



Allen-Bradley 1734-4IOL 4 Channel IO Link Master Module Installation Guide

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Allen-Bradley 1734-4IOL 4 Channel IO Link Master Module

INSTALLATION GUIDE

POINT I/O 4 Channel IO-Link Master Module

Catalog Numbers 1734-4IOL, 1734-4IOLK, Series B

Catalog numbers with the suffix 'K' are conformal coated and their specifications are the same as non-conformal coated catalogs.

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Summary of Changes

This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.

| Topic | Page |
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| Updated UK and European Hazardous Location Approval | 3 |
| Added IEC Hazardous Location Approval | 4 |
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| Updated back cover | back cover |

POINT I/O 4 Channel IO-Link Master Module Installation Instructions



ATTENTION: Read this document and the documents listed in the Additional Resources section about installation, configuration and operation of this equipment before you install, configure, operate or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice. If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

Environment and Enclosure



ATTENTION: This equipment is intended for use in a Pollution Degree 2 industrial environment, in overvoltage Category II applications (as defined in EN/IEC 60664-1), at altitudes up to 2000 m (6562 ft) without derating.

This equipment is not intended for use in residential environments and may not provide adequate protection to radio communication services in such environments.

This equipment is supplied as open-type equipment for indoor use. It must be mounted within an enclosure that is suitably designed for those specific environmental conditions that will be present and appropriately designed to prevent personal injury resulting from accessibility to live parts. The enclosure must have suitable flame-retardant properties to prevent or minimize the spread of flame, complying with a flame spread rating of 5VA or be approved for the application if nonmetallic. The interior of the enclosure must be accessible only by the use of a tool. Subsequent sections of this publication may contain more information regarding specific enclosure type ratings that are required to comply with certain product safety certifications.

In addition to this publication, see the following:

- Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1, for additional installation requirements.
- NEMA Standard 250 and EN/IEC 60529, as applicable, for explanations of the degrees of protection provided by enclosures.



ATTENTION: Read this document and the documents listed in the Additional Resources section about installation, configuration, and operation of this equipment before you install, configure, operate, or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

Installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice. In case of malfunction or damage, no attempts at repair should be made. The module should be returned to the manufacturer for repair. Do not dismantle the module.

North American Hazardous Location Approval

The Following Information Applies When Operating This Equipment In Hazardous Locations.

Products marked “CL I, DIV 2, GP A, B, C, D” are suitable for use in Class I Division 2 Groups A, B, C, D,

Hazardous Locations and nonhazardous locations only. Each product is supplied with markings on the rating nameplate indicating the hazardous location temperature code. When combining products within a system, the most adverse temperature code (lowest “T” number) may be used to help determine the overall temperature code of the system. Combinations of equipment in your system are subject to investigation by the local Authority Having Jurisdiction at the time of installation.



WARNING: Explosion Hazard –

- Do not disconnect equipment unless power has been removed or the area is known to be nonhazardous.
- Do not disconnect connections to this equipment unless power has been removed or the area is known to be nonhazardous. Secure any external connections that mate to this equipment by using screws, sliding latches, threaded connectors, or other means provided with this product.
- Substitution of components may impair suitability for Class I, Division 2.

UK and European Hazardous Location Approval

The following applies to products marked

- Are intended for use in potentially explosive atmospheres as defined by European Union Directive 2014/34/EU and has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of Category 3 equipment intended for use in Zone 2 potentially explosive atmospheres, given in Annex II to this Directive.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018 and EN IEC 60079-7:2015/A1:2018.
- Are Equipment Group II, Equipment Category 3, and comply with the Essential Health and Safety Requirements relating to the design and construction of such equipment given in Annex II to EU Directive 2014/34/EU. See the EU Declaration of Conformity rok.auto/certifications for details.
- The type of protection is Ex ec IIC T4 Gc according to EN IEC 60079-0:2018, EXPLOSIVE ATMOSPHERES – PART 0: EQUIPMENT – GENERAL REQUIREMENTS, Issue Date 07/2018 and EN IEC 60079-7:2015+A1:2018, Explosive atmospheres. Equipment protection by increased safety “e”.
- Comply to Standard EN IEC 60079-0:2018, EXPLOSIVE ATMOSPHERES – PART 0: EQUIPMENT – GENERAL REQUIREMENTS, Issue Date 07/2018, EN IEC 60079- 7:2015+A1:2018 Explosive atmospheres. Equipment protection by increased safety “e”, reference certificate number DEMKO 04 ATEX 0330347X and UL22UKEX2478X.
- Are intended for use in areas in which explosive atmospheres caused by gases, vapors, mists, or air are unlikely to occur, or are likely to occur only infrequently and for short periods. Such locations correspond to Zone 2 classification according to UKEX regulation 2016 No. 1107 and ATEX directive 2014/34/EU.
- May have catalog numbers followed by a “K” to indicate a conformal coating option.

IEC Hazardous Location Approval

The following applies to products marked with IECEx certification:

- Are intended for use in areas in which explosive atmospheres caused by gases, vapors, mists, or air are unlikely to occur, or are likely to occur only infrequently and for short periods. Such locations correspond to Zone 2 classification to IEC 60079-0.
- The type of protection is Ex ec IIC T4 Gc according to IEC 60079-0 and IEC 60079-7.
- Comply with Standards IEC 60079-0, Explosive atmospheres – Part 0: Equipment – General requirements, Edition 7, Revision Date 2017 and IEC 60079-7, 5.1 Edition revision date 2017, Explosive atmospheres – Part 7: Equipment protection by increased safety “e”, reference IECEx certificate number IECEx UL 20.0072X.
- May have catalog numbers followed by a “K” to indicate a conformal coating option.

