

PointMax I/O System Specifications

Bulletin 5034

Topic
PointMax I/O System Overview on page 5
EtherNet/IP Adapter on page 7
Mounting Bases on page 12
Digital I/O Modules on page 16
Safety Digital I/O Modules on page 36
Analog I/O Modules on page 45
Specialty I/O Module on page 69
Expansion Power on page 78
Power Terminal Module on page 82
Removable Terminal Blocks on page 85
Accessories on page 92
Additional Resources on page 96

Rockwell Automation recognizes that some of the terms that are currently used in our industry and in this publication are not in alignment with the movement toward inclusive language in technology. We are proactively collaborating with industry peers to find alternatives to such terms and making changes to our products and content. Please excuse the use of such terms in our content while we implement these changes.

Catalog Numbers

This publication is applicable to these modules and accessories:

EtherNet/IP Adapter	5034-AENTR, 5034-AENTRXT
Mounting Base	5034-MB, 5034-MBXT, 5034-MBSA, 5034-MBSAXT
Digital I/O Module	5034-IB16, 5034-IB16XT, 5034-IB8, 5034-IB8XT, 5034-OB16, 5034-OB16XT, 5034-OB8, 5034-OB8XT, 5034-OW4I, 5034-OW4IXT
Safety Digital I/O Module	5034-IB8S, 5034-IB8SXT, 5034-OB8S, 5034-OB8SXT
Analog I/O Module	5034-IF8C, 5034-IF8CXT, 5034-IF8V, 5034-IF8VXT, 5034-IF4, 5034-IF4XT, 5034-IRT4I, 5034-IRT4IXT, 5034-OF4, 5034-OF4XT
Specialty I/O Module	5034-IOL4, 5034-IOL4XT
Expansion Power	5034-EXP, 5034-EXPXT
Potential Terminal Module	5034-MBPTM, 5034-MBPTMXT
Removable Terminal Block for Modules	5034-RTB18, 5034-RTB18S, 5034-RTB24S, 5034-RTBT, 5034-RTBTS
Removable Terminal Block Accessories	5034-RTB2, 5034-RTB2S, 5034-RTB6, 5034-RTB6S
Accessories	5034-AENRTB-QTY5, 5034-AENRTBS-QTY5, 5034-RTB2-QTY5, 5034-RTB2S-QTY5, 5034-SHIELD-QTY5, 5034-ECR-QTY5, 5034-WIREHLD-QTY5, 5034-CM18-IB16-QTY5, 5034-CM18-OB16-QTY5, 5034-CM18-IB8-QTY5, 5034-CM18-IB8S-QTY5, 5034-CM18-OB8-QTY5, 5034-CM18-IF4-QTY5, 5034-CM18-OF4-QTY5, 5034-CM18-IF8C-QTY5, 5034-CM18-IF8V-QTY5, 5034-CM18-IRT4I-QTY5, 5034-CM18-OW4I-QTY5, 5034-CM18-IOL4-QTY5, 5034-CM18-MBPTM-QTY5, 5034-CM24-IF8-QTY5, 5034-CM24-IB8-QTY5, 5034-KEY-QTY5, 5034-N

Terminology

This table defines the terms that are used in this publication.

Table 1. Terminology

Acronym	Full Term	Definition
BP	Backplane Power	Power that is generated from module power by the adapter and expansion power, and supplied to the I/O system through the backplane.
CIP™	Common Industrial Protocol	An industrial communication protocol that is used by Logix 5000® based automation systems on EtherNet/IP™, ControlNet®, and DeviceNet® communication networks.
CIP Sync™	Common Industrial Protocol Synchronization	CIP Sync provides the increased control coordination needed for control applications where absolute time synchronization is vital to achieve real-time synchronization between distributed intelligent devices and systems.
CJC	Cold Junction Compensator	A device that is used in thermocouple measurements to help obtain accurate temperature readings at the hot junction.
HART	Highway Addressable Remote Transducer	A protocol that enables both analog and digital communication over the same wiring, including device diagnostic and status information.
MB	Mounting Base	A device that provides data and power connections from the backplane to the installed module.
MP	Module Power	Power that is supplied to the adapter and expansion power.
MSB	Most Significant Bit	The bit that has the largest value in a multi-bit binary number.
ODVA	Open DeviceNet Vendor Association	A nonprofit association of vendors that are established for the promotion of CIP networks.
PL	Performance Level	ISO 13849-1 safety rating
RIUP	Removal and Insertion Under Power	A feature that enables the device to be connected and disconnected from the system without having to remove power from the system.
RPI	Requested Packet Interval	Time interval (usually in milliseconds) that users are requesting their data be exchanged at
RTB	Removable Terminal Block	A component that is used for wiring field devices to.
RTD	Resistance Temperature Detector	A type of sensor whose resistances change as its temperature changes.
SA	Sensor Actuator	A term that is used to describe field-side devices.
SELV	Safety Extra Low Voltage	An electrical system where the voltage level is considered safe under normal or fault conditions, as defined in the EN and IEC standards.
SIO	Standard Input/Output	Describes the function of a port on an IO-Link master device.
SSV	Sensor Source Voltage	Voltage that is supplied to a sensor.
XT	Harsh Environment	These modules have additional conformal coating and design considerations that add a greater degree of protection when exposed to harsh, corrosive environments.
VCL	Voltage Clamp Low	The low threshold for limiting the voltage level.

Components and Accessories Compatibility

The following table lists the I/O modules and which MB, RTB, and color markers they are compatible with.

