

POINT I/O 4 Channel IO-Link Master Module

Catalog Number 1734-4IOL

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Important User Information

Solid-state equipment has operational characteristics differing from those of electromechanical equipment. Safety Guidelines for the Application, Installation and Maintenance of Solid-state Controls (Publication [SGI-1.1](#) available from your local Rockwell Automation sales office or online at <http://www.rockwellautomation.com/literature/>) describes some important differences between solid-state equipment and hard-wired electromechanical devices. Because of this difference, and also because of the wide variety of uses for solid-state equipment, all persons responsible for applying this equipment must satisfy themselves that each intended application of this equipment is acceptable.

In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The examples and diagrams in this manual are included solely for illustrative purposes. Because of the many variables and requirements that are associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

No patent liability is assumed by Rockwell Automation, Inc. with respect to use of information, circuits, equipment, or software described in this manual.

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Throughout this manual, when necessary, we use notes to make you aware of safety considerations.

	WARNING: Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.
	ATTENTION: Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid a hazard and recognize the consequences.
	SHOCK HAZARD: Labels may be on or inside the equipment (for example, drive or motor) to alert people that dangerous voltage may be present.
	BURN HAZARD: Labels may be on or inside the equipment (for example, drive or motor) to alert people that surfaces may reach dangerous temperatures.
IMPORTANT	Identifies information that is critical for successful application and understanding of the product.

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 5V A 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.

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.
-

Electrical Safety Considerations



ATTENTION:

- This equipment is certified for use only within the surrounding air temperature range of -20...+55 °C (-4...+131 °F). The equipment must not be used outside of this range.
 - Use only a soft dry anti-static cloth to wipe down equipment. Do not use any cleaning agents.
-



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

Special Conditions for Safe Use

**ATTENTION:**

- This product is grounded through the DIN rail to chassis ground. Use zinc plated chromate-passivated steel DIN rail to assure proper grounding. The use of other DIN rail materials (for example, aluminum or plastic) that can corrode, oxidize, or are poor conductors, can result in improper or intermittent grounding. Secure DIN rail to mounting surface approximately every 200 mm (7.8 in.) and use end-anchors appropriately. Be sure to ground the DIN rail properly. Refer to Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#), for more information.
 - Do not remove or replace an Adapter Module while power is applied. Interruption of the backplane can result in unintentional operation or machine motion.
 - Do not discard the end cap. Use this end cap to cover the exposed interconnections on the last mounting base on the DIN rail. Failure to do so could result in equipment damage or injury from electric shock.
 - If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
-

**ATTENTION:** Do not wire more than two conductors on any single terminal.

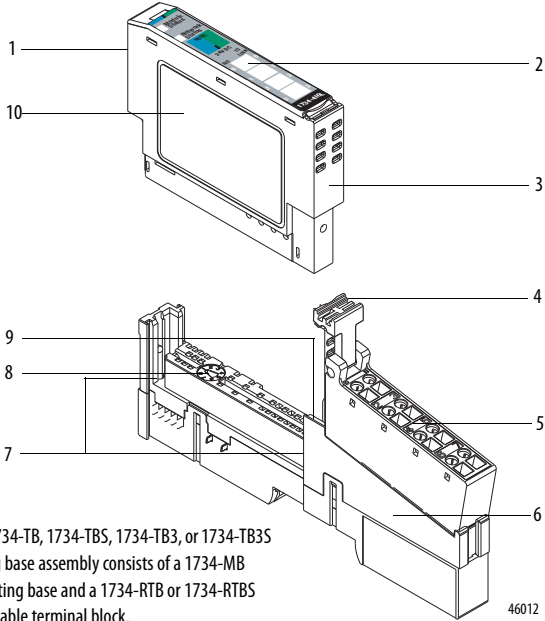
About the Module

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 1734-AENT or 1734-AENTR, Series B EtherNet/IP adapters, firmware revision 5.012 or later, and RSLogix 5000®/Studio 5000® software, version 20 or later. Use this diagram to identify the external features of the module.