Special Conditions for Safe Use

WARNING:

- This equipment is not resistant to sunlight or other sources of UV radiation.
- This equipment shall be mounted in an UKEX/ATEX/IECEx Zone 2 certified enclosure with a minimum ingress protection rating of at least IP54 (in accordance with EN/IEC 60079-0) and used in an environment of not more than Pollution Degree 2 (as defined in EN/IEC 60664-1) when applied in Zone 2 environments. The enclosure must be accessible only by the use of a tool.
- This equipment shall be used within its specified ratings defined by Rockwell Automation®.
- Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment.
- Earthing is accomplished through mounting of modules on rail.
- The instructions in the user manual shall be observed.
- This equipment must be used only with UKEX/ATEX/IECEx certified Rockwell Automation backplanes.
- Secure any external connections that mate to this equipment by using screws, sliding latches, threaded connectors, or other means provided with this product.
- Do not disconnect equipment unless power has been removed or the area is known to be nonhazardous. Earthing is accomplished through mounting of modules on rail.
- Devices shall be used in an environment of not more than Pollution Degree 2.

Prevent Electrostatic Discharge

ATTENTION: This equipment is sensitive to electrostatic discharge, which can cause internal damage and affect normal operation. Follow these guidelines when you handle this equipment:

- Touch a grounded object to discharge potential static.
- Wear an approved grounding wriststrap.
- Do not touch connectors or pins on component boards.
- Do not touch circuit components inside the equipment.
- Use a static-safe workstation, if available.
- Store the equipment in appropriate static-safe packaging when not in use.

About the Module

The POINT I/O™ 4 channel IO-Link master module provides four channels that can be individually configured as IO-Link master or as a standard digital I/O module. The IO-Link channel master module can be configured to fit any IO-Link and/or discrete application.

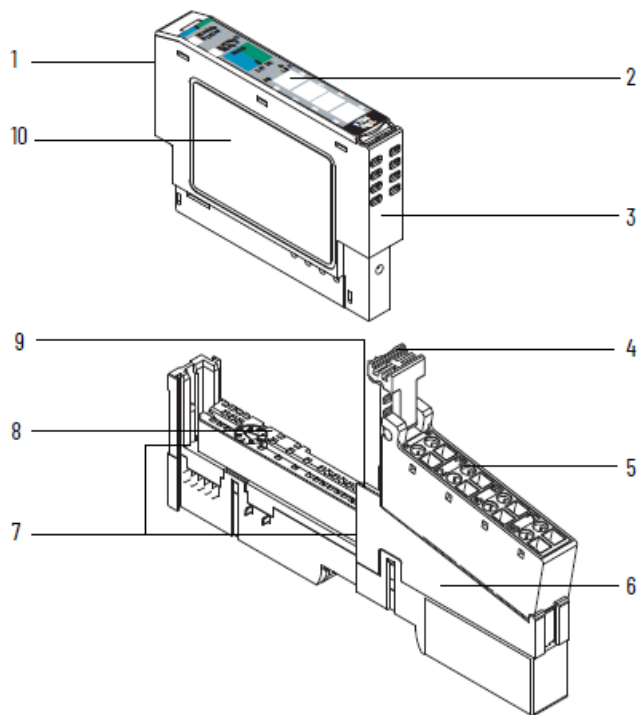
In IO-Link mode, the module supports four channels for IO-Link master communication with IO-Link compatible devices. In standard digital I/O mode, the module supports four channels of digital input or output. Standard digital input channels support IEC61131-2 type 1 input. Channels can also be disabled if not in use.

You must use this module with the following:

- 1734-AENT or 1734-AENTR, Series B EtherNet/IP™ adapters with firmware revision 5.012 or later
- 1734-AENT or 1734-AENTR, Series C EtherNet/IP adapters with firmware revision 6.011 or later
- Studio 5000 Logix Designer® application, version 20 or later

Use the following diagrams and tables to identify the external features of the module.

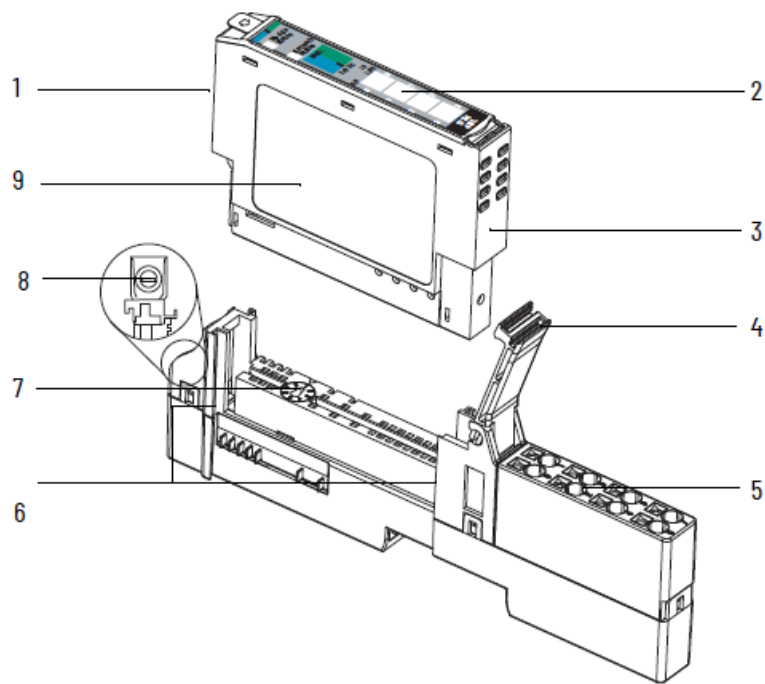
POINT I/O 4 Channel IO-Link Master Module with 1734-TB, 1734-TBS, 1734-TB3, or 1734-TB3S Wiring Base Assembly