Table 2. Components and Accessories Compatibility

Catalog Number	MB Supported	RTB Supported	Color Marker (5034-CM18)	Color Marker (5034-CM24)
5034-IB16	5034-MB, 5034-MBSA	5034-RTB18, 5034-RTB18S	5034-CM18-IB16-QTY5	-
5034-IB16XT	5034-MBXT, 5034-MBSAXT			
5034-IB8	5034-MB, 5034-MBSA	5034-RTB18, 5034-RTB18S, 5034-RTB24S	5034-CM18-IB8-QTY5	5034-CM24-IB8-QTY5
5034-IB8XT	5034-MBXT, 5034-MBSAXT			
5034-OB16	5034-MB, 5034-MBSA	5034-RTB18, 5034-RTB18S	5034-CM18-OB16-QTY5	-
5034-OB16XT	5034-MBXT, 5034-MBSAXT			
5034-OB8	5034-MB, 5034-MBSA	5034-RTB18, 5034-RTB18S	5034-CM18-OB8-QTY5	-
5034-OB8XT	5034-MBXT, 5034-MBSAXT			
5034-OW4I	5034-MB, 5034-MBSA	5034-RTB18, 5034-RTB18S	5034-CM18-OW4I-QTY5	-
5034-OW4IXT	5034-MBXT, 5034-MBSAXT			
5034-IB8S	5034-MB, 5034-MBSA	5034-RTB18, 5034-RTB18S	5034-CM18-IB8S-QTY5	-
5034-IB8SXT	5034-MBXT, 5034-MBSAXT			
5034-OB8S	5034-MB, 5034-MBSA	5034-RTB18, 5034-RTB18S	5034-CM18-OB8S-QTY5	-
5034-OB8SXT	5034-MBXT, 5034-MBSAXT			
5034-IF8C	5034-MB, 5034-MBSA	5034-RTB18, 5034-RTB18S, 5034-RTB24S	5034-CM18-IF8C-QTY5	5034-CM24-IF8C-QTY5
5034-IF8CXT	5034-MBXT, 5034-MBSAXT			
5034-IF8V	5034-MB, 5034-MBSA	5034-RTB18, 5034-RTB18S, 5034-RTB24S	5034-CM18-IF8V-QTY5	5034-CM24-IF8V-QTY5
5034-IF8VXT	5034-MBXT, 5034-MBSAXT			
5034-IF4	5034-MB, 5034-MBSA	5034-RTB18, 5034-RTB18S	5034-CM18-IF4-QTY5	-
5034-IF4XT	5034-MBXT, 5034-MBSAXT			
5034-IRT4I	5034-MB, 5034-MBSA	5034-RTB18, 5034-RTB18S, 5034-RTBT, 5034-RTBTS	5034-CM18-IRT4I-QTY5	-
5034-IRT4IXT	5034-MBXT, 5034-MBSAXT			
5034-OF4	5034-MB, 5034-MBSA	5034-RTB18, 5034-RTB18S	5034-CM18-OF4-QTY5	-
5034-OF4XT	5034-MBXT, 5034-MBSAXT			
5034-IOL4	5034-MB, 5034-MBSA	5034-RTB18, 5034-RTB18S	5034-CM18-IOL4-QTY5	-
5034-IOL4XT	5034-MBXT, 5034-MBSAXT			
5034-MBPTM	5034-MB, 5034-MBSA	5034-RTB18, 5034-RTB18S	5034-CM18-MBPTM-QTY5	-
5034-MBPTMXT	5034-MBXT, 5034-MBSAXT			

PointMax I/O System Overview

Figure 1. PointMax I/O System



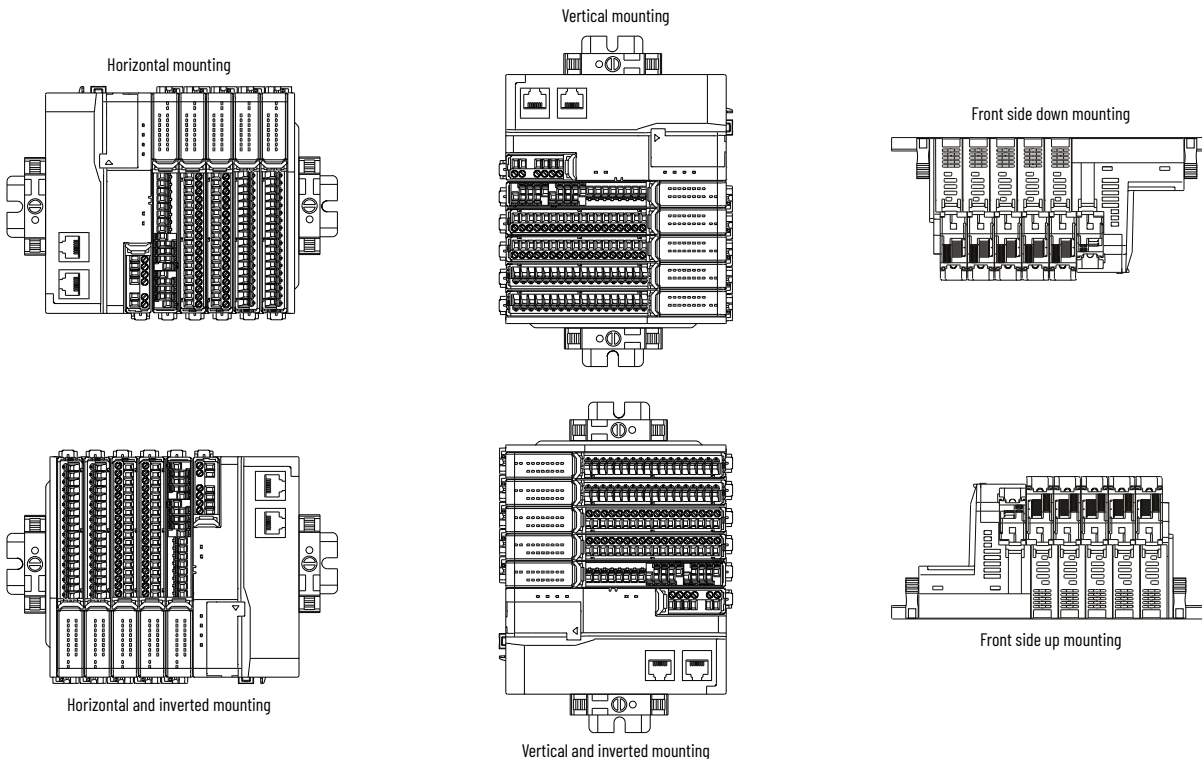
The PointMax™ I/O architecture provides a wide range of input and output modules to span many applications, such as machine, hybrid, and process control. The architecture uses Producer/Consumer technology that allows input information and output status to be shared among multiple Logix 5000 controllers. PointMax I/O systems are used as remote I/O modules with Logix 5000 controllers. You configure the modules with the Studio 5000 Logix Designer® application.

