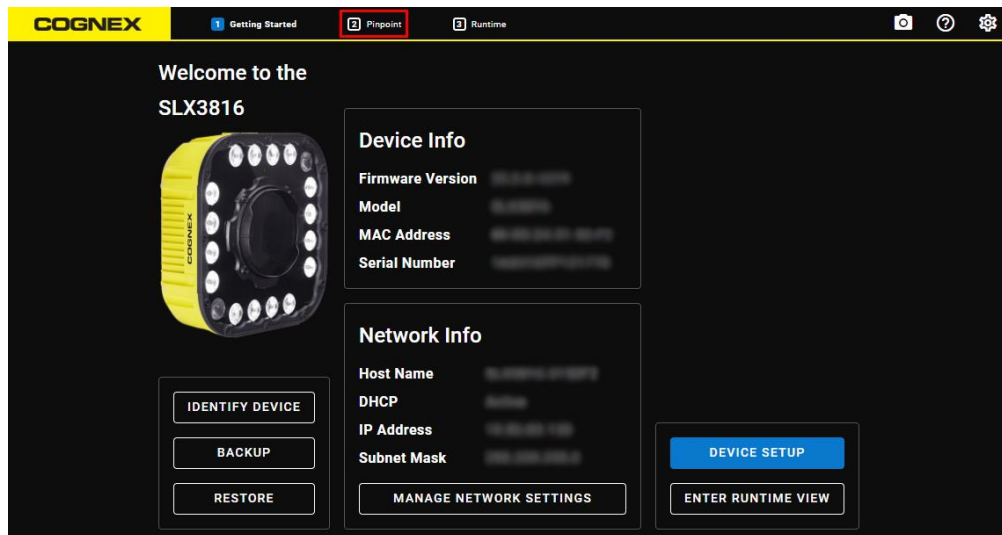
Getting Started in the WebUI

After assembling the device, connect the device to your software network. The device automatically connects to your network, with the option to configure the connection manually.

To configure the network settings manually in the WebUI:

1. Enter the IP address of the device into a web browser to open WebUI. You can also find the device in the DataMan Setup Tool or Station Manager.

Note: You can find out the IP address by using the DataMan Setup Tool or Station Manager.



2. Click **Manage Network Settings** to configure the network settings.
3. If you need a static IP address for the device, disable the **DHCP** toggle and provide the network settings:

Configure network settings for the device

Host Name SLX3816-3152F2

DHCP ☒

IP Address

Subnet Mask

Default Gateway

DNS Server

Domain Name

Ready

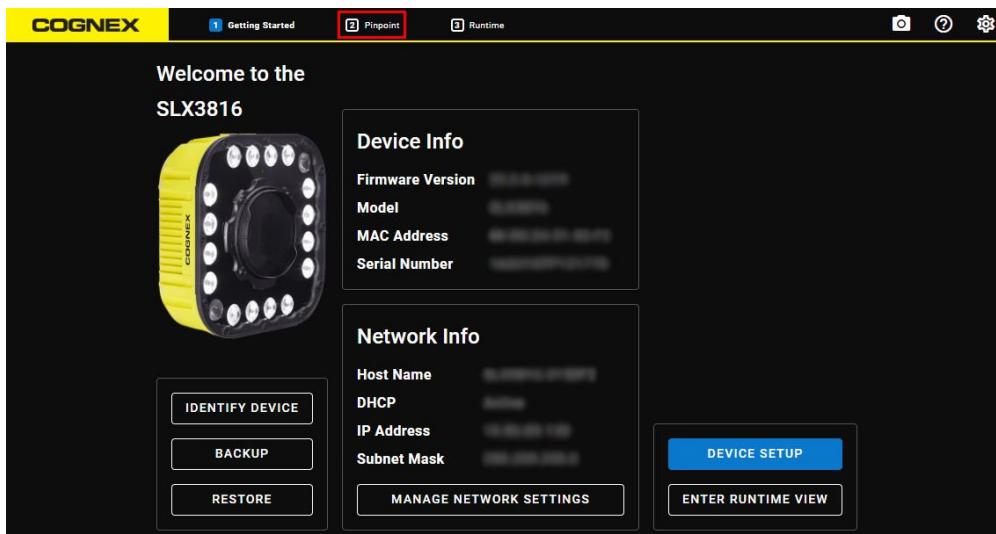
APPLY NETWORK SETTINGS

- Click **Apply Network Settings** to save the changes.

Using the PinPoint Tool

The PinPoint tool identifies packages and detects improper gapping between items and identify spacing problems in the production scene. The Side-by-Side feature helps to avoid sorting issues on the conveyor belt by flagging items that are too near or completely next to each other.

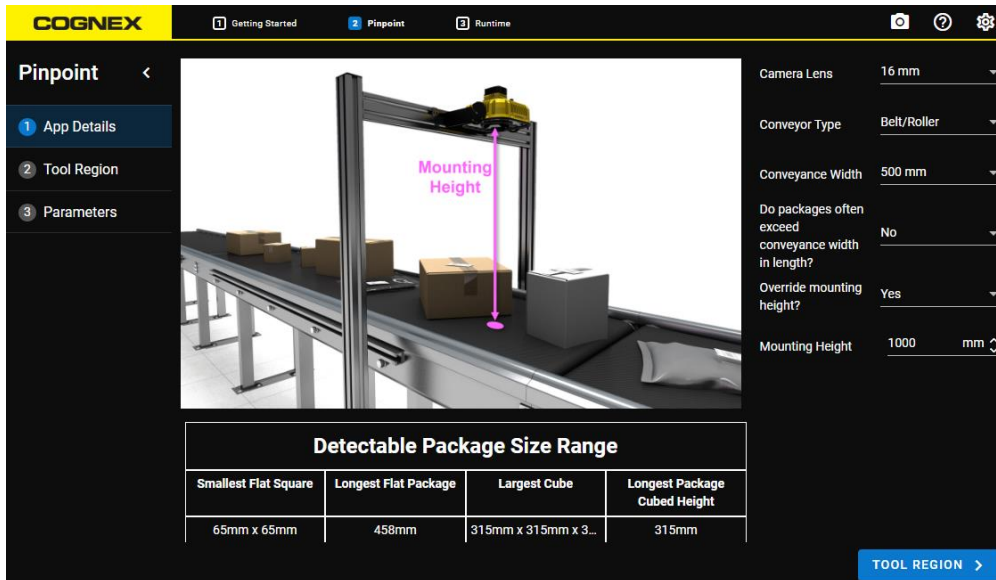
Click the **PinPoint** step in the **Getting Started** to start the tool:



The PinPoint tool automatically starts.

App Details

Provide details about your production environment. The PinPoint tool calculates the optimal mounting height and the detectable size range of the packages.



In the **App Details**, configure the following settings:

1. **Camera Lens:** Select the lens of your device.

Note: If you are unsure which lens to choose, check the part number (PID) on the back of the device. The PID is either SLX-3816-MxxH or SLX-3816-MxxC, where xx indicates the lens type.



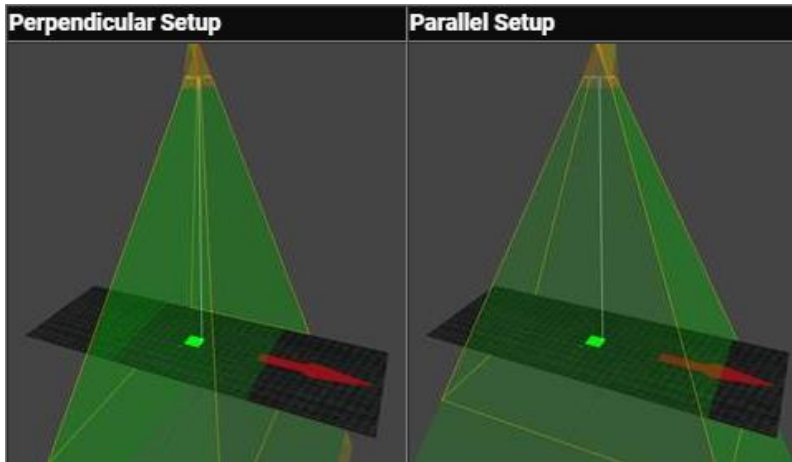
2. **Conveyor Type:** Choose the conveyor type. Currently only **Belt/Roller** is available.
3. **Conveyance Width:** Select the width of the conveyor belt. If the width is between two sizes, choose the larger one to ensure full belt coverage.

This setting determines the mounting height of the device and the range of detectable object sizes. To support detecting larger packages, select a wider conveyance width that allows higher mounting.
4. **Do packages often exceed conveyance width in length?:** Select **Yes** if the packages are typically larger than the conveyor belt. In this case, rotate the mounting orientation by 90 degrees to optimize the field of view of the device.
5. **Override mounting height?:** Choose **Yes** if you cannot use the recommended mounting height.
6. **Mounting Height:** Provide the mounting height if you do not want to use the recommended mounting height in the previous step.

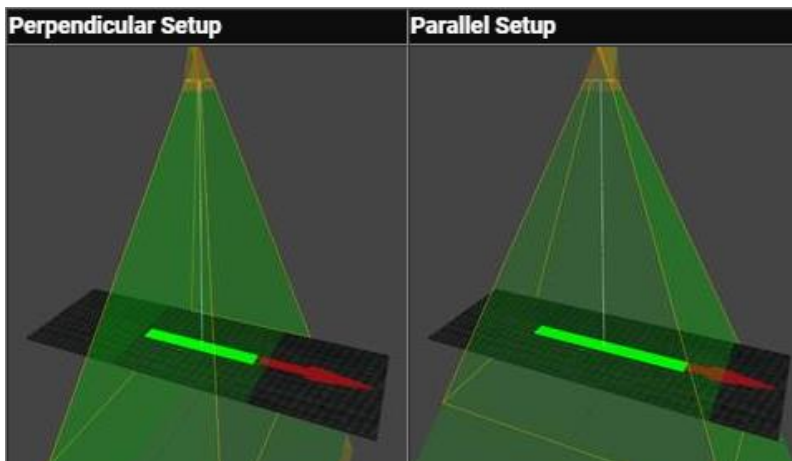
7. The **Detectable Package Size Range** table updates automatically. Verify the data in the table before proceeding to the next step.