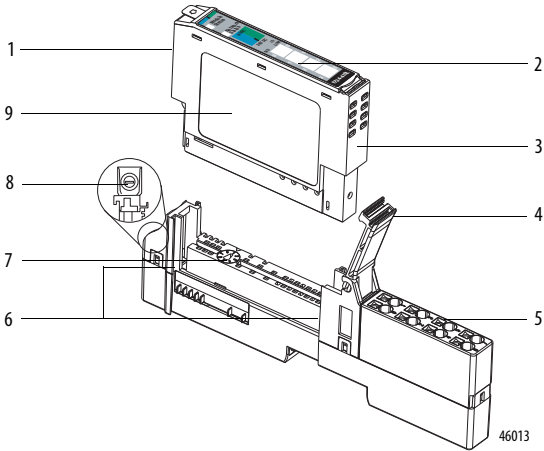
POINT I/O 4 Channel IO-Link Master Module with 1734-TB, 1734-TBS, 1734-TB3, or 1734-TB3S Wiring Base Assembly



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

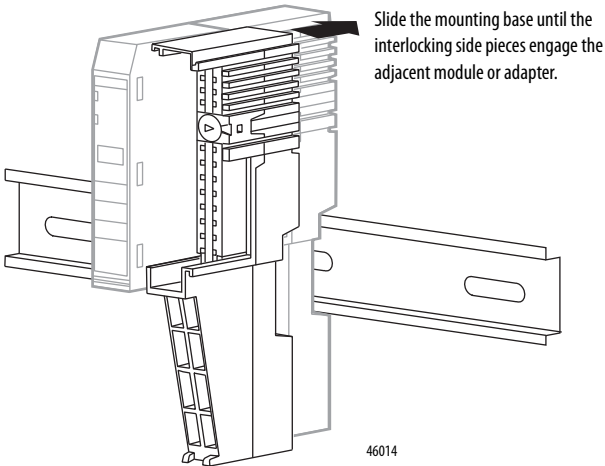


	Description		Description
1	Module locking mechanism	6	Interlocking side pieces
2	Slide-in writable label	7	Mechanical keying (orange)
3	Insertable I/O module	8	DIN rail locking screw (orange)
4	Terminal block handle	9	Module wiring diagram
5	One-piece terminal base		

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).



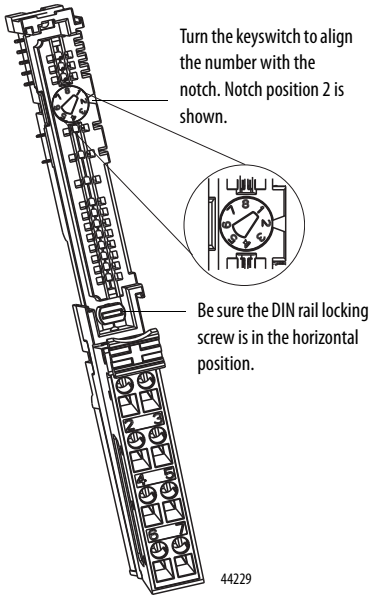
2. Slide the mounting base down allowing the interlocking side pieces to engage the adjacent module or adapter.
3. Press firmly to seat the mounting base on the DIN rail. The mounting base snaps into place. Be sure that the orange DIN rail locking screw is in the horizontal position and that it has engaged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

Install the Module

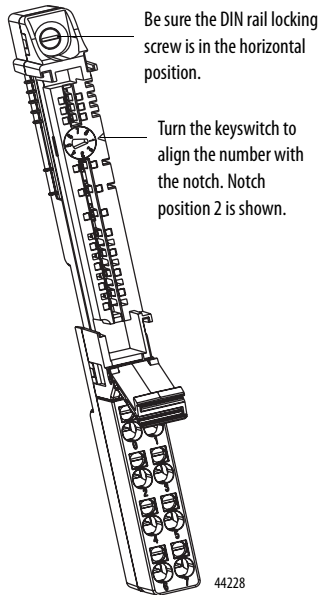
The module can be installed before or after base installation. Make sure that the mounting base is correctly keyed before installing the module into the mounting

base. In addition, make sure that the mounting base locking screw is positioned horizontal referenced to the base.