A PointMax I/O system consists of one EtherNet/IP adapter and supports up to 32 I/O modules. A 5034-EXP or 5034-EXPXT expansion power is required when using more than 16 I/O modules. The I/O modules are mounted on an MB and require an RTB to connect field-side wiring. You must purchase an MB and an RTB individually for each I/O module.

The PointMax I/O system is mounted onto a zinc-plated chromate-passivated steel DIN rail such as the Allen-Bradley® 199-DR1; 46277-4; EN 60715 – 35 x 7.5 mm (1.38 x 0.30 in.). You must also install DIN rail end anchors (Allen-Bradley 1492-EAJ35 or 1492-EAHJ35) at both ends of your system for vibration or shock environments.

The PointMax I/O system can be oriented in the following positions.

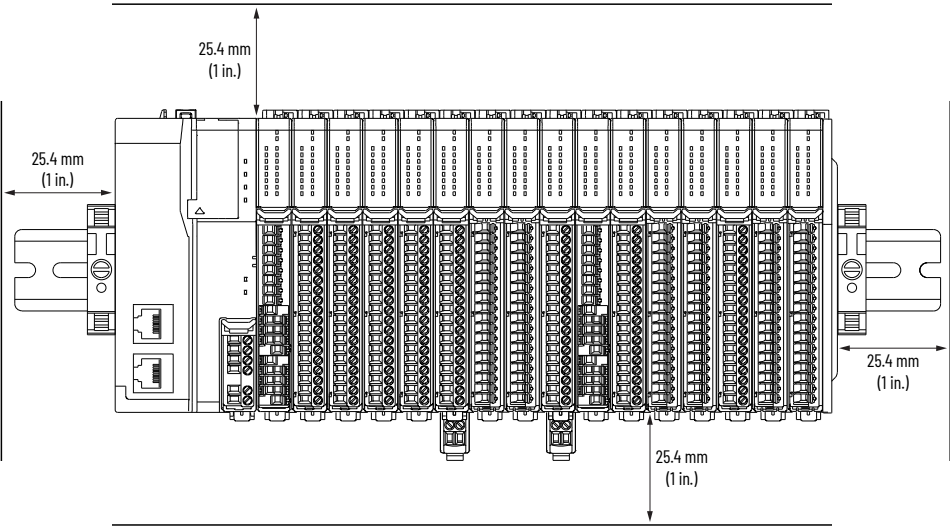
Figure 2. PointMax I/O System Mounting Orientations



Spacing

Maintain spacing from enclosure walls, wireways, and adjacent equipment. Allow 25.4 mm (1 in.) of space on all sides for adequate ventilation.