The 1734-TB, 1734-TBS, 1734-TB3, or 1734-TB3S wiring base assembly consists of a 1734-MB mounting base and a 1734-RTB or 1734-RTBS removable terminal block.

| | Description | | Description |
|---|---------------------------------------|----|---------------------------------|
| 1 | Module locking mechanism | 6 | Terminal base |
| 2 | Slide-in writable label | 7 | Interlocking side pieces |
| 3 | Insertable I/O module | 8 | Mechanical keying (orange) |
| 4 | Removable terminal block (RTB) handle | 9 | DIN rail locking screw (orange) |
| 5 | Removable terminal block | 10 | Module wiring diagram |

POINT I/O 4 Channel IO-Link Master Module with 1734-TOP, 1734-TOPS, 1734-TOP3, or 1734-TOP3S One-piece Terminal Base

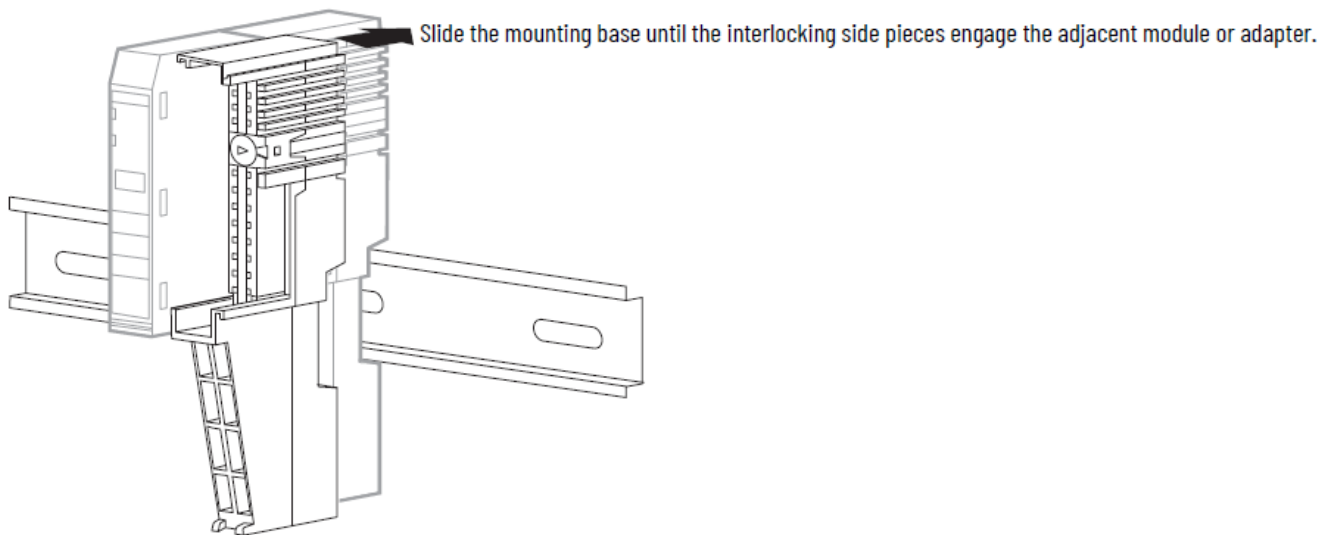


| | Description | | Description |
|---|--------------------------|---|---------------------------------|
| 1 | Module locking mechanism | 6 | Interlocking side pieces |
| 2 | Slide-in writable label | 7 | Mechanical keying (orange) |
| 3 | Insertable I/O module | 8 | DIN rail locking screw (orange) |
| 4 | Terminal block handle | 9 | Module wiring diagram |
| 5 | One-piece terminal base | | |

Install the Mounting Base

To install the mounting base on the DIN rail, proceed as follows:

1. Position the mounting base vertically above the installed units (adapter, power supply, or existing module).

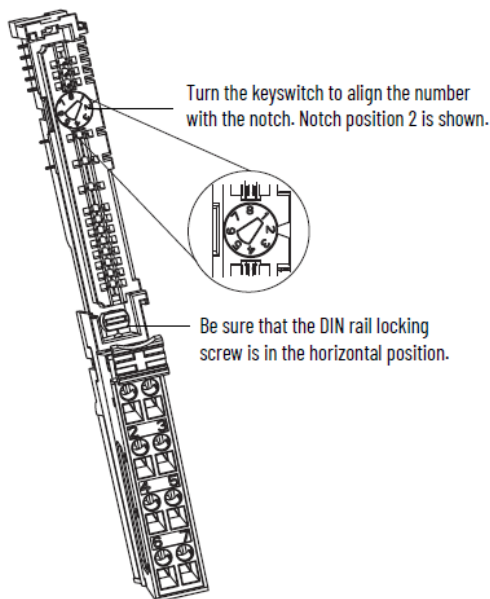


2. Slide the mounting base down allowing the interlocking side pieces to engage the adjacent module or adapter.
3. Press firmly to seat the mounting base on the DIN rail. The mounting base snaps into place. Be sure that the orange DIN rail locking screw is in the horizontal position and that it has engaged the DIN rail.