1734-TB Base

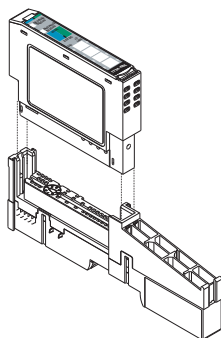


1734-TOP Base



1. Using a bladed screwdriver, 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. Make certain 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.



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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.

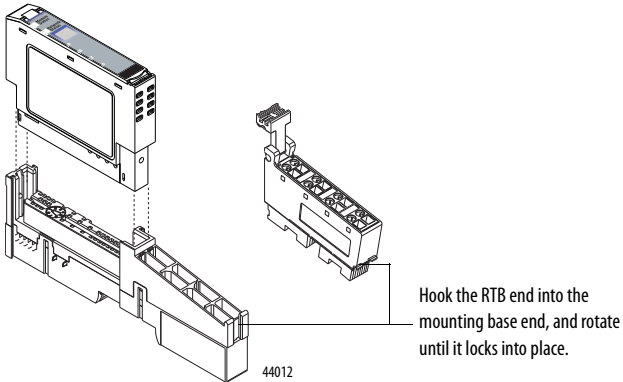


WARNING: When you connect or disconnect the Removable Terminal Block (RTB) with field-side power applied, an electrical arc can occur. This can cause an explosion in hazardous location installations.

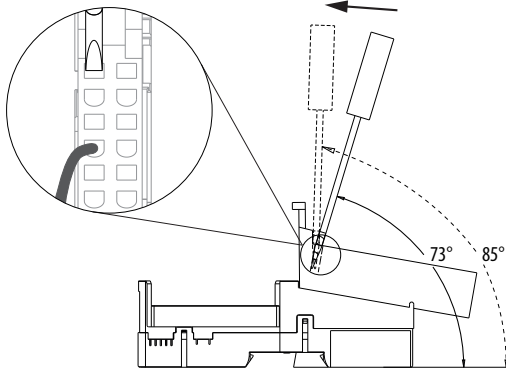
Be sure that power is removed or the area is nonhazardous before proceeding.

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.

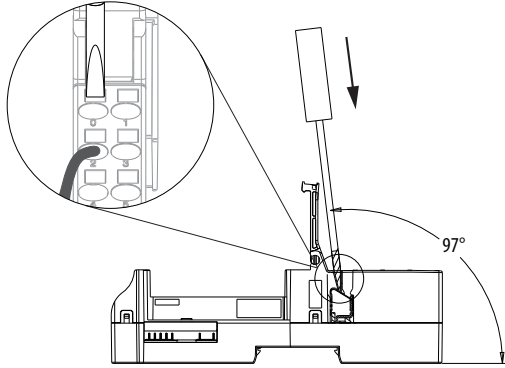


WARNING: For 1734-RTBS and 1734-RTB3S, to latch and unlatch the wire, insert a bladed screwdriver (catalog number 1492-N90 – 3 mm diameter blade) into the opening at approximately 73° (blade surface is parallel with top surface of the opening) and push up gently.





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

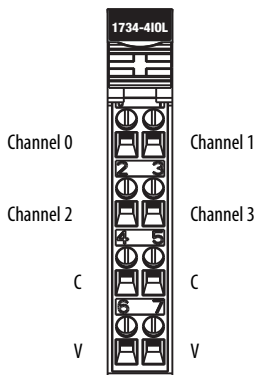
To remove a mounting base, you must remove any installed module and the module that is installed in the base to the right. Remove the removable terminal block, if wired.