The table measures the following size ranges:

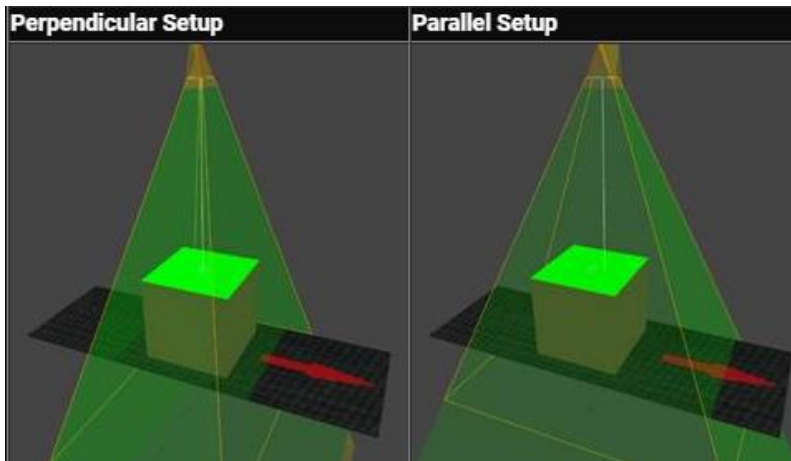
- **Smallest Flat Square:** The minimum side length of a flat package that the PinPoint can detect.



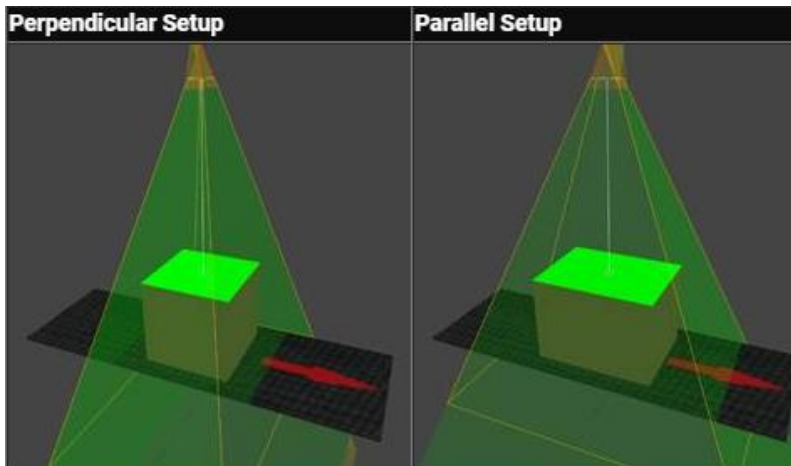
- **Longest Flat Package:** The longest flat package that fits in the Field of View (FoV) and the PinPoint can detect.



- **Largest Cube:** The largest regular cube that PinPoint can detect. The device has a triangular FoV, so if the packages are shorter than the listed height, the PinPoint can detect wider or longer packages.



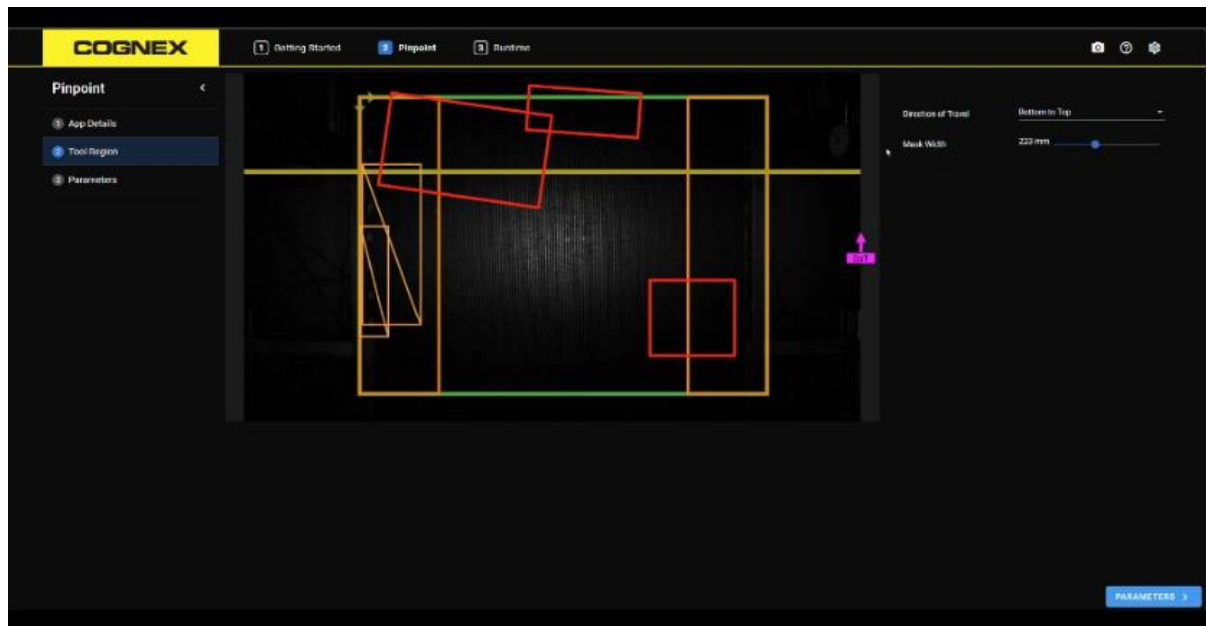
- **Longest Package Cubed Height:** The longest package length that fits into the FoV and that the PinPoint can detect at the height of the Largest Cube.



8. Click **Tool Region** to continue.

Tool Region

The **Tool Region** pane shows details about the Region of Interest (ROI) of the device. In this pane, set the size of your ROI and the direction your packages travel and exclude the edge of the conveyor belt from the ROI.

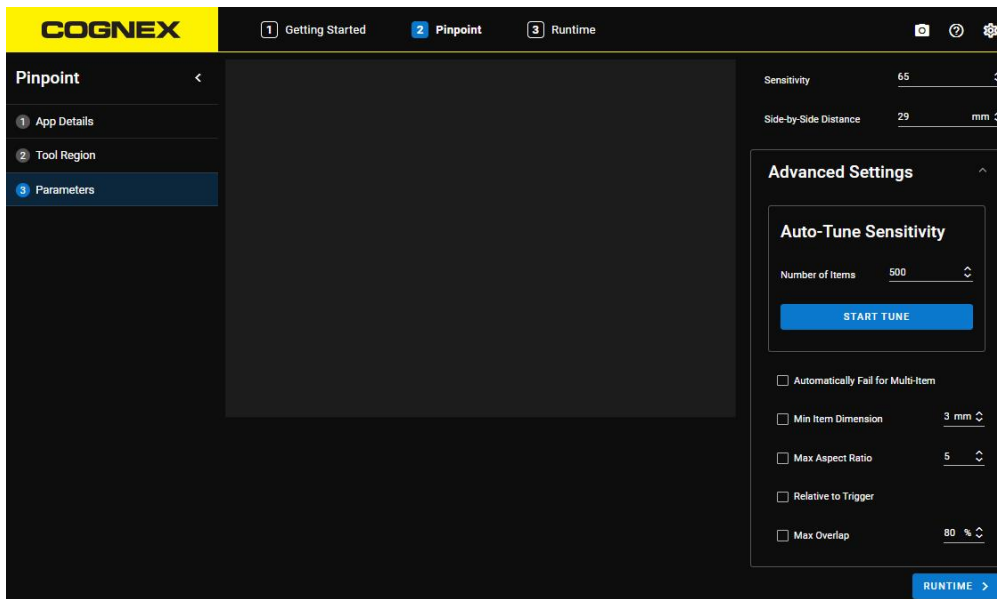


In the **Tool Region**, select the following:

1. **ROI:** Click-and-drag the green box to define the ROI of the PinPoint tool. Center the ROI over the conveyance surface.
2. **Direction of Travel (DoT):** Select which direction the packages move through the FoV of the device. The magenta arrow shows the direction. If you change the ROI or the DoT, the trigger line automatically adjusts.
3. **Mask Width:** Set the mask region in orange on both sides of the ROI to exclude areas from detection, for example conveyor edges, motor housings, or guards.
4. **Trigger Line:** When a package crosses the trigger line, that triggers an image acquisition. Increase or decrease the trigger delay by moving the trigger line upstream or downstream.
5. Click **Parameters** to continue.

Parameters

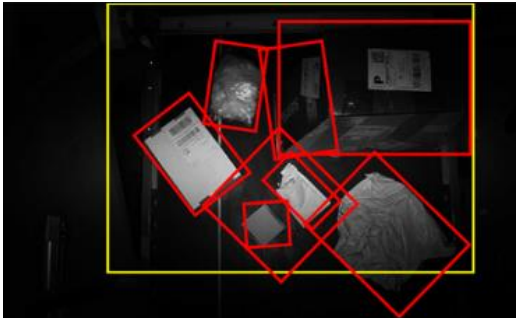
In the **Parameters** pane, fine-tune your application for the best performance, for example, by setting the distance between the packages.



1. **Sensitivity:** Determine the sensitivity of the PinPoint tool for detecting items. A typical sensitivity range is between 30 and 60. If you are unsure about the right sensitivity score, you can calculate it with using the **Auto-Tune Sensitivity** function in the **Advanced Settings**.

- Lower sensitivity scores improve the detection of low-contrast items but the chance of false detections of background features can increase. Set a lower sensitivity score to detect low-contrast, harder detectable items. The following two examples show a sensitivity score set to 10 and 30:

Sensitivity Score 10



Sensitivity Score 30



- Higher sensitivity scores reduce false detections, but the tool can miss challenging items or scenarios, for example when the packages are too near or next to each other. Set a higher sensitivity score to detect high-contrast, easily detectable packages. The following two examples show a sensitivity score set to 60 and 80:

Sensitivity Score 60



Sensitivity Score 80

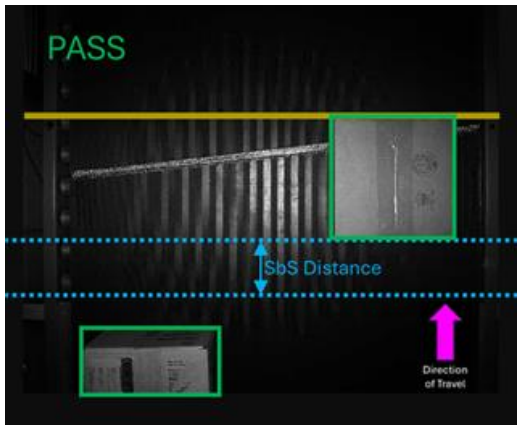


2. **Side-by-Side (SbS) Distance:** If two packages get too near or next to each other on the conveyor belt, they can cause sorting issues. The PinPoint tool flags these packages as Side-by-Side and the image of these packages fails.