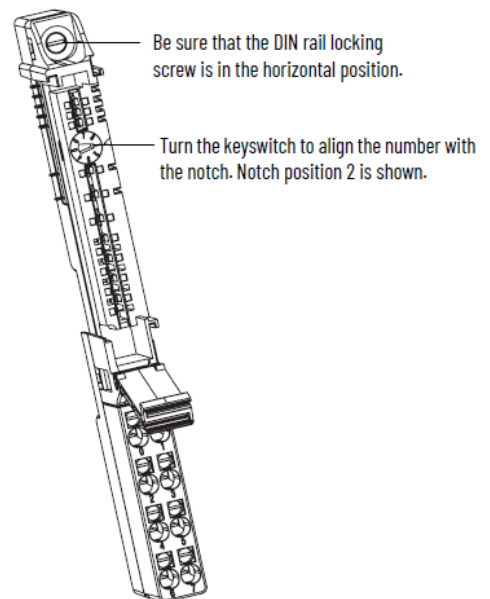
Install the Module

The module can be installed before or after base installation. Make sure that the mounting base is correctly keyed before installing the module into the mounting base. In addition, make sure that the mounting base locking screw is positioned horizontal referenced to the base.

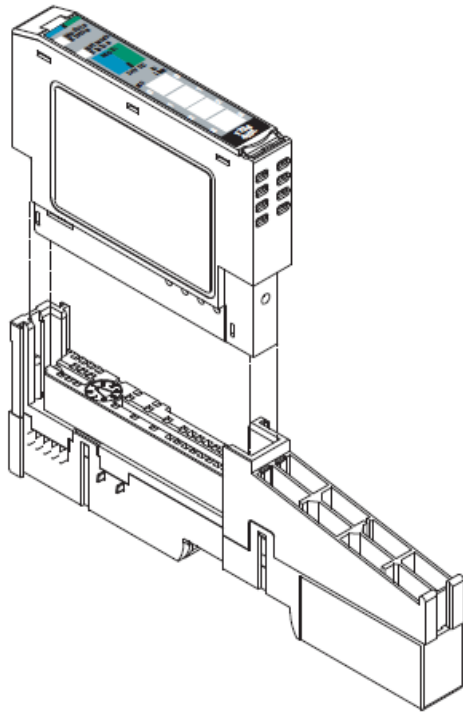
1734-TB Base



1734-TOP Base



1. Use a bladed screwdriver and rotate the keyswitch on the mounting base clockwise until the number required for the type of module being installed aligns with the notch in the base.
2. Verify that the DIN rail locking screw is in the horizontal position. You cannot insert the module if the locking mechanism is unlocked.
3. Insert the module straight down into the mounting base.
4. Press to secure. The module locks into place.



Install the Removable Terminal Block

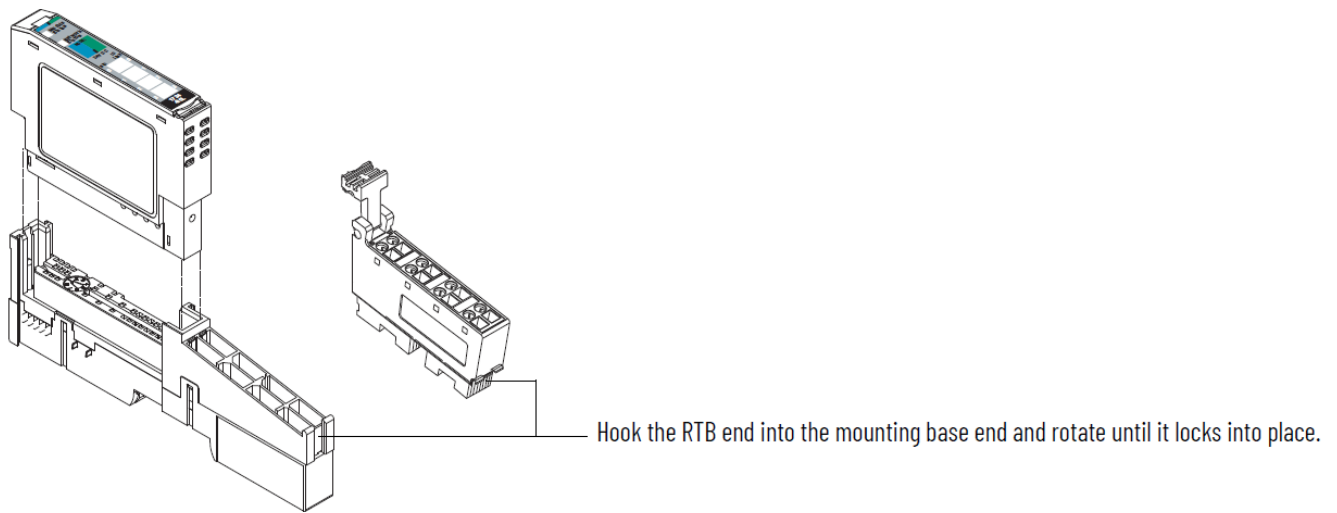
A Removable Terminal Block (RTB) is supplied with your wiring base assembly. To remove, pull up on the RTB handle. This allows the mounting base to be removed and replaced as necessary without removing any of the wirings. To reinsert the