1. Unlatch the RTB handle on the I/O module.
2. Pull on the RTB handle to remove the removable terminal block.
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. This releases the locking mechanism.
7. Lift straight up to remove.

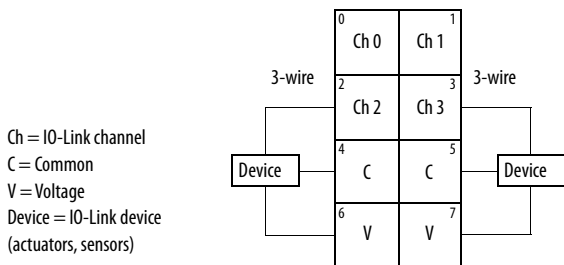
Wire the Module

To wire the module, refer to the diagrams and tables.

POINT I/O 4 Channel IO-Link Master Module – 1734-4IOL



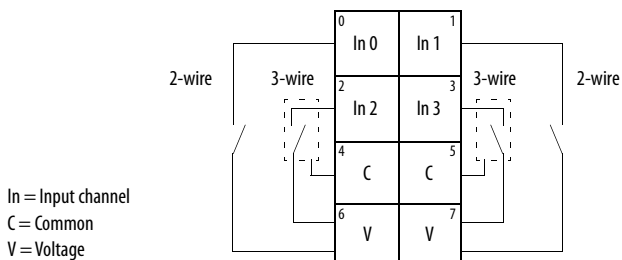
POINT I/O 4 Channel IO-Link Master Module Wiring - IO-Link Mode



Channel	Common	Voltage
0	4	6
1	5	7
2	4	6
3	5	7

Power is supplied through the internal power bus.

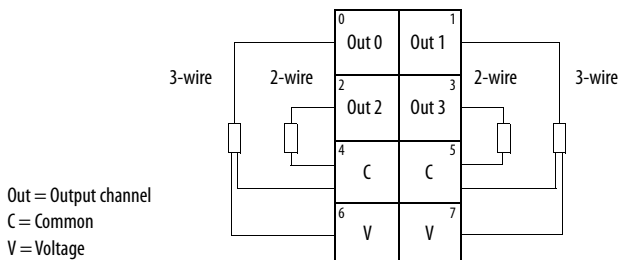
POINT I/O 4 Channel IO-Link Master Module Wiring – Standard Digital Input Mode



Channel	Input	Common	Voltage
Channel 0	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 power bus.

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



Channel	Output	Common	Voltage
Channel 0	0	4	6
Channel 1	1	5	7

Channel	Output	Common	Voltage
Channel 2	2	4	6
Channel 3	3	5	7

Connect voltage on 3-wire outputs. Power is supplied through the internal power bus.

Communicate with the Module

POINT I/O™ modules send (produce) and receive (consume) I/O data (messages). You map this data into the memory of the processor.

The consumed and produced connection sizes may range from 0...32 bytes.

Default Data Map for 1734-4IOL – Configuration Assembly Instance 100

Message Size: 46 Bytes

Consumed Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
36	Channel 0 fault mode ⁽¹⁾							
37	Channel 0 idle mode ⁽¹⁾							
38	Channel 1 fault mode ⁽¹⁾							
39	Channel 1 idle mode ⁽¹⁾							
40	Channel 2 fault mode ⁽¹⁾							
41	Channel 2 idle mode ⁽¹⁾							
42	Channel 3 fault mode ⁽¹⁾							
43	Channel 3 idle mode ⁽¹⁾							
44	Channel 0 input off to on time delay ⁽²⁾							
45	Channel 0 input on to off time delay ⁽²⁾							
46	Channel 1 input off to on time delay ⁽²⁾							
47	Channel 1 input on to off time delay ⁽²⁾							
48	Channel 2 input off to on time delay ⁽²⁾							
49	Channel 2 input on to off time delay ⁽²⁾							

Default Data Map for 1734-4IOL – Configuration Assembly Instance 100**Message Size: 46 Bytes**