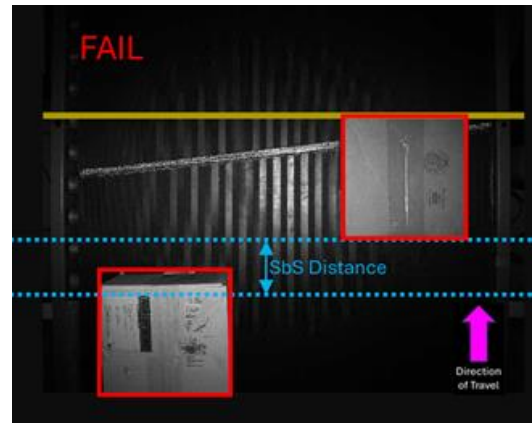
To avoid sorting issues, provide the spacing distance in millimeters between two packages.

- **Positive Value:** Set a positive value if you require a minimum gap between packages in the direction of travel. If the gap is smaller than this value, PinPoint tool flags the packages as a Side-by-Side.

No Side-by-Side

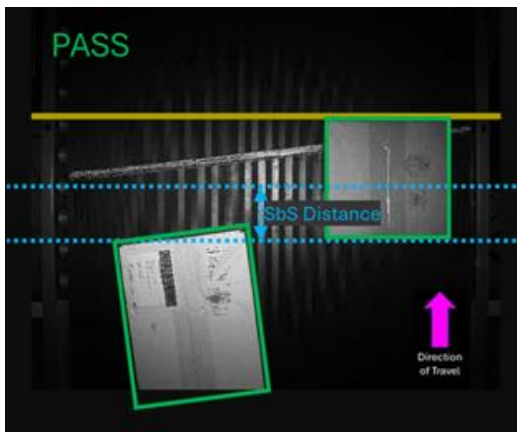


Side-by-Side

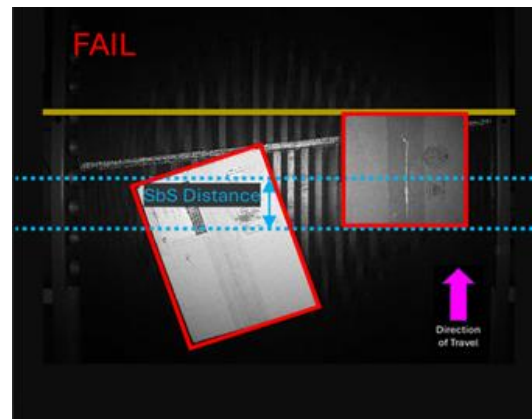


- **Negative Value:** Set a negative value to determine the maximum allowable overlap between packages. If the overlap exceeds this value, PinPoint tool flags the packages as a Side-by-Side.

No Side-by-Side



Side-by-Side

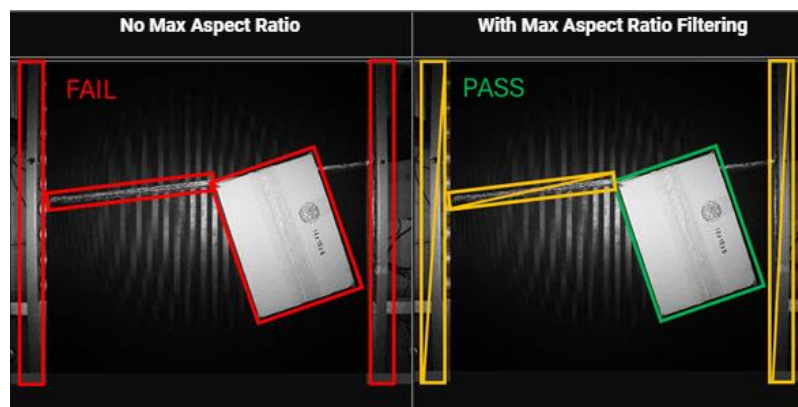


- Set this value to 0 if you want to flag only true Side-by-Side conditions. True Side-by-Side means when the packages are completely next to each other.

3. (Optional) Set the following **Advanced Settings**:

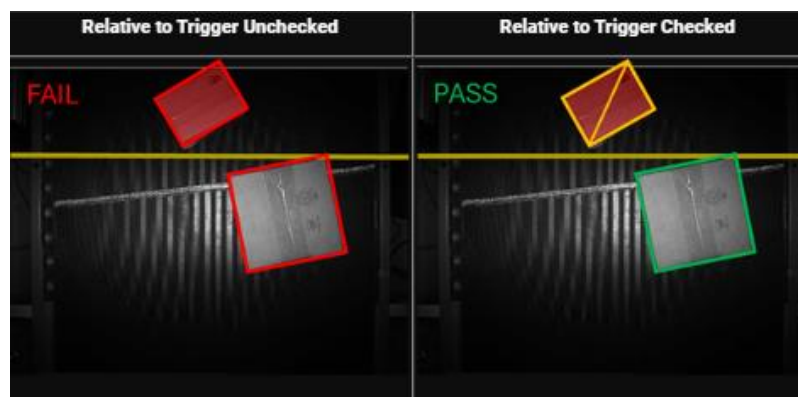
- a. **Auto-Tune Sensitivity**: Use Auto-Tune to let device automatically calculate the sensitivity score for you.
 - i. Provide the **Number of Items** to use for auto-tuning. The more packages you have, the more precise the calculation is.
 - ii. Click **Start Tune** and run production until the device captures the set number of items.
 - iii. Monitor the progress. At the end of the process, the sensitivity score automatically updates.
- b. **Automatically Fail for Multi-Item**: Check the checkbox if you want the tool to flag a side-by-side if it detects two or more objects in the ROI.
- c. **Min Item Dimension**: Check the checkbox and enter the minimum size for the smallest object to find. The tool filters out items smaller than the specified dimension.
- d. **Max Aspect Ratio**: Check the checkbox and set a ratio to filter out items if their length-to-width ratio exceeds the specified value.

If **Max Aspect Ratio** is disabled, the PinPoint tool depicts potential candidates on the image, including false artifacts like conveyor guards or belt seams, leading to unnecessary item detection. If you enable **Max Aspect Ratio**, PinPoint tool filters out these false detections. In the following example, the detection of false items marks the image as failed, while filtering out unnecessary items on the image marks the image as passed:

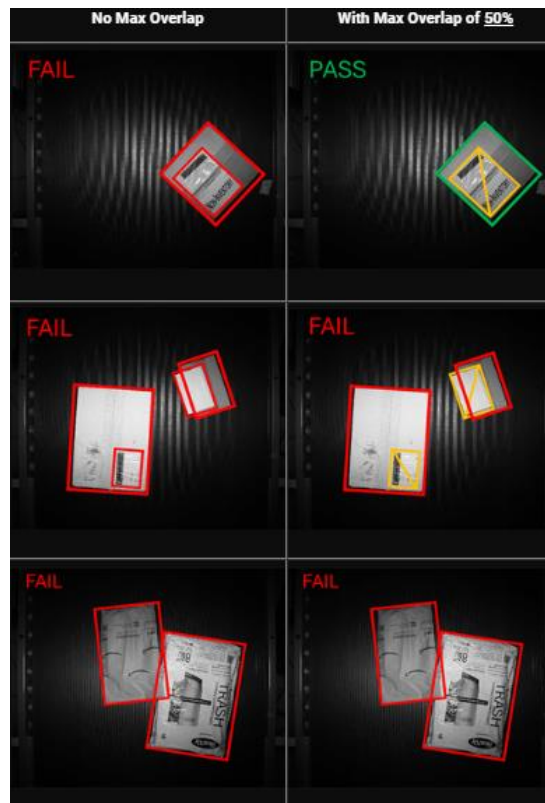


- e. **Relative to Trigger**: Check the checkbox to filter out object that are past the trigger line.

In the following example, the center of the red package is beyond the trigger line. If you check **Relative to Trigger**, PinPoint tool filters the package out:



- f. **Max Overlap:** Check the checkbox and set a percentage of overlap to filter out items that overlap with another package above the specified percentage.



Installing DataMan Setup Tool

The DataMan Setup Tool provides additional options for the SLX-3816 device, which you cannot set in the WebUI.

Follow the steps below to install and connect your device to the DataMan Setup Tool.

1. Check the DataMan **Release Notes** for a full list of system requirements.
2. Download the latest version of the DataMan Setup Tool from support.cognex.com/downloads/dataman/software-firmware and follow the on-screen steps.
3. Connect the SLX-3816 series device to your PC.
4. Launch the DataMan Setup Tool and click **Refresh**. Detected devices appear under **COM ports** or **Network devices**, or both.
5. Select a device from the list and click **Connect**.

PinPoint Tool Settings in DataMan Setup Tool

You can change PinPoint tool options not available in the WebUI in DataMan Setup Tool.

The options include:

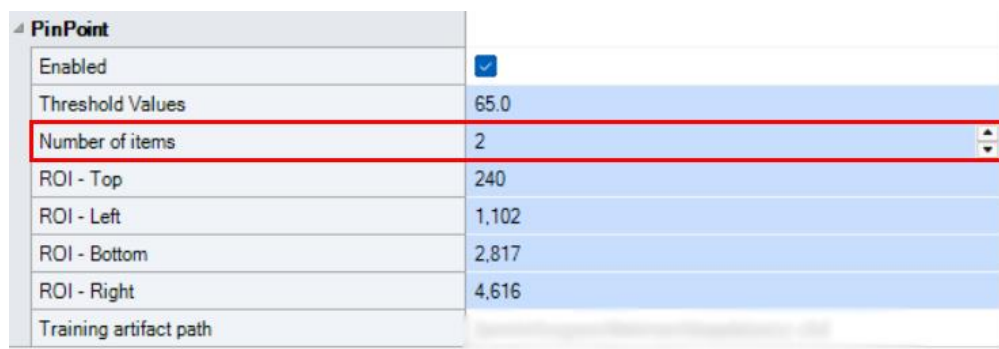
- Detection of more than one item
- Add a trigger delay

Allow the Detection of More Than One Item

Note: Make sure that the **Automatically Fail for Multi-Item** settings is disabled in the WebUI, otherwise the application fails.

If you want the PinPoint tool to detect more than one package, do the following:

1. Open DataMan Setup Tool.
2. Select **Code Details**, then click the **Advanced** tab.
3. Enter a number into the **Number of Items** to determine how many items you want to detect on one image.