Removable Terminal Block, proceed as follows:

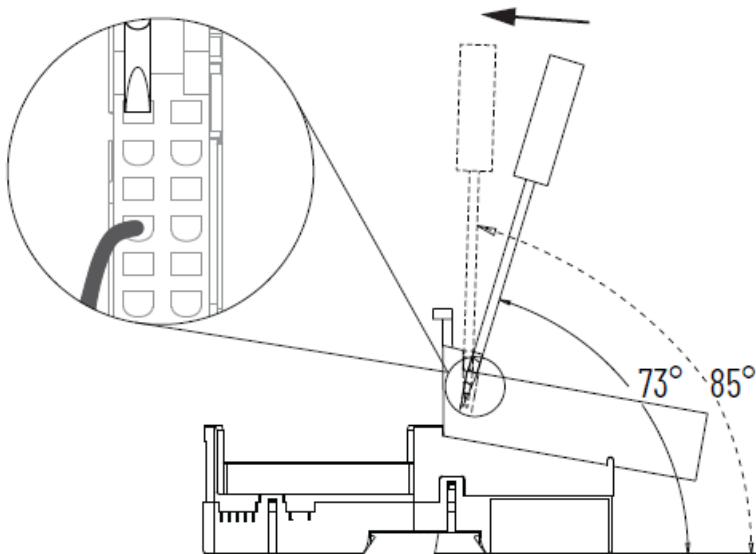


WARNING: When you connect or disconnect the Removable Terminal Block (RTB) with field-side power applied, an electrical arc can occur. This can cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.

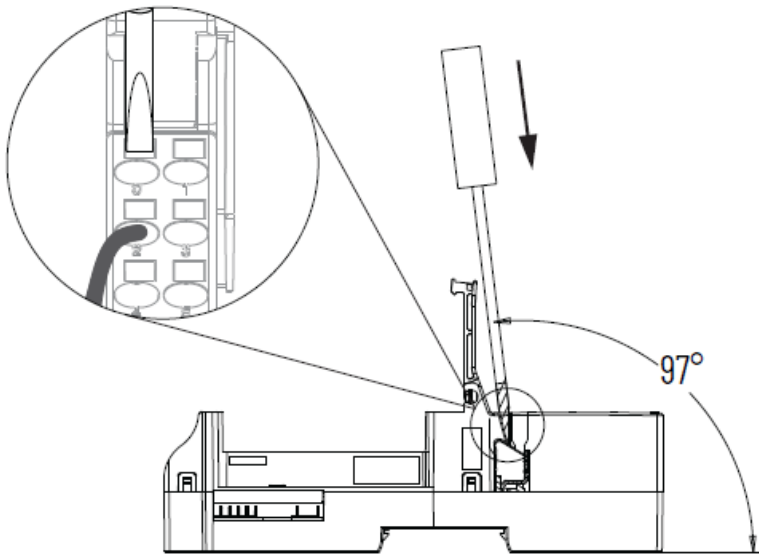
1. Insert the end opposite the handle into the base unit. This end has a curved section that engages with the wiring base.
2. Rotate the terminal block into the wiring base until it locks itself in place.
3. If an I/O module is installed, snap the RTB handle into place on the module.



WARNING: For 1734-RTBS and 1734-RTB3S, to latch and unlatch the wire, insert a bladed screwdriver (catalog number 1492-N90 – 3 mm diameter blade) into the opening at approximately 73° (blade surface is parallel with top surface of the opening) and push up gently.



WARNING: For 1734-TOPS and 1734-TOP3S, to latch and unlatch the wire, insert a bladed screwdriver (catalog number 1492-N90 – 3 mm diameter) into the opening at approximately 97° (blade surface is parallel with top surface of the opening) and press in (do not push up or down).



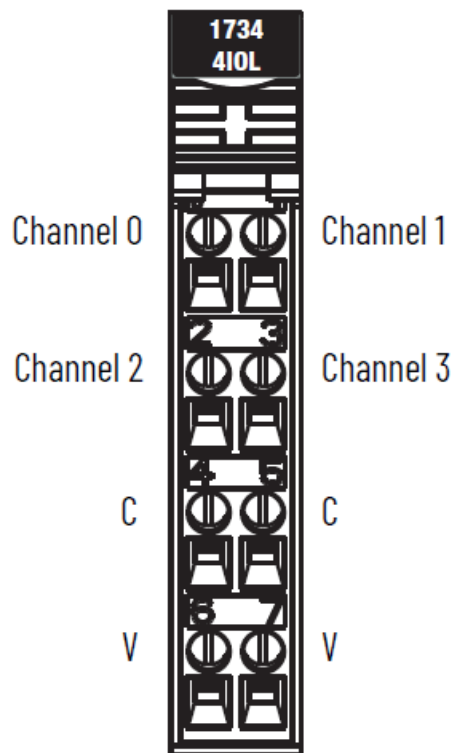
Remove a Mounting Base

To remove a mounting base, you must remove any installed module, and the module installed in the base to the right. Remove the RTB, if wired.