Consumed Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
50	Channel 3 input off to on time delay ⁽²⁾							
51	Channel 3 input on to off time delay ⁽²⁾							

(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, 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	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
0...a	Output data for Channel 0 ⁽¹⁾							
a+1...b	Output data for Channel 1 ⁽¹⁾							
b+1...c	Output data for Channel 2 ⁽¹⁾							
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	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
0	Channel 0 status ⁽¹⁾							
2	Channel 1 status ⁽¹⁾							
4	Channel 2 status ⁽¹⁾							
6	Channel 3 status ⁽¹⁾							
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⁾							
a+1...b	Input data from Channel 1 ⁽²⁾							

Default Data Map for 1734-4IOL – Produced Assembly Instance 102**Message Size: 0...132 Bytes**

Consumed Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
b+1...c	Input data from Channel 2 ⁽²⁾							
c+1...d	Input data from Channel 3 ⁽²⁾							

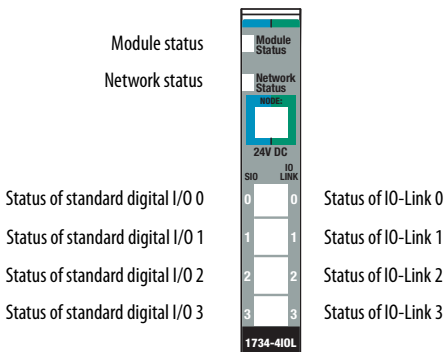
(1) Channel status:

- Bit 0: 0 = Roll-up status, an OR of bits 1...7
- Bit 1: 0 = Connection to device, 1 = No connection to device
- Bit 2: 1 = Configuration to device in progress
- Bit 3: 1 = Device configuration failed
- Bit 4: 1 = IO-Link key failure
- Bit 5: 1 = DO short circuit
- Bit 6: 1 = Process data invalid
- Bit 7: 1 = Low-power fault
- Bit 8: 1 = IO-Link output value is forced to limit
- Bit 9...15: Reserved

(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.

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 applied to device.
	Green	Device operating normally.
	Flashing green	The device has not been configured.
	Flashing red	Recoverable fault.
	Red	One or more non-recoverable major faults detected.
	Flashing red/green	Device is self-testing.
Network status	Off	Device is not online: – Device has not completed dup_MAC-id test. – Device not powered – check Module Status indicator. – No network power 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 I/O 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 IO-Link mode, or no power applied to device.
	Yellow	Standard Digital input/output is in ON state.
IO-Link status	Off	IO-Link is disabled, channel configured as standard digital I/O, or no power applied to device.
	Flashing green	Port starting-up or no IO-Link device detected.
	Green	IO-Link operating normally.

Specifications

General Specifications

Attribute	Value
Number of inputs	4 single-ended, non-mutual isolated, configurable
Number of outputs	
Communication rate, IO-Link	4.8 kB; 38.4 kB; 230.4 kB
Device cable length, IO-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 @ 5V DC
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	19.2V DC
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, 0.15 A
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 – IO-Link status indicators
Wiring category ⁽¹⁾	2 – on signal ports
Wire size	0.25...2.5 mm ² (22...14 AWG) solid or stranded copper wire rated at 75 °C (167 °F), or greater. 1.2 mm (3/64 in.) insulation max
Wire type	Copper

General Specifications

Attribute	Value
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)
Keyswitch position	2

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

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

Attribute	Value
Backplane power	5V DC, 100 mA
Input ratings	24V DC, 12 mA
On-state voltage, min	11V DC
On-state current, min	2.0 mA
On-state current, max	7.0 mA
Off-state voltage, max	5V DC
Off-state current, min	1.5 mA
Input filter	Each input independently settable in 1 ms intervals. Default value is 1 ms.
ON to OFF	0...65 ms
OFF to ON	0...65 ms

POINT I/O 4 Channel IO-Link Master Module 1734-4IOL – 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, 0.6 A
On-state voltage, min	19.2V DC
On-state voltage, max	28.8V DC