Add a Trigger Delay

In some cases, you need to configure a trigger delay manually, for example:

- If you use a Photoeye as a trigger, the light beam of the Photoeye can fall outside of the FoV.
- If you cannot align the trigger line with where the Photoeye is in the WebUI.

In cases like these, you need to add a trigger delay manually, so the device triggers when the packages are within the FoV of the device. Then you can align the trigger line with the leading edge of the box location.

To add a trigger delay:

1. Open DataMan Setup Tool.
2. Select **Application Details** tab.
3. Select the **Delay Type** and enter a **Timeout** value.

Trigger Types

The SLX-3816 devices support the following trigger modes:

- **Self:** The device acquires an image and runs the job continuously at a time interval you configure.
- **Single** (external trigger): Acquires a single image and attempts to decode any symbol it contains, or more than one symbol in cases where multicode is enabled. The device relies on an external trigger source.

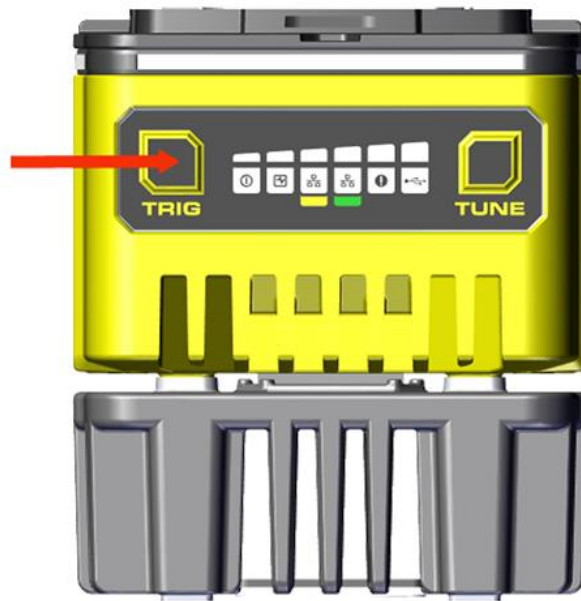
Note: Currently only Single trigger supports the PinPoint tool.

- **Presentation:** Scans, decodes and reports a single code in the field of view. The device relies on an internal timing mechanism to acquire images.
- **Manual:** Begins acquiring images when you press the trigger button on the device, and continues acquiring images until a symbol is found and decoded or you release the button.
- **Burst** (external trigger): Performs multiple image acquisitions based on an external trigger and decodes any symbol appearing in a single image or within a sequence of images, or multiple symbols in a single image or within a sequence of images when multicode is enabled. You can control the number of images within each burst and the interval between image acquisitions.
- **Continuous** (external trigger): Begins acquiring images based on a single external trigger and continues to acquire and decode images until a symbol is found and decoded, or until multiple images containing as many codes as specified in multicode mode are located, or until the trigger is released. You can configure your device to acquire images based on the start and stop signal from separate digital IO pulses.

External Triggers

If you are using external triggering, you can use any of the following methods to trigger your device.

- Press Trigger on the device.



- Send a pulse on the I/O cable.
 - Trigger +
 - Trigger -
- Send a trigger command over any serial connection.
- Press **CTRL+T** on the keyboard while the DataMan Setup Tool has the input focus.
- Click the **Trigger** button in the DataMan Setup Tool.

Note: You can also initiate external triggering through industrial protocols from a programmable logic controller.

Industrial Protocols

The device supports the following industrial protocols:

- EtherNet/IP™, EDS and PLC
- PROFINET (Class B)
- SLMP Protocol

For more information, see *DataMan Industrial Protocols Manual*.

Dimensions and Field of View

The following sections provide details about the dimensions and the Field of View (FoV) of the device.

Dimensions

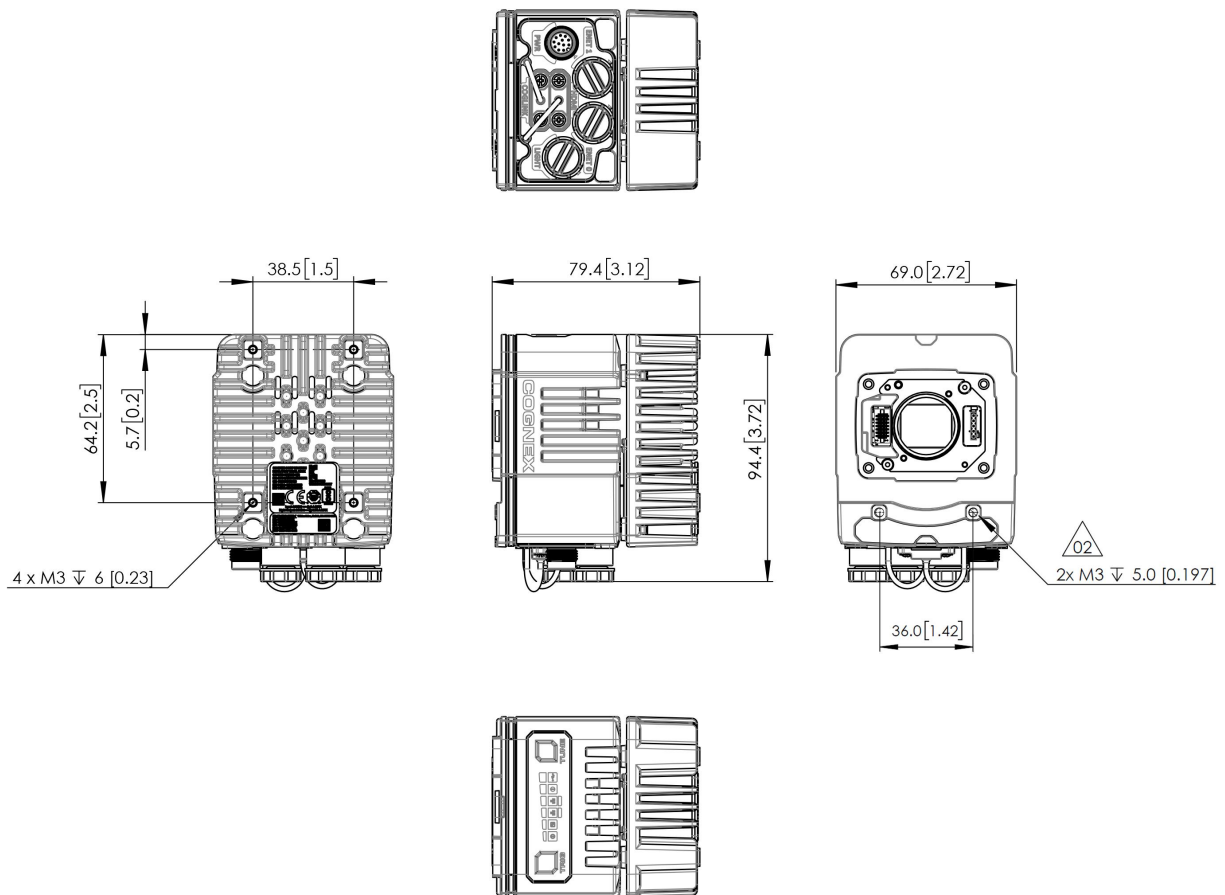
The following sections list dimensions of the device.

Note:

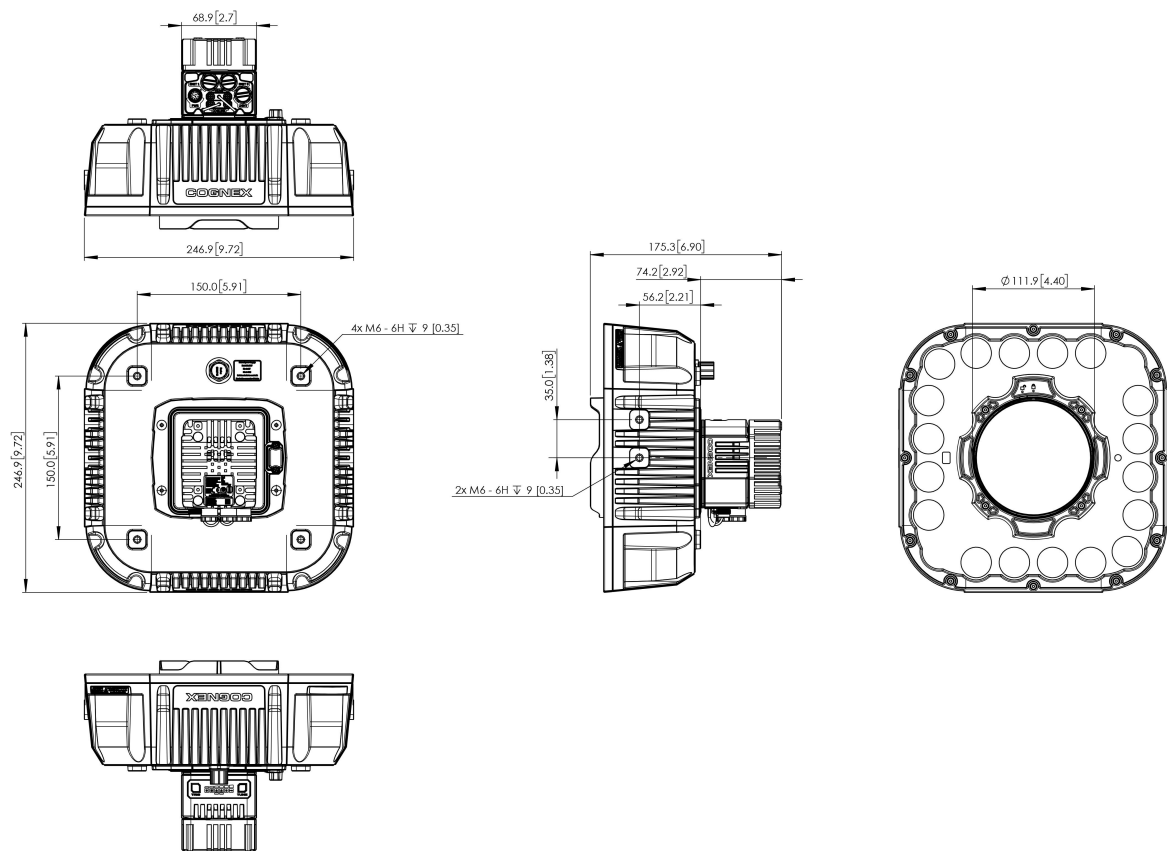


- Dimensions are in millimeters and are for reference purposes only.
- All specifications are for reference purposes only and can change without notice.