1. Unlatch the RTB handle on the I/O module.
2. Pull on the RTB handle to remove the RTB.
3. Press the module lock on the top of the module.
4. Pull on the I/O module to remove from the base.
5. Repeat steps 1, 2, 3, and 4 for the module to the right.
6. Use a small bladed screwdriver to rotate the orange base locking screw to a vertical position. The locking mechanism releases.
7. Lift straight up to remove.

Wire the Module

To wire the module, see the following diagrams and tables. POINT I/O 4 Channel IO-Link Master Module – 1734-4IOL



POINT I/O 4 Channel IO-Link Master Module Wiring – IO-Link Mode

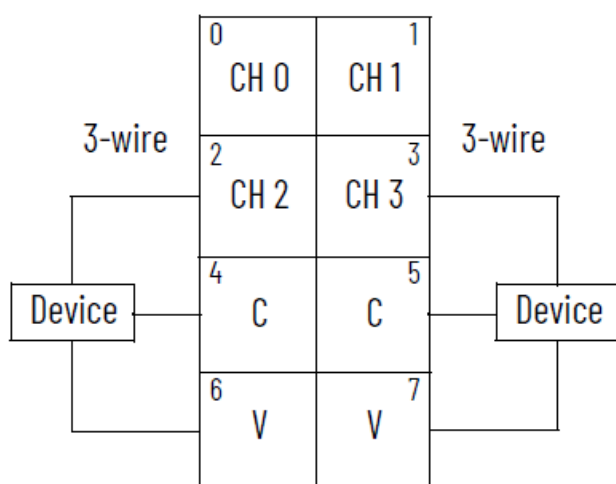
CH = IO-Link channel

C = Common

V = 24V DC

Device = IO-Link device (actuators, sensors)

V power is not protected and is limited to 0.3 A max per module.



| Channel | Common | Voltage |
|-----------|--------|---------|
| Channel□ | 4 | 6 |
| Channel 1 | 5 | 7 |
| Channel 2 | 4 | 6 |
| Channel 3 | 5 | 7 |

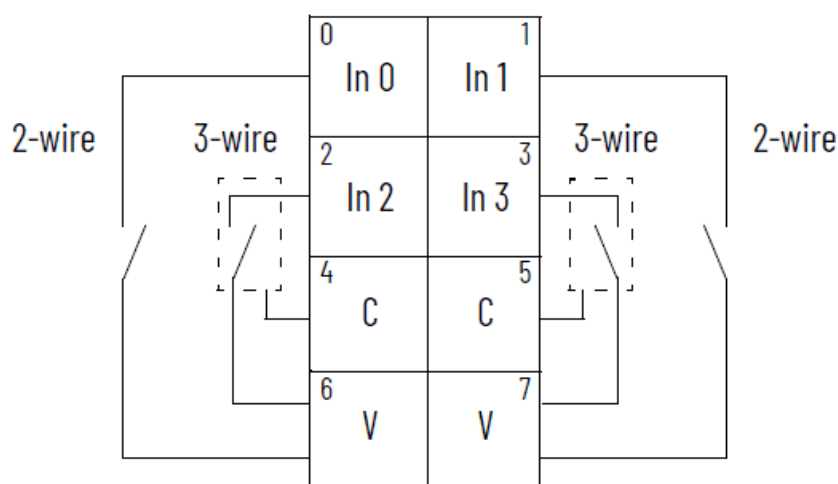
POINT I/O 4 Channel IO-Link Master Module Wiring – Standard Digital Input Mode

In = Input channel

C = Common

V = 24V DC

V power is not protected and is limited to 0.3 A max per module.



| Channel | Input | Common | Voltage |
|-----------|-------|--------|---------|
| Channel□ | 0 | 4 | 6 |
| Channel 1 | 1 | 5 | 7 |
| Channel 2 | 2 | 4 | 6 |
| Channel 3 | 3 | 5 | 7 |

- Connect common on 3-wire inputs. Power is supplied through the internal 24V DC power bus.

POINT I/O 4 Channel IO-Link Master Module Wiring – Standard Digital Output Mode

Out = Output channel

C = Common

V = 24V DC

V power is not protected and is limited to 0.3 A max per module.

[illegible]

- (1) Fault and idle conditions are only valid when the channel is configured for IO-Link or DO. Mode and Value behavior is defined in the IO-Link Channel object specification.
- (2) Time delays are specified in 1 ms increments, the valid range is 0...65 (a value of zero disables the input filter).

Default Data Map for 1734-4IOL – Consumed Assembly Instance 101

Message size: 0...128 Bytes

| Consumed Byte | Bit 7 | IBit 6 | IBit 5 | IBit 4 | IBit 3 | IBit 2 | IBit 1 | IBit 0 |
|---------------|--|--------|--------|--------|--------|--------|--------|--------|
| 0...a | Output data for Channel 0 | | | | | | | |
| a+1...b | Output data for Channel 1 ⁷ | | | | | | | |
| b+1...c | Output data for Channel 2 | | | | | | | |
| c+1...d | Output data for Channel 3(1) | | | | | | | |

(1) Consumed sizes can be in the range of 0...32. Output data for each channel always begin on a 32-bit boundary, and is enforced by software using the data description for the channel.