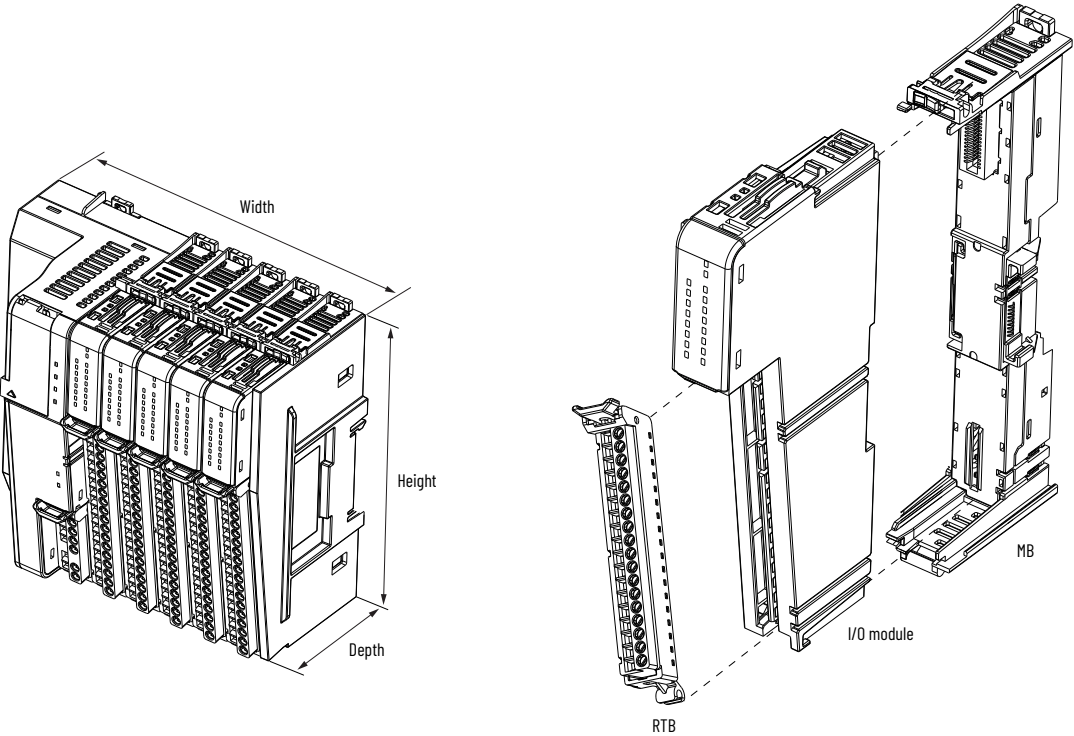
Figure 3. Spacing Example



Dimensions

The dimension measurements that are provided in this publication are based on the horizontal mounting orientation.

Figure 4. Dimension Example



An I/O module, MB, and RTB are required to fill a slot in the chassis.

EtherNet/IP Adapter

Module Type	Catalog Number	Description
EtherNet/IP Adapter	5034-AENTR, 5034-AENTRXT	EtherNet/IP adapter

Environmental specifications and certifications for PointMax EtherNet/IP adapter are provided in [Environmental Specifications and Certifications on page 9](#).

5034-AENTR and 5034-AENTRXT EtherNet/IP Adapter

Figure 5. 5034-AENTR and 5034-AENTRXT Wiring Diagram

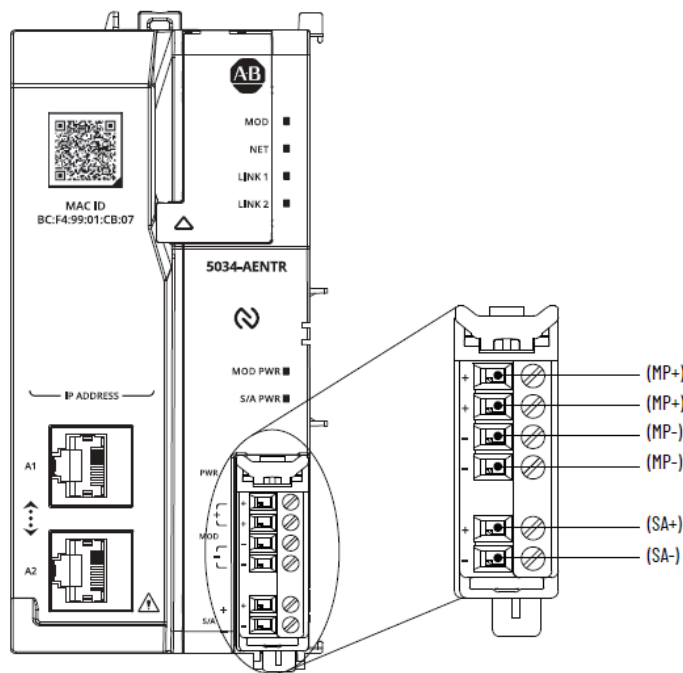


Table 3. Technical Specifications - 5034-AENTR, 5034-AENTRXT

Attribute	5034-AENTR, 5034-AENTRXT
Number of I/O modules supported	32 A 5034-EXP or 5034-EXPXT is required when using more than 16 I/O modules.
Number of MB supported	16 for 18...30V DC 8 for 10...18V DC
MP voltage, nom	24V DC SELV
MP voltage range	10...30V DC SELV
MP current, nom	0.6 A @ 24V DC
MP current, max	850 mA @ 10V DC (8 MB) 800 mA @ 18V DC (16 MB) 500 mA @ 30V DC (16 MB)
Voltage and current ratings, MP inrush, max	6 A for 10 ms @ 24V DC SELV

Table 3. Technical Specifications - 5034-AENTR, 5034-AENTRXT (continued)

Attribute	5034-AENTR, 5034-AENTRXT
Voltage and current ratings, SA	10...30V DC SELV, 10 A Do not exceed 10 A current draw at the SA power RTB
Voltage and current ratings, backplane	16V DC, 300 mA max (8 MB) 16V DC, 600 mA max (16 MB)
SA power current at no load	2 mA
Power dissipation, max	3.6 W
Thermal dissipation, max	12.3 BTU/hr
Isolation voltage	250V (continuous), Basic Isolation, SA to backplane 250V (continuous), Basic Isolation, SA to MP 250V (continuous), Basic Isolation, Ethernet port to SA 60V (continuous), Basic Isolation, MP to backplane 60V (continuous), Basic Isolation, Ethernet port to MP 60V (continuous), Basic Isolation, Ethernet port to backplane No isolation between Ethernet ports
RTB supported	An RTB and end cap ships with the adapter. You can order additional screw-type (5034-AENRTB-QTY5) and push-in spring-type (5034-AENRTBS-QTY5) RTBs separately.
Wiring category ⁽¹⁾	2 - Power ports 2 - Ethernet ports
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Indicators	1 green/red module status indicator 1 green/red network status indicator 2 green/red network connection status indicators 1 green module power status indicator 1 green SA power status indicator
Dimensions (HxWxD), approx	131.74 x 62.65 x 76 mm (5.18 x 2.46 x 2.99 in.)
Weight, approx	200 g (7.05 oz.) - 5034-AENTR 202 g (7.13 oz.) - 5034-AENTRXT
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

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

Environmental Specifications and Certifications

The following tables provide the environmental specifications and certifications for the PointMax EtherNet/IP adapter.