SLX-3816 Reader Only



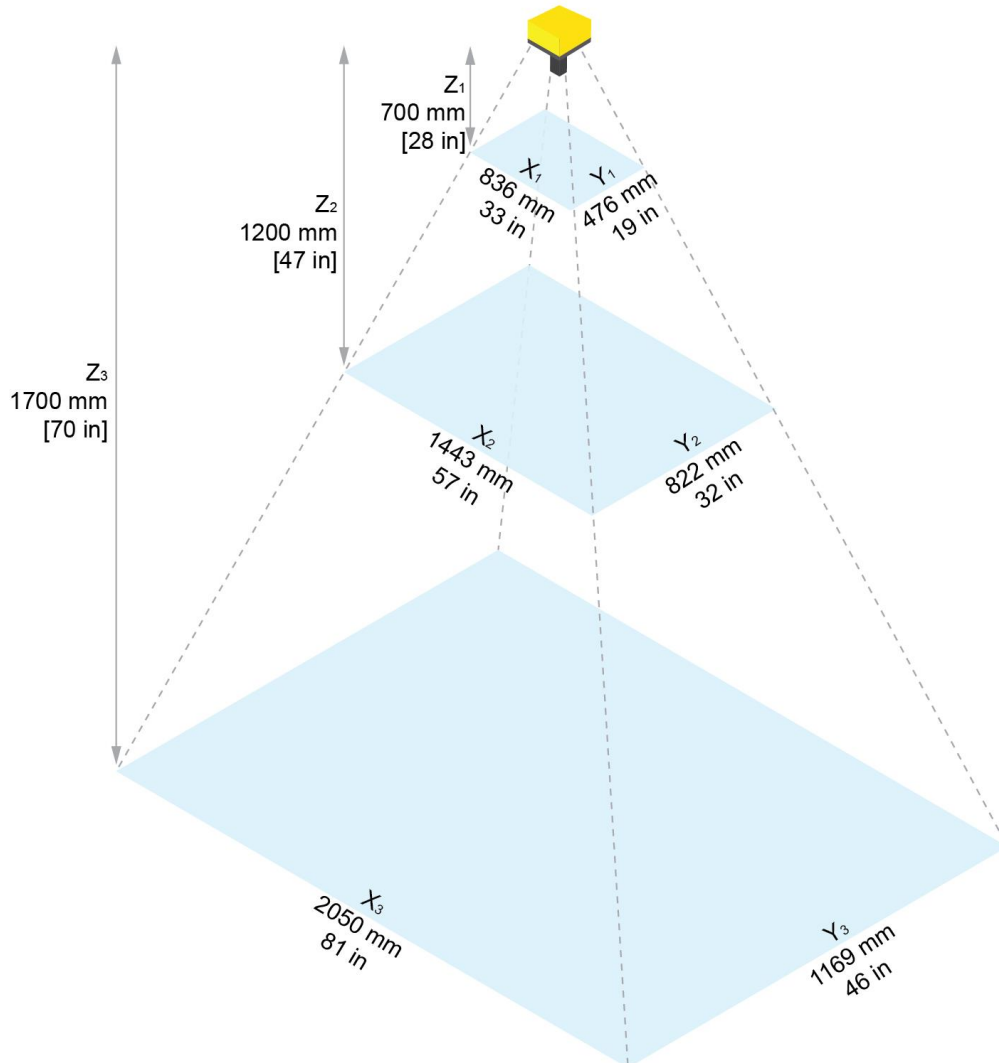
SLX-3816 with HPIT



Field of View and Distance

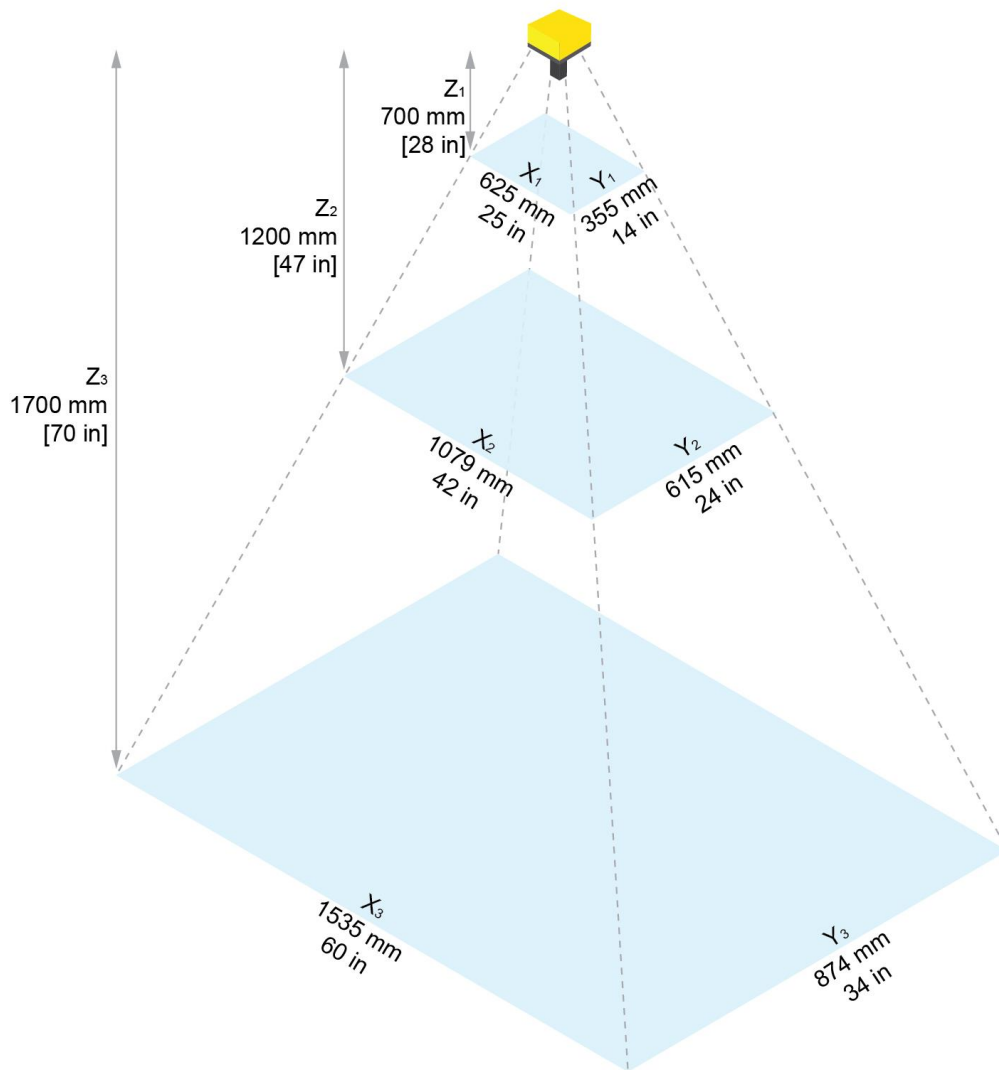
This section provides the Field of View values for 12 mm and 16 mm lenses.

12 mm Focal Length



Working Distance in mm	Horizontal Values in mm	Vertical Values in mm
700 [28 in]	836 mm [33 in]	476 mm [19 in]
1200 [47 in]	1443 mm [57 in]	822 mm [32 in]
1700 [70 in]	2050 mm [81 in]	1169 mm [46 in]

16 mm Focal Length



Working Distance in mm	Horizontal Values in mm	Vertical Values in mm
700 mm [28 in]	625 mm [25 in]	355 mm [14 in]
1200 mm [47 in]	1079 mm [42 in]	615 mm [24 in]
1700 mm [70 in]	1535 mm [60 in]	874 [34 in]

Accessories and Illumination Options

The following sections provide details about the accessories and illumination options of the device.

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

Lenses

The following table shows the available lenses you can purchase:

Accessory	Product Number	Illustration
16 mm f6.5 Cognex High-Res - Visible Light Only	CLN-C16F06-UR	
12 mm Variable Aperture Moritex SR Series	ML-U1217SR-18C	

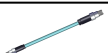
Mounting Brackets

The following table shows the available mounting bracket you can purchase:

Accessory	Product Number	Illustration
U-shaped mounting bracket for use with HPIT	DMBK-PVT-HPIT-380	

Cables

Note: Cables are sold separately.

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)	
Ethernet Cable, Robotic X-Coded M12-8 to RJ-45	CCB-84901-2RBT-xx (straight, xx specifies length: 2m, 5m, 10m)	
X-Coded to A-Coded Ethernet cable adapter, 0.5 m	CCB-M12X8MS-XCAC	
Power and I/O Breakout Cable, M12-12 to Flying Lead	CCB-M12x12Fy-05 (y = straight/angled, xx specifies length)	
Power and I/O Breakout Cable, M12-12 to Flying Lead	CCBL-05-01	

Accessory	Product Number	Illustration
Power and I/O Breakout Cable, M12-12 to Flying Lead	CCB-PWRIO- xx (straight, xx specifies length: 5m, 10m, 15m)	
Power and I/O Breakout Cable, M12-12 to Flying Lead	CCB-PWRIO-xxR (right-angled, xx specifies length: 5m, 10m, 15m)	
Power and I/O Breakout Cable, M12-12 to DB15	CCB-PWRIO-MOD-xx (xx specifies length: 2m, 5m)	
USB Type C Cable to USB Type A, Straight, 2.5 m	DMA-STCBLE-IP65-25	
USB Type C Cable to USB Type A, Angled, 2.5 m	DMA-RTCBLE-IP65-25	
External Light Cable, Yellow	IVSL-5PM12-J300 IVSL-5PM12-J500 IVSL-5PM12-J1000 IVSL-5PM12-J2000	
Note: This cable supports intensity control.		
External Light Cable, Black	IVSL-M12-NSB-300 IVSL-M12-NSB-1000 IVSL-M12-NSB-2000	
Note: This cable supports intensity control and is used with standard SVL lights.		
Power chain L-coded (length: 2 m, 5 m)	CCB-CIO-P4141-200 CCB-CIO-P4141-500	
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	
External/Light Cable (length: 2 m, 5 m)	CCB-CIO-40021-200 CCB-CIO-40021-500	
Primary Cable 12-pin (length: 2 m)	CCB-CIO-53001-200	
Shielded Secondary Cable 4-pin (length: 2 m, 5 m, 10 m)	CCB-CIO-40507-200 CCB-CIO-40507-500 CCB-CIO-40507-1000	
Laptop Power Supply, 110 V AC to 24 V	DMA-PS-110VAC-24DC	
Murr, M12 Cable T-Splitter	CCB-CIO-42751-000	
Input W Cable, Single Device, 3m	CCB-CIO-FLEX-IN-3	

Accessory	Product Number	Illustration
Ethernet Chain X-coded (length: 1 m, 2 m, 5 m, 10 m)	CCB-CIO-51001-100	
	CB-CIO-51001-200	
	CCB-CIO-51001-500	
	CCB-CIO-51001-1000	

Integrated Lights and Accessories

The following table shows the available integrated light you can purchase:

Accessory	Illustration
High-Powered Integrated Torch (HPIT), white, clear Accessory Model 50190 Please contact Cognex sales for more details.	