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

Attribute	Value
On-state voltage, nom	24V DC
On-state voltage drop, max	0.9V DC
On-state current, max	150 mA
Off-state current leakage, max	0.5 mA
Module current (all outputs), max	600 mA
Surge current, max	0.3 A for 10 ms, repeatable every 3 s

Environmental Specifications

Attribute	Value
Temperature, operating	IEC 60068-2-1 (Test Ad, operating cold), IEC 60068-2-2 (Test Bd, operating dry heat), IEC 60068-2-14 (Test Nb, operating thermal shock): -20...+55 °C (-4...+131 °F)
Temperature, nonoperating	IEC 60068-2-1 (Test Ab, unpackaged nonoperating cold), IEC 60068-2-2 (Test Bb, unpackaged nonoperating dry heat), IEC 60068-2-14 (Test Na, unpackaged nonoperating thermal shock): -40...+85 °C (-40...+185 °F)
Temperature, surrounding air, max	55 °C (131 °F)
Relative humidity	IEC 60068-2-30 (Test Db, unpackaged damp heat): 5...95% noncondensing
Vibration	IEC 60068-2-6 (Test Fc, Operating): 5 g @ 10...500 Hz
Shock, operating	IEC 60068-2-27 (Test Ea, unpackaged shock): 30 g
Shock, nonoperating	IEC 60068-2-27 (Test Ea, unpackaged shock): 50 g
Emissions	IEC 61000-6-4
ESD immunity	IEC 61000-4-2: 6 kV contact discharges 8 kV air discharges

Environmental Specifications

Attribute	Value
Radiated RF immunity	IEC 61000-4-3: 10V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10V/m with 200 Hz 50% pulse 100% AM at 900 MHz 10V/m with 200 Hz 50% pulse 100% AM at 1890 MHz 10V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz
EFT/B immunity	IEC 61000-4-4: ±2 kV at 5 kHz on power ports ±2 kV at 5 kHz on signal ports
Surge transient immunity	IEC 61000-4-5: ±1 kV line-line (DM) and ±2 kV line-earth (CM) on signal ports
Conducted RF immunity	IEC 61000-4-6: 10V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz

Certifications

Certification (When Product Is Marked) ⁽¹⁾	Value
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E322657.
CE	European Union 2014/30/EU EMC Directive, compliant with: <ul style="list-style-type: none"> • EN 61326-1; Measurement/Control/Laboratory use, Industrial requirements • EN 61000-6-2; Industrial Immunity • EN 61000-6-4; Industrial Emissions • EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) European Union 2011/65/EU RoHS, compliant with: <ul style="list-style-type: none"> • EN 50581; Technical documentation
RCM	Australian Radiocommunications Act, compliant with: AS/NZS CISPR11; Industrial Emissions.
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: <ul style="list-style-type: none"> • Article 58-2 of Radio Waves Act, Clause 3
EAC	Russian Customs Union TR CU 020/2011 EMC Technical Regulation

(1) See the Product Certification link at <http://www.rockwellautomation.com/global/certification/overview.page> for Declaration of Conformity, Certificates, and other certification details.

Notes:

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Rockwell Automation Support

Use the following resources to access support information.

Technical Support Center	Knowledgebase Articles, How-to Videos, FAQs, Chat, User Forums, and Product Notification Updates.	www.rockwellautomation.com/knowledgebase
Local Technical Support Phone Numbers	Locate the phone number for your country.	www.rockwellautomation.com/global/support/get-support-now.page
Direct Dial Codes	Find the Direct Dial Code for your product. Use the code to route your call directly to a technical support engineer.	www.rockwellautomation.com/global/support/direct-dial.page
Literature Library	Installation Instructions, Manuals, Brochures, and Technical Data.	www.rockwellautomation.com/literature
Product Compatibility and Download Center (PCDC)	Get help determining how products interact, check features and capabilities, and find associated firmware.	www.rockwellautomation.com/global/support/pcdc.page

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