Table 4. Environmental Specifications - PointMax EtherNet/IP Adapter

Attribute	5034-AENTR	5034-AENTRXT
Temperature, operating	IEC 60068-2-1 (Test Ae, Operating Cold), IEC 60068-2-2 (Test Be, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -25 °C ≤ Ta ≤ +60 °C (-13 °F ≤ Ta ≤ +140 °F) for horizontal orientation -25 °C ≤ Ta ≤ +55 °C (-13 °F ≤ Ta ≤ +131 °F) for other orientations	
Temperature, surrounding air, max	60 °C (140 °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)	
Relative humidity	IEC 60068-2-30 (Test Db, Unpackaged Damp Heat): 5...95% noncondensing	
Conformal coated	No	Yes
Corrosive Atmosphere - ASTM B845-97 Method K Accelerated Test (30-Day Exposure) - Plus additional Rockwell Automation proprietary accelerated corrosive environment test protocol for specific industries with sources of gaseous sulfur compounds.	—	Severity Level GX ⁽¹⁾⁽²⁾ per ANSI/ISA 71.04-2013, Airborne Contaminants—Gases Severity Level CX ⁽¹⁾ per IEC 60721-3-3:2019, Chemically Active Substances
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	
Repetitive shock, operating	IEC 60068-2-27, 25 g, 6 ms duration, 1000 shocks in each ± direction in each 3 axis	
Shock, nonoperating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 50 g	
Emissions	IEC 61000-6-4 EN 300 330	
ESD immunity	IEC 61000-4-2: 6 kV contact discharges 8 kV air discharges EN 301 489-1: EN 301 489-3: 4 kV contact discharges 8 kV air discharges	

Table 4. Environmental Specifications - PointMax EtherNet/IP Adapter (continued)

Attribute	5034-AENTR	5034-AENTRXT
Radiated RF immunity	IEC 61000-4-3: 10V/m with 1 kHz sine wave 80% AM from 80...6000 MHz EN 301 489-1: EN 301 489-3: 3V/m with 1 kHz sine wave 80% AM from 80...6000 MHz	
EFT/B immunity	IEC 61000-4-4: ±3 kV @ 5 kHz on power ports ±3 kV @ 5 kHz on Ethernet ports EN 301 489-1: EN 301 489-3: ±0.5 kV @ 5 kHz on power ports	
Surge transient immunity	IEC 61000-4-5: EN 301 489-1: EN 301 489-3: ±1 kV line-line (DM) and ±2 kV line-earth (CM) on power ports ±2 kV line-earth (CM) on Ethernet ports	
Conducted RF immunity	IEC 61000-4-6: 10V rms with 1 kHz sine wave 80% AM from 150 kHz...80 MHz EN 301 489-1: EN 301 489-3: 3V rms with 1 kHz sine wave 80% AM from 150 kHz...80 MHz	
Voltage dips and variations	IEC 61000-4-29: 10 ms interruption on MP ports	

(1) Dust caps must remain installed in unused ports at all times during storage and operation for the product to meet its corrosive atmosphere rating. The adapter and the corresponding RTB must remain installed at all times, once the factory packaging seal is broken, for the product to maintain its corrosive atmosphere rating.

(2) Up to 2100 angstroms of film growth per 30 days of copper and/or silver reactivity.

Table 5. Certifications - PointMax EtherNet/IP Adapter

Certification ⁽¹⁾	5034-AENTR, 5034-AENTRXT
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E322657. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E334470.
UK and CE	UK Statutory Instrument 2016 No. 1091 and European Union 2014/30/EU EMC Directive, compliant with: EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) EN 301 489-1 V2.2.3; EMC requirements for radio equipment UK Statutory Instrument 2016 No. 1101 and European Union 2014/35/EU LVD, compliant with: EN 61010-2-201; Control Equipment Safety Requirements EN 301 489-3 V 2.3.2; EMC requirements for short range devices UK Statutory Instrument 2012 No. 3032 and European Union 2011/65/EU RoHS, compliant with: EN IEC 63000; Technical documentation UK Statutory Instrument 2017 No. 1206 and European Union 2014/53/EU Radio Equipment Directive, compliant with: EN 300 330 V2.1.1; Radio requirements for short range devices

Table 5. Certifications - PointMax EtherNet/IP Adapter (continued)