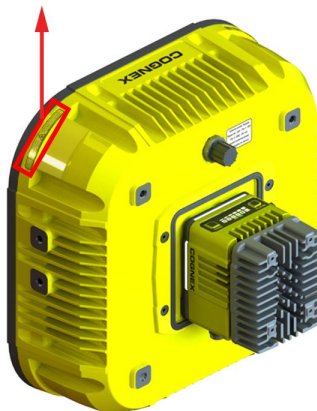
WARNING: High-Powered Integrated Torch devices equipped with a Time-of-Flight sensor, the device has been tested to be under the limits of a Class 1 Laser device.



CAUTION: High-Powered Integrated Torch devices equipped with a target aimer have been tested in accordance with IEC 60825-1, 3rd ed. 2014, and have been certified to be under the limits of a Class 2 Laser device.

LASER LIGHT - DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT 515nm<1mW
CLASSIFIED PER IEC 60825-1, Ed 3, 2014

Complies with 21 CFR 1040.10 & 1040.11 except
for conformance with IEC 60825-1 Ed. 3, as
described in Laser Notice No. 56, May 8, 2019



Power, I/O, and Connectivity

Note:

Keep the following in mind:



- Cables are sold separately.
- 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-8A-78-L	
Master Breakout Board PNP	CIO-MB-PNP	
Power Distribution Board (PDB)	CIO-PD-4	
Hybrid Switch (HS)	CIO-HS-4	
Power Breakout Box (PB)	CIO-PB-4	

Hardware Specifications

The following sections provide details about the hardware specifications of the device.

Hardware Specifications

The following sections list general specifications for the device.

SLX-3816 Device

Specification	SLX-3816
Lens Type	C-Mount lens or Cognex High Speed Liquid Lens
Trigger	1 opto-isolated, acquisition trigger input.
Discrete Inputs	1 opto-isolated, acquisition trigger input. Up to 3 general-purpose inputs when connected to the Breakout cable. $V_{IL}: \leq \pm 6 \text{ V}$ $V_{IH}: \geq \pm 12 \text{ V}$ $I_{TYP}: 4.2 \text{ mA @ } 24 \text{ V}$
Discrete Outputs	Up to 4 outputs when connected to the Breakout cable. $I_{MAX}: 50 \text{ mA}$ $V_{OL}: \leq \pm 3 \text{ V @ } 50 \text{ mA}$
Status LEDs	Pass/Fail LED and Indicator Ring, Network LED, and Error LED.
Codes	1-D barcodes: Codabar, Code 39, Code 128, Code 93, Code 25, Interleaved 2 of 5, UPC/EAN/JAN 2-D barcodes: Data Matrix (ECC 0, 50, 80, 100, 140, and 200), QR Code, PDF 417, MaxiCode, AztecCode
Vision Tools	PinPoint
Network Communication	2 Ethernet ports, 10/100/1000 BaseT with auto MDIX. IEEE 802.3 TCP/IP Protocol. Supports DHCP, static, and link-local IP address configuration. One port supports TSN networks. RS-232: Rx/D, Tx/D according to TIA/EIA-232-F
Power Consumption	24 V DC +/- 10% LPS or NEC class 2 Power consumption without USB device attached: - Average $\leq 15 \text{ W}$ without illumination - Average $\leq 40 \text{ W}$ with illumination - Peak $\leq 2 \text{ A}$
Power Output	24 V DC at 1.0 A maximum to external light.
Material	Die-cast and extruded aluminum and zinc housing.
Finish	Painted.
Mounting	Four M3 threaded mounting holes. See Mounting Brackets on page 40 for supported mounts. Pattern: 38.5 × 58.5 mm (1.52 × 2.60 in)

Specification	SLX-3816
Weight	SLX-3816 with no accessories attached: 775 g (27.3 oz).
Operational Temperature	0° C to 40° C (32° F to 104° F)
Storage Temperature	-20° C to 80° C (-4° F to 176° F)
Humidity	< 95% non-condensing
Protection	IP67, altitude: 2000 m, indoor use only, pollution degree II Note: IP67 rating applies only if all blind plugs and cables are attached properly, or the provided connector plug is installed. Also, make sure that the IP67-rated cover is installed properly.
Shock (Shipping and Storage)	IEC 60068-2-27 - 500 shocks in each polarity of each (X, Y, and Z) axis, 3000 shocks total, semi-sinusoidal, 11 g, 10 ms
Vibration (Shipping and Storage)	IEC 60068-2-6: vibration test in each of the three main axis for 2 hours at 10 Gs (10 to 500 Hz at 100 m/s ² / 15 mm) with cables or cable plugs and a 150 gram or lighter lens attached.
Regulations/Conformity	CE, FCC, KCC, TÜV SÜD NRTL, EU RoHS, China RoHS

SLX-3816 Series Device Image Sensor

Specification	SLX-3816
Sensor Type	1.1-inch CMOS
Image Sensor Properties	Diagonal size: 16.8 mm Pixel size: 2.74 µm (H) x 2.74 µm (V)
Maximum Image Resolution (pixels)	5320 x 3032 (16.13 mp)
Electronic Shutter Speed	Minimum exposure: 15 µs Maximum exposure: 200 ms

LED Wavelengths

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

Model	LED	Wavelength
SLX-3816 with HPIT	White	Cx 0.321, Cy 0.327 acc. to CIE 1931 (WHITE)

Illumination Options

The following table shows the available illumination options:

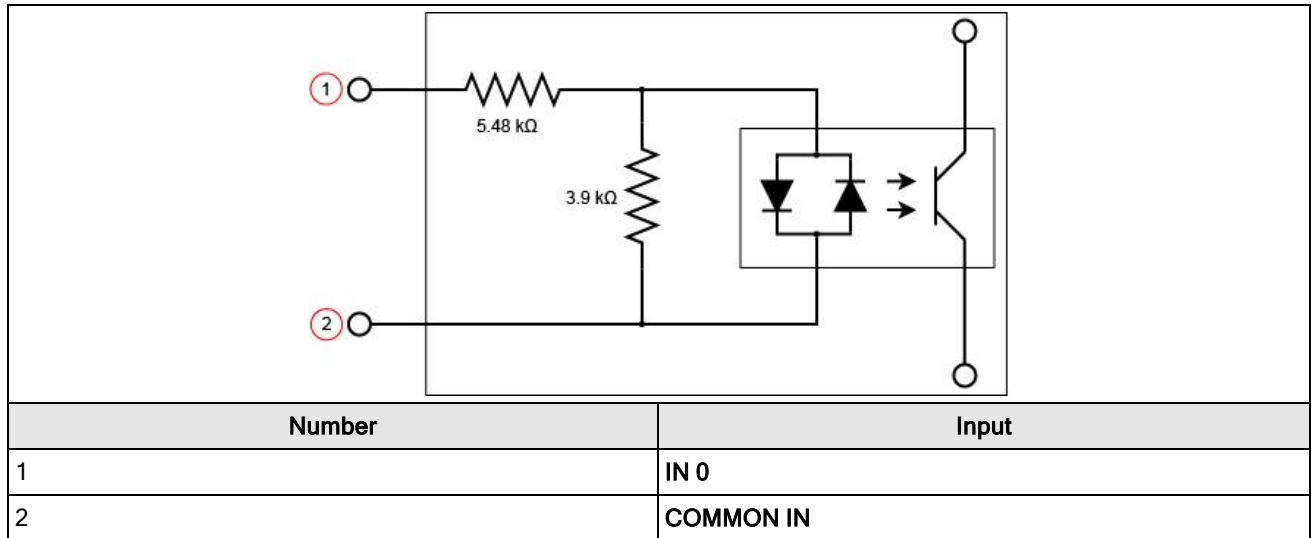
LED Type	Power	Maximum Exposure Time	Maximum High-Frequency Illumination Time
 HPIT White	Internal	4 ms	75 µs
	External	4 ms	200 µs

For more information on how HPIT power options, see [Powering the Integrated Illumination on page 17](#).

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.

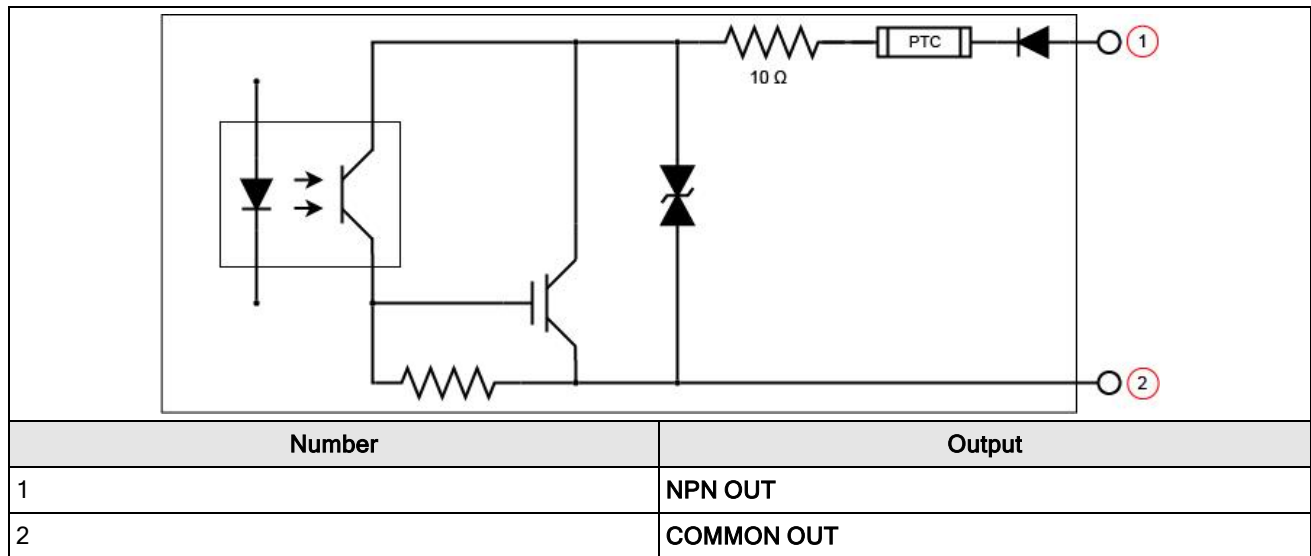
- To trigger from an NPN type photoelectric sensor or PLC output, connect COMMON IN to +24 V DC and connect IN 0 to the output of the photoelectric sensor. When the output turns ON, it pulls TRIGGER down to 0 V DC, turning the opto-coupler ON.
- To trigger from a PNP photoelectric sensor or PLC output,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