Default Data Map for 1734-4IOL – Produced Assembly Instance 102

Message size: 0...132 Bytes

| Consumed Byte | Bit 7 | IBit 6 | IBit 5 | IBit 4 | IBit 3 | IBit 2 | IBit 1 | IBit 0 |
|---------------|--|--------|--------|--------|--------|--------|--------|--------|
| 0 | Channel 0 status ¹¹ | | | | | | | |
| 2 | Channel 1 status(I) | | | | | | | |
| 4 | Channel 2 status ¹¹ | | | | | | | |
| 6 | Channel 3 status ¹¹ | | | | | | | |
| 8 | Channel 0 most recent event | | | | | | | |
| 12 | Channel 1 most recent event | | | | | | | |
| 16 | Channel 2 most recent event | | | | | | | |
| 20 | Channel 3 most recent event | | | | | | | |
| 24...a | Input data from Channel 0 ² | | | | | | | |

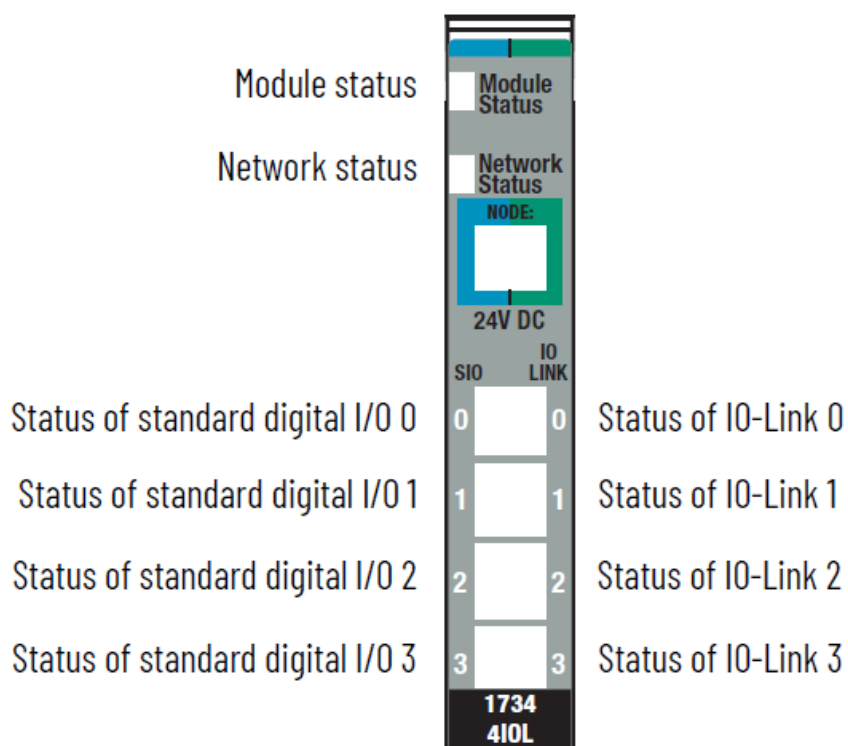
Default Data Map for 1734-4IOL – Produced Assembly Instance 102 (Continued)

Message size: 0...132 Bytes

| Consumed Byte | Bit 7 | IBit 6 | IBit 5 | IBit4 | IBit 3 | IBit 2 | IBit1 | IBit 0 | |
|---|--|--------|--------|-------|--------|--------|-------|--------|--|
| a+l...b | Input data from Channel Ji2l | | | | | | | | |
| b+l...c | Input data from Channel zi2l | | | | | | | | |
| c+l...d | Input data from Channel 31 ²⁾ | | | | | | | | |
| <p>(1) Channel status:</p> <p>Bit 0: 0 = Roll-up status, an OR of bits 1...7</p> <p>Bit 1: 0 = Connection to device,1= No connection to device Bit 2:1= Configuration to device in progress</p> <p>Bit 3:1= Device configuration failed Bit 4:1= ID-Link key failure</p> <p>Bit 5:1 = 00 short circuit</p> <p>Bit 6:1= Process data invalid Bit 7:1= Low-power fault</p> <p>Bit 8:1= ID-Link output value is forced to limit Bit 9...15: Reserved</p> <p>(2) Produced sizes can be in the range of 0 32. Input data for each channel always begin on a 32-bit boundary, and is enforced by software using the data description for the channel.</p> | | | | | | | | | |

Interpret Status Indicators

See the following diagram and table for information on how to interpret the status indicators. POINT I/O 4 Channel IO-Link Master Module – 1734-4IOL