Certification⁽¹⁾	5034-AENTR, 5034-AENTRXT
RCM	Australian Radiocommunications Act, compliant with: EN 61000-6-4; Industrial Emissions
Ex	UK Statutory Instrument 2016 No. 1107 and European Union 2014/34/EU ATEX Directive, compliant with: EN IEC 60079-0; General Requirements EN IEC 60079-7; Explosive Atmospheres, Protection "e" II 3 G Ex ec IIC T4 Gc UL 24 ATEX 3272X and UL24UKEX2997X
IECEx	IECEx System, compliant with: IEC 60079-0; General Requirements IEC 60079-7; Explosive Atmospheres, Protection "e" II 3 G Ex ec IIC T4 Gc IECEx UL 24.0066X
FCC	FCC Part 15B Class A
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 4
Morocco	Arrêté ministériel n° 6404-15 du 1 ^{er} muharram 1437 Arrêté ministériel n° 6404-15 du 29 ramadan 1436
CCC	CNCA-C23-01 强制性产品认证实施规则 防爆电气 CNCA-C23-01 CCC Implementation Rule Explosion-Proof Electrical Products 2025122309123247
EtherNet/IP	ODVA conformance tested to EtherNet/IP specifications

(1) When marked. See the Product Certifications website at rok.auto/certifications for declarations of conformity, certificates, and other certification details.

Mounting Bases

Module Type	Catalog Number	Description
Mounting Base	5034-MB, 5034-MBXT	Mounting base – 15 mm (0.59 in.)
	5034-MBSA, 5034-MBSAXT	Mounting base – 15 mm (0.59 in.) with SA power

Environmental specifications and certifications for PointMax mounting bases are provided in [Environmental Specifications and Certifications on page 14](#).

5034-MB and 5034-MBXT Mounting Bases

Figure 6. 5034-MB Diagram

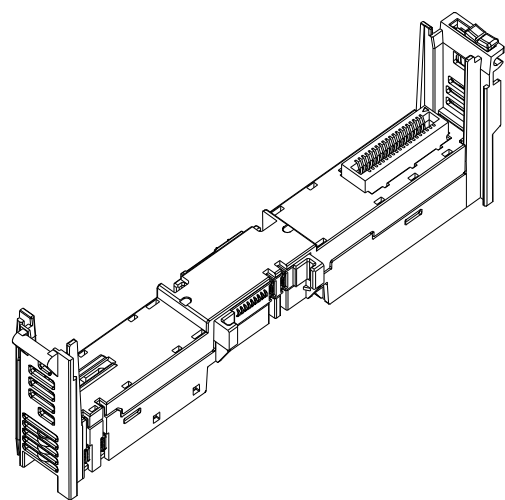


Table 6. General Specifications - 5034-MB, 5034-MBXT

Attribute	5034-MB, 5034-MBXT
SA power, operating voltage, nom	Passthrough
SA power, operating voltage range	Passthrough
SA power, current, max	Passthrough
Power dissipation, max	0.5 W
Isolation voltage	250V (continuous), Basic Insulation Type, SA to backplane
Dimensions (HxWxD), approx Without I/O module	132 x 15 x 43 mm (5.2 x 0.59 x 1.69 in.)
Weight, approx	34 g (1.20 oz.) – 5034-MB 35 g (1.23 oz.) – 5034-MBXT
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

5034-MBSA and 5034-MBSAXT Mounting Bases with SA Power

Figure 7. 5034-MBSA Wiring Diagram

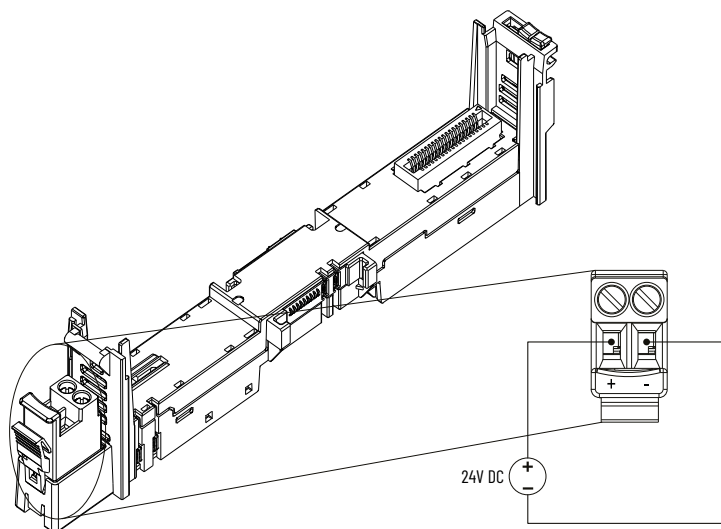


Table 7. General Specifications - 5034-MBSA, 5034-MBSAXT

Attribute	5034-MBSA, 5034-MBSAXT
SA power, operating voltage, nom	24V DC, SELV
SA power, operating voltage range	10...30V DC, SELV
SA power, current, max	10 A
Power dissipation, max	0.5 W
Isolation voltage	250V (continuous), Basic Insulation Type, SA to backplane
RTB supported	An RTB ships with the product. You can order additional screw-type (5034-RTB2-QTY5) and push-in spring-type (5034-RTB2S-QTY5) separately.
Wiring category ⁽¹⁾	2 - Power ports
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Dimensions (HxWxD), approx Without I/O module	149 x 15 x 43 mm (5.87 x 0.59 x 1.69 in.)
Weight, approx	37 g (1.30 oz.) - 5034-MBSA 38 g (1.34 oz.) - 5034-MBSAXT
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

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

Environmental Specifications and Certifications

The following tables provide the environmental specifications and certifications for the PointMax mounting bases.