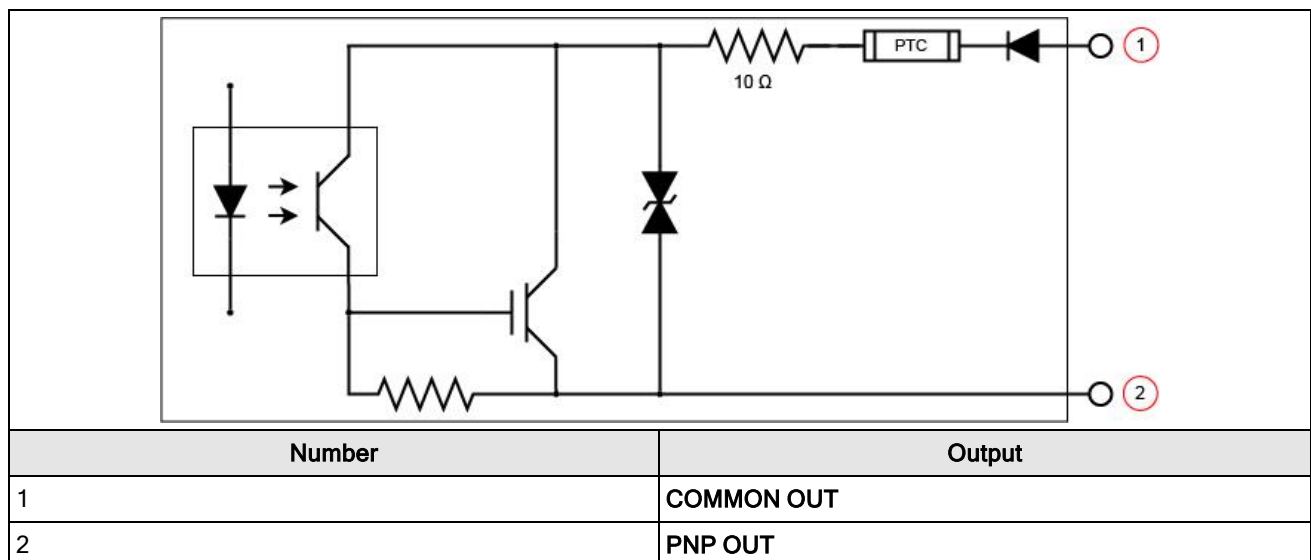
High-Speed Outputs

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, the external load should be connected 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.

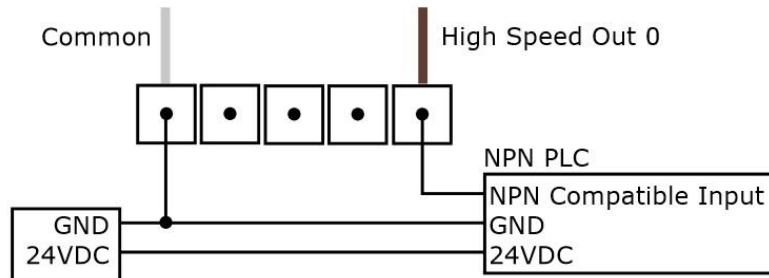


For PNP lines, connect the external load between the output and the negative supply voltage (0 V DC). When connected to a 24 V DC power supply, the output pulls up greater than 21 V DC when ON, and current flows through the load. When the output is OFF, no current flows through the load.

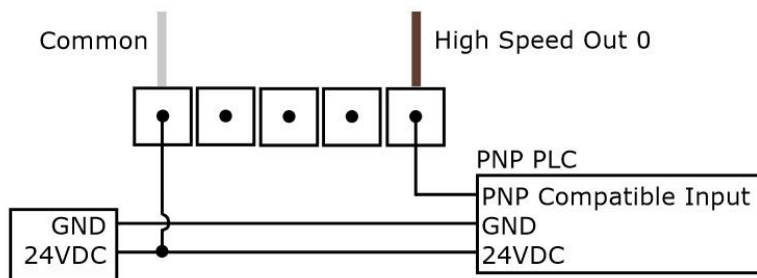


High Speed Output Wiring

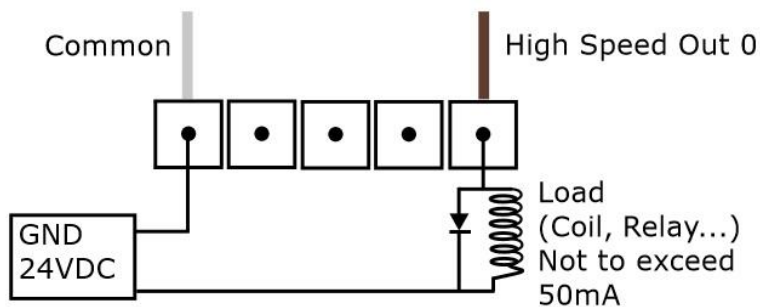
To connect to an NPN-compatible PLC input, connect one of the device's high-speed outputs directly to the PLC input. When enabled, the output pulls the PLC input down to less than 3 V DC.



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.

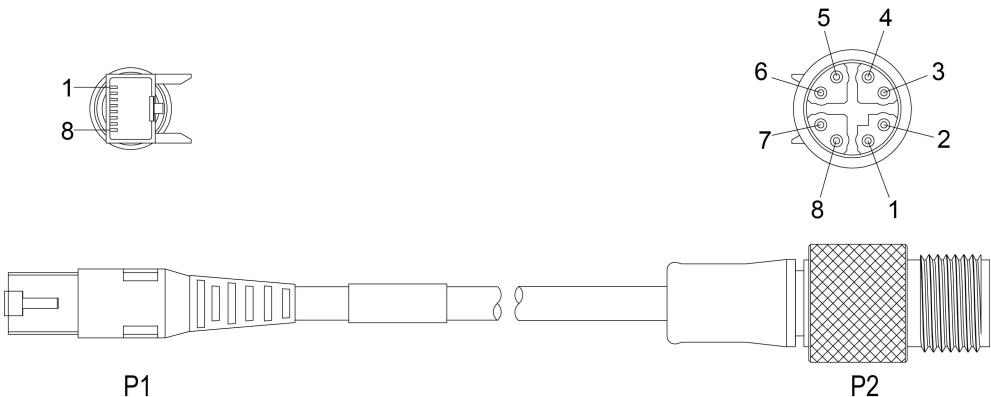


To connect the high-speed outputs to a relay, LED, or similar load, connect the negative side of the load to the output and the positive side to +24V DC. When the output switches on, the negative side of the load is pulled down to less than 3 V DC, and 21 V DC appears across the load. Use a protection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



Ethernet Cable

The Ethernet cable provides Ethernet connectivity to the device. The Ethernet cable is used to connect the device to other network devices.



P1 Pin Number	Wire Color	Signal Name	P2 Pin Number
1	White/Orange	TxRx A +	1
2	Orange	TxRx A -	2
3	White/Green	TxRx B +	3
4	Blue	TxRx C +	8
5	White/Blue	TxRx C -	7
6	Green	TxRx B -	4
7	White/Brown	TxRx D +	5
8	Brown	TxRx D -	6

CAUTION: The Ethernet cable shield must be grounded at the far end. Only plug cables into a grounded Ethernet connector. Use a digital voltmeter to validate the grounding. If the far end device is not grounded, add a ground wire in compliance with local electrical codes.

Note:

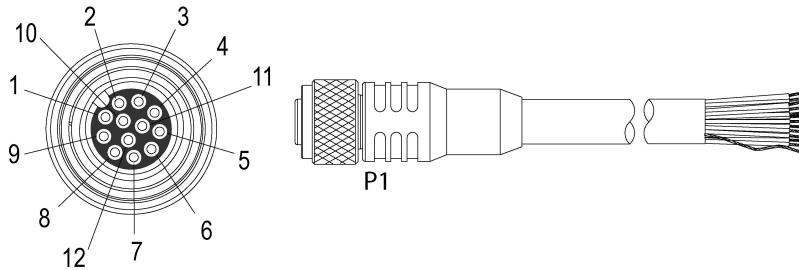


- Cables are sold separately.
- The wiring for this cable follows standard industrial Ethernet M12 specifications. It differs from the 568B standard.

Breakout Cable

The Breakout cable provides connections to an external power supply, the acquisition trigger input, general-purpose inputs, high-speed outputs, and RS-232 serial communications. The Breakout cable is not terminated.

The Breakout cable can connect to devices, such as a trigger sensor or strobe light. The Breakout cable is not terminated.



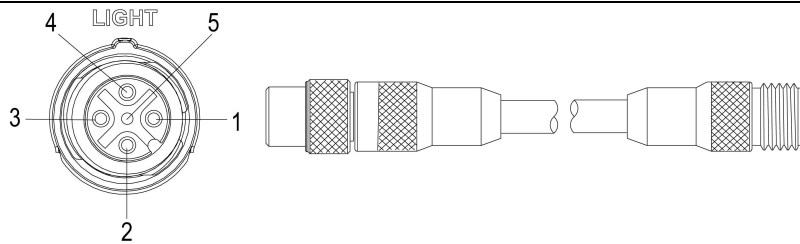
Pin#	Signal Names	Wire Color
1	IN 2 / HSOUT 2	Yellow
2	RS-232 TRANSMIT	White/Yellow
3	RS-232 RECEIVE	Brown
4	IN 3 / HSOUT 3	White/Brown
5	IN 1	Violet
6	COMMON IN	White/Violet
7	+24VDC	Red
8	GND	Black
9	COMMON OUT	Green
10	TRIGGER	Orange
11	HSOUT 0	Blue
12	HSOUT 1	Grey

Note:

- Cables are sold separately.
- Perform wiring or adjustments to I/O devices when the device is not receiving power.
- You can cut exposed wires short or trim wire ends. You also can tie the wires back if you use a tie made of non-conductive material. Keep bare wires separated from the +24 V DC wire.
- When using the 15 meter Breakout cable, full 24 V DC voltage must be maintained at the input leads of the Breakout cable when the device is operating.