Indicator Status for Modules

| | Status | Description |
|--------------------------------------|--------------------|--|
| Module status | Off | No power is applied to device. |
| | Green | Device is operating normally. |
| | Flashing green | Device needs commissioning due to missing,incomplete,or incorrect configuration. |
| | Flashing red | A recoverable fault occurred. |
| | Red | An unrecoverable fault occurred – may require device replacement. |
| | Flashing red/green | Device is in self-test mode. |
| Network status | Off | Device is not online: – Device has not completed dup_MAC-id test. – Device is not powered – check module status indicator. – No network power is present. |
| | Flashing green | Device is online but has no connections in the established state. |
| | Green | Device is online and has connections in the established state. |
| | Flashing red | One or more 1/0 connections are in timed-out state. |
| | Red | Critical link failure – failed communication device.Device detected error that prevents it from communicating on the network. |
| | Flashing red/green | Communication faulted device – the device has detected a network access error and is in communication faulted state. Device has received and accepted an Identity Communication Faulted Request – long protocol message. |
| Standard digital input/output status | Off | Standard digital input/output is offline,configured in ID-Link mode,or no power is applied to device. |
| | Yellow | Standard digital input/output is in ON state. |
| ID-Link status | Off | ID-Link is disabled, channel configured as standard digital 1/0, or no power is applied to device. |
| | Flashing green | Port starting up or no ID-Link device is detected. |
| | Green | ID-Link is operating normally. |

Specifications

General Specifications

| Attribute | Value |
|-----------------------------------|--|
| Number of inputs | 4 single-ended, non-mutual isolated, configurable |
| Number of outputs | |
| Communication rate, ID-Link | 4.8 kB; 38.4 kB; 230.4 kB |
| Device cable length, ID-Link, max | 20 m (65.6 ft) |
| Terminal base screw torque | 0.8 N•m (7 lb•in) |
| Module location | 1734-TB, 1734-TBS, 1734-TB3, 1734-TB3S, 1734-TOP, 1734-TOPS, 1734-TOP3, or 1734-TOP3S wiring base assembly |
| POINTBus™current, max | 100 mA@5VDC |
| Power dissipation, max | 1.5 W@28.8V DC |
| Thermal dissipation, max | 5.12 BTU/hr@28.8V DC |
| Isolation voltage | 50V (continuous), basic insulation type Tested at 2121V DC for 60 s, field-side to system. No isolation between individual channels. |
| Field power bus supply, nom | 24V DC |
| Field power bus supply, min | 19.2VDC |
| Field power bus supply, max | 28.8V DC |
| Backplane power | 5V DC, 100 mA |
| Input ratings | 24V DC, 12 mA |
| Output ratings, per channel | 24V DC, 0.15A |
| Output ratings, per module, max | 24V DC, 0.6 A |
| Indicators | 1 green/red – Module status indicator 1 green/red – Network status indicator 4 yellow – Channel status indicators 4 green – ID-Link status indicators |
| Wiring category ¹¹ | 2 – on signal ports |
| Wire size | 0.25...2.5 mm ² (22...14 AWG) solid or stranded copper wire that is rated at 75 °C(167 °F), or greater. 1.2 mm (3/64 in.) insulation max |
| Wire type | Copper |
| Dimensions, approx., HxWxD | 56 x 12 x 75.5 mm (2.21 X 0.47 X 2.97 in.) |
| Weight, approx. | 36 g (1.27 oz) |
| Enclosure type rating | None (open-style) |

(1) Use this Conductor Category information for planning conductor routing as described in the appropriate System Level Installation Manual. See Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1, for more information.

POINT I/O 4 Channel IO-Link Master Module 1734-4IOL, 1734-4IOLK – Standard Digital Input

| Attribute | Value |
|-----------------|--------------|
| Backplane power | 5V DC,100 mA |

| | |
|---------------|--------------|
| Input ratings | 24V DC,12 mA |
|---------------|--------------|

| | |
|----------------------------------|--|
| On-state voltage,min | 13V DC |
| On-state voltage,max | 30V DC |
| On-state current,min | 5.0 mA |
| On-state current,nom | 5.8mA |
| On-state current,max | 6.6 mA |
| Off-state voltage,max | 5V DC |
| Off-state current,max | 6.6 mA |
| Input filter ON to OFF OFF to ON | Each input independently settable in 1 ms intervals. Default value is 1 ms. 0...65 ms 0...65 ms |

POINT I/O 4 Channel IO-Link Master Module 1734-4IOL, 1734-4IOLK – Standard Digital Output

| Attribute | Value |
|---------------------------------|----------------|
| Backplane power | 5V DC, 100 mA |
| Output ratings, per channel | 24V DC, 0.15 A |
| Output ratings, per module, max | 24V DC, 0.6A |
| On-state voltage, min | 19.2V DC |

POINT I/O 4 Channel IO-Link Master Module 1734-4IOL, 1734-4IOLK – Standard Digital Output (Continued)

Waste Electrical and Electronic Equipment (WEEE)



At the end of life, this equipment should be collected separately from any unsorted municipal waste.

Rockwell Automation maintains current product environmental compliance information on its website at rok.auto/pec.

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FAQ


Q: Can I disable channels that are not in use?

A: Yes, channels can be disabled if they are not required for operation. Refer to the manual for instructions on disabling specific channels.






Q: What type of input do standard digital input channels support?

A: The standard digital input channels support IEC61131-2 type 1 input.

Documents / Resources

| | |
|--|--|
|  | Allen-Bradley 1734-4IOL 4 Channel IO Link Master Module [pdf] Installation Guide 1734-4IOL, 1734-4IOLK, 1734-4IOL 4 Channel IO Link Master Module, 1734-4IOL, 4 Channel I O Link Master Module, IO Link Master Module, Master Module, Module |
|--|--|

References

-  [Product Certifications | Rockwell Automation | US](#)
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