Table 8. Environmental Specifications - PointMax Mounting Bases

Attribute	5034-MB, 5034-MBSA	5034-MBXT, 5034-MBSAXT
Temperature, operating	IEC 60068-2-1 (Test Ae, Operating Cold), IEC 60068-2-2 (Test Be, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -25 °C ≤ Ta ≤ +60 °C (-13 °F ≤ Ta ≤ +140 °F) for horizontal orientation -25 °C ≤ Ta ≤ +55 °C (-13 °F ≤ Ta ≤ +131 °F) for other orientations	
Temperature, surrounding air, max	60 °C (140 °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)	
Relative humidity	IEC 60068-2-30 (Test Db, Unpackaged Damp Heat): 5...95% noncondensing	
Conformal coated	No	Yes
Corrosive Atmosphere - ASTM B845-97 Method K Accelerated Test (30-Day Exposure) - Plus additional Rockwell Automation proprietary accelerated corrosive environment test protocol for specific industries with sources of gaseous sulfur compounds.	—	Severity Level GX ⁽¹⁾ per ANSI/ISA 71.04-2013, Airborne Contaminants—Gases Severity Level CX per IEC 60721-3-3:2019, Chemically Active Substances
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	
Repetitive shock, operating	IEC 60068-2-27, 25 g, 6 ms duration, 1000 shocks in each ± direction in each 3 axis	
Shock, nonoperating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 50 g	

(1) Up to 2100 angstroms of film growth per 30 days of copper and/or silver reactivity.

Table 9. Certifications - PointMax Mounting Bases

Certification ⁽¹⁾	5034-MB, 5034-MBXT, 5034-MBSA, 5034-MBSAXT
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E322657. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E334470.

Table 9. Certifications - PointMax Mounting Bases (continued)

Certification⁽¹⁾	5034-MB, 5034-MBXT, 5034-MBSA, 5034-MBSAXT
UK and CE	UK Statutory Instrument 2016 No. 1091 and European Union 2014/30/EU EMC Directive, compliant with: EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) UK Statutory Instrument 2016 No. 1101 and European Union 2014/35/EU LVD, compliant with: EN 61010-2-201; Control Equipment Safety Requirements UK Statutory Instrument 2012 No. 3032 and European Union 2011/65/EU RoHS, compliant with: EN IEC 63000; Technical documentation
RCM	Australian Radiocommunications Act, compliant with: EN 61000-6-4; Industrial Emissions
Ex	UK Statutory Instrument 2016 No. 1107 and European Union 2014/34/EU ATEX Directive, compliant with: EN IEC 60079-0; General Requirements EN IEC 60079-7; Explosive Atmospheres, Protection "e" II 3 G Ex ec IIC T4 Gc UL 24 ATEX 3272X and UL24UKEX2997X
IECEx	IECEx System, compliant with: IEC 60079-0; General Requirements IEC 60079-7; Explosive Atmospheres, Protection "e" II 3 G Ex ec IIC T4 Gc IECEx UL 24.0066X
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 4
Morocco	Arrêté ministériel n° 6404-15 du 1 er muharram 1437 Arrêté ministériel n° 6404-15 du 29 ramadan 1436

(1) When marked. See the Product Certifications website at rok.auto/certifications for declarations of conformity, certificates, and other certification details.

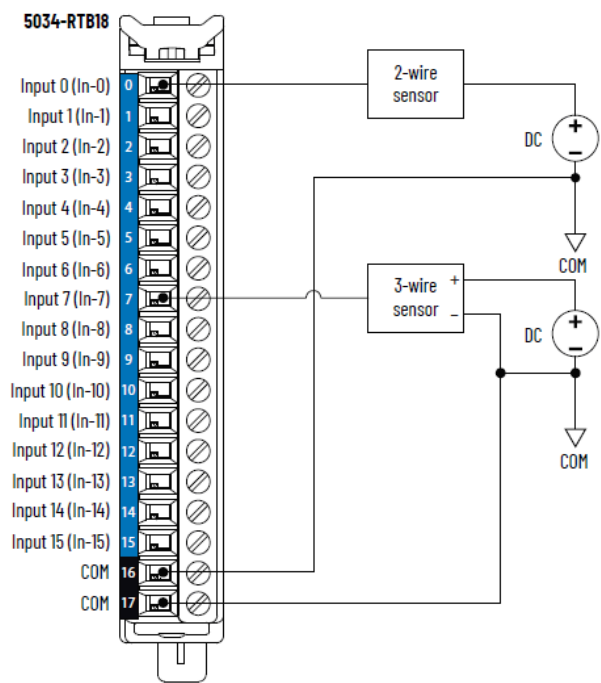
Digital I/O Modules

I/O Type	Catalog Number	Description
Digital Input	5034-IB16, 5034-IB16XT	Digital 16 input module
	5034-IB8, 5034-IB8XT	Digital 8 input module
Digital Output	5034-OB16, 5034-OB16XT	Digital 16 output module
	5034-OB8, 5034-OB8XT	Digital 8 output module
Relay Output	5034-OW4I, 5034-OW4IXT	Relay 4 output isolated 2 A module

Environmental specifications and certifications for PointMax digital I/O modules are provided in [Environmental Specifications and Certifications on page 33](#).

5034-IB16 and 5034-IB16XT Digital 16 Input Modules

Figure 8. 5034-IB16 and 5034-IB16XT Wiring Diagram



To establish more COM connections, install a 5034-MBPTM or 5034-MBPTMX next to the module.