External Light Connector

The LIGHT connector of the device is used to connect the External Light cable to an external lighting device, providing power and strobe control. You can connect the External Light cable to either a continuous or strobed lighting device. Before using an external lighting device, you must configure the light settings in DataMan Setup Tool.



Pin#	Signal Name	Wire Color
1	+24 V DC	Brown
2	Intensity Control	White
3	GND	Blue
4	Strobe	Black
5	Chassis	Not Connected

Note:

- Cables are sold separately.
- Current load: 1 A maximum, 750 mA average.
- Intensity Control is an analog signal that ranges from 0 to +10 V DC, and is configurable within DataMan Setup Tool. It is a control signal only, and must not be used to power an external device. Power must be sourced from +24 V DC and GND. Verify the External Light cable and light support intensity control.
- The Strobe output is active low 0 V DC and active high +12 V DC, with the Polarity configurable within DataMan Setup Tool. It is a control signal only and cannot be used for power. Power must be sourced from +24 V DC and GND.

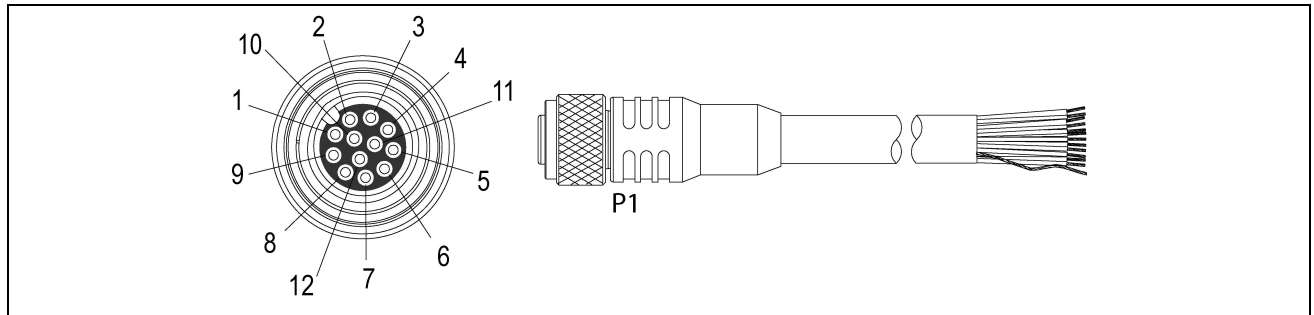


CAUTION: Do not use the LIGHT connector to power the integrated light externally.

CCB-M12x12Fy-xx

The Power and I/O Breakout cable provides access to trigger and high-speed outputs. For RS-232, use the Power Supply return path for ground.

The figure on the left shows the plug on the device.



Pin#	Signal Names	Wire Color
1	Out 2/In 2	White
2	TxD	Green
3	RxD	Pink
4	Out 3/In 3	Yellow
5	In 1	Grey
6	Common In	Black
7	+24 VDC	Brown
8	GND	Blue
9	Common Out	Purple
10	In 0	Red
11	Out 0	Grey/Pink
12	Out 1	Red/Blue

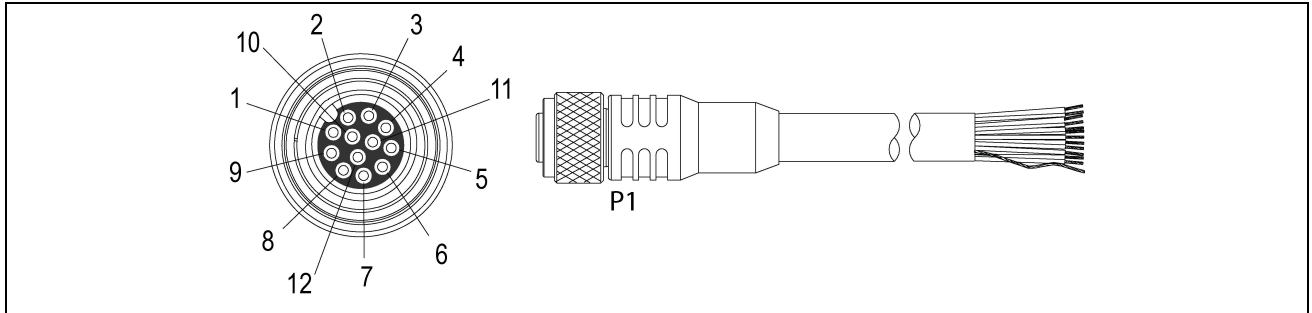
Note:

- Cables are sold separately.
- Perform wiring or adjustments to I/O devices when the device is not receiving power.
- You can cut exposed wires short or trim wire ends. You also can tie the wires back if you use a tie made of non-conductive material. Keep bare wires separated from the +24 V DC wire.

CCBL-05-01

The Power and I/O Breakout cable provides access to trigger and high-speed outputs. For RS-232, use the Power Supply return path for ground.

The figure on the left shows the plug on the device.



Pin#	Signal Names	Wire Color
1	Out 2/In 2	Yellow
2	TxD	White/Yellow
3	RxD	Brown
4	Out 3/In 3	White/Brown
5	In 1	Violet
6	Common In	White/Violet
7	+24 VDC	Red
8	GND	Black
9	Common Out	Green
10	In 0	Orange
11	Out 0	Blue
12	Out 1	Grey

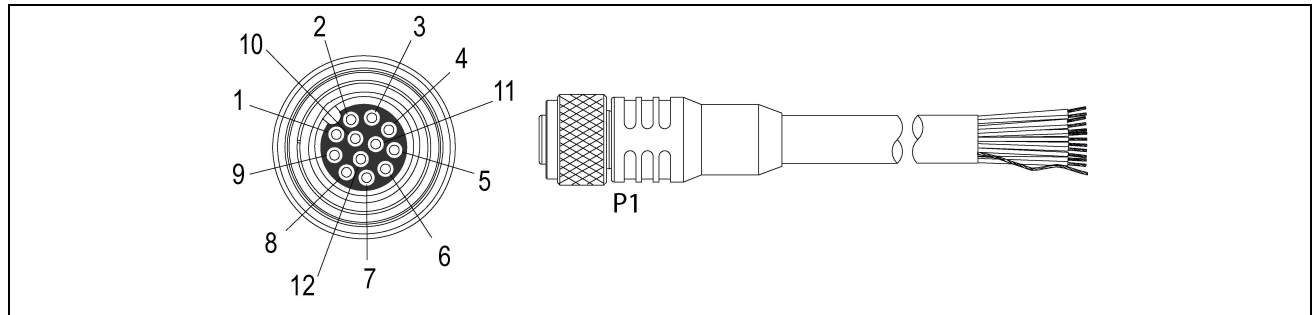
Note:

- Cables are sold separately.
- Perform wiring or adjustments to I/O devices when the device is not receiving power.
- You can cut exposed wires short or trim wire ends. You also can tie the wires back if you use a tie made of non-conductive material. Keep bare wires separated from the +24 V DC wire.

CCB-PWRIO-05

The Power and I/O Breakout cable provides access to trigger and high-speed outputs. For RS-232, use the Power Supply return path for ground.

The figure on the left shows the plug on the device.



Pin#	Signal Names	Wire Color
1	Out 2/In 2	Yellow
2	TxD	White/Yellow
3	RxD	Brown
4	Out 3/In 3	White/Brown
5	In 1	Violet
6	Common In	White/Violet
7	+24 VDC	Red
8	GND	Black
9	Common Out	Green
10	In 0	Orange
11	Out 0	Blue
12	Out 1	Grey

Note:

- Cables are sold separately.
- Perform wiring or adjustments to I/O devices when the device is not receiving power.
- You can cut exposed wires short or trim wire ends. You also can tie the wires back if you use a tie made of non-conductive material. Keep bare wires separated from the +24 V DC wire.

Cleaning and Maintenance

The following sections provide details about the cleaning and maintenance of the device.

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 and Supporting Documentation

The following sections provide details about the regulations and conformity of the device and the supporting documentation.

Regulations and Conformity

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

SLX-3816 devices have Regulatory Model number 50103 and meet or exceed 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-3816: Regulatory Model 50103 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 	This device is certified for office use only and if used at home, there can be frequency interference problems. A급 기기(업무용 방송통신기자재): 이 기기는 업무용(A급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라 며, 가정외의 지역에서 사용하는 것을 목적으로 합니다. SLX-3816: Regulatory Model 50103
TÜV	SLX-3816: Regulatory Model 50103
	NRTL: TÜV SÜD SCC/NRTL OSHA Scheme for UL/CAN 61010-1.
	CB report available upon request. TÜV SÜD, IEC/EN 61010-1.
UK CA 	SLX-3816: Regulatory Model 50103 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 50103	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.

Supporting Documentation

This document provides basic information about the SLX-3816 series devices. Additional information is available through the Windows **Start** menu or the DataMan Setup Tool **Help** menu after you install the DataMan Setup Tool software on your PC.

Note: For the latest documentation, visit: support.cognex.com/documentation/dataman.

- The **DataMan Communications and Programming Guide** shows you how to integrate your SLX device into your particular automation and factory environment.
Cognex > DataMan Software Revision: x.x.x> Documentation > Communications > DataMan Communications and Programming Guide
- The **DataMan Industrial Protocols Manual** provides information on how to integrate SLX devices into your particular environment using industrial protocols.
Cognex > DataMan Software Revision: x.x.x> Documentation > Communications > DataMan Industrial Protocols Manual
- The **DataMan Control Commands** lists DataMan Control Commands with all relevant information. You can view this help inside the DataMan Setup Tool or as a stand-alone help file.
Cognex > DataMan Software Revision: x.x.x > Documentation > English > DataMan Control Commands
- The **Setup Tool Reference Manual** describes the user interface of the DataMan Setup Tool software.
Cognex > DataMan Software Revision: x.x.x> Documentation > English > Setup Tool Reference Manual
- The **Release Notes** list detailed system requirements and additional information about the DataMan software release.
Cognex > DataMan Software Revision: x.x.x > Documentation > DataMan Revision: x.x.x > Release Notes