Figure 9. 5034-IB16 and 5034-IB16XT Functional Block Diagram

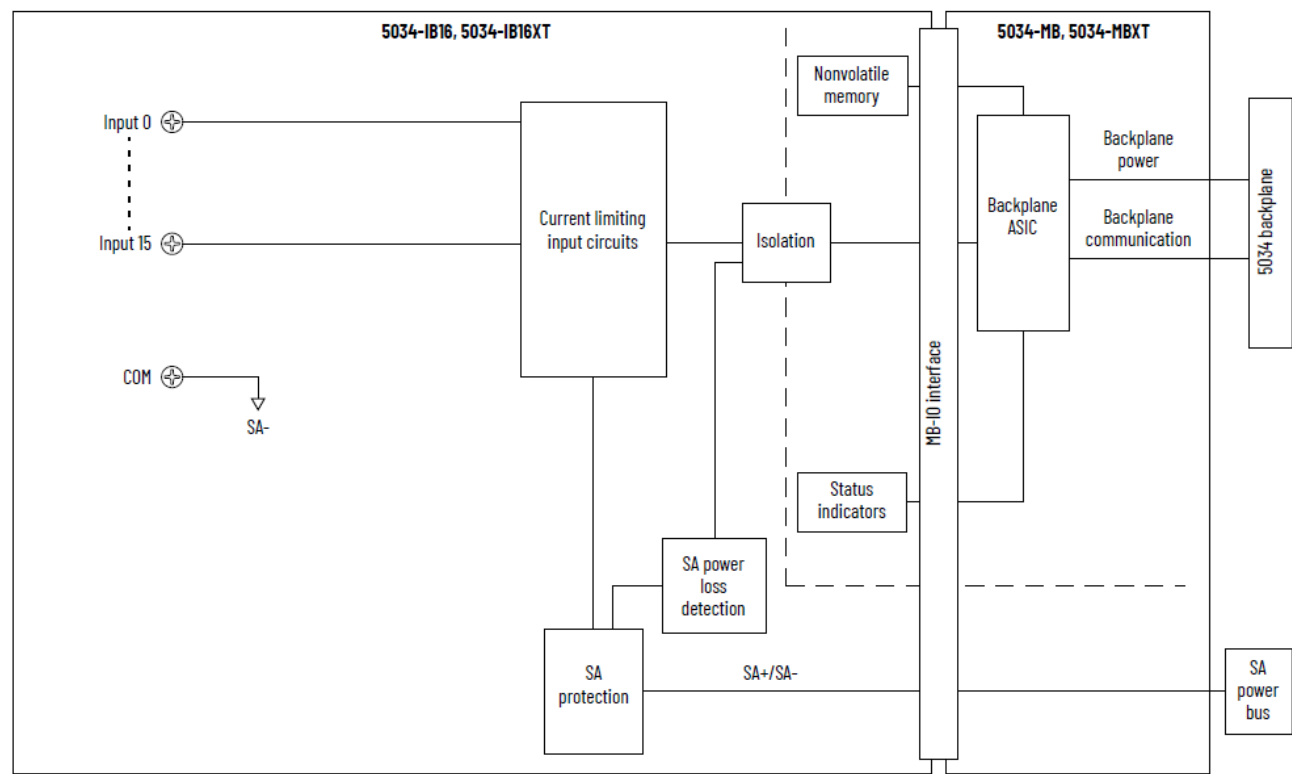


Table 10. Technical Specifications - 5034-IB16, 5034-IB16XT

Attribute	5034-IB16, 5034-IB16XT
On-state voltage range	10...30V DC
On-state current, min	2 mA
On-state current, nom	2.4 mA
On-state current, max	2.8 mA
Off-state voltage, max	5V DC
Off-state current, max	1.5 mA
Input impedance, min	3.57 kΩ @ 10V DC
Input impedance, nom	10 kΩ @ 24V DC
Input impedance, max	15 kΩ @ 30V DC
Input delay time (screw to backplane), max Off-to-On On-to-Off	150 μs
Input pulse width, min Off-to-On On-to-Off	125 μs
Input filter time Off-to-On On-to-Off	0 μs, 100 μs, 200 μs, 500 μs, 1 ms (default), 2 ms, 5 ms, 10 ms, 20 ms, 50 ms

Table 10. Technical Specifications - 5034-IB16, 5034-IB16XT (continued)

Attribute	5034-IB16, 5034-IB16XT
Pulse and period measurements	Not supported
Simple counters, counter frequency	0...f _{max} = 4000 Hz 4 (with 12 points as standard inputs) or 8 (with 8 points as standard inputs) Point 0...7 only
Timestamp of inputs	Yes, ±100 µs accuracy
CIP Sync	Yes, slave only ordinary clock

Table 11. General Specifications - 5034-IB16, 5034-IB16XT

Attribute	5034-IB16, 5034-IB16XT
Number of inputs	16 channels (1 group of 16), sinking
Voltage category	12/24V DC sink
Input voltage, nom	24V DC
Input voltage range	10...30V DC
SA power voltage, nom	24V DC
SA power voltage range	10...30V DC
SA power current, nom	20 mA
SA power current, max	0.1 A
SA power current at no load	10 mA
SA reverse polarity protection	Yes
Power dissipation, max ⁽¹⁾	1.45 W
Thermal dissipation, max ⁽¹⁾	4.95 BTU/hr
Isolation voltage	250V (continuous), Basic Insulation Type, System to Field No isolation between SA power and inputs No isolation between individual inputs
RIUP support	Yes
Module to base keying	Electronic keying via programming software
RTB keying	Slot 1, Slot 4, Slot 11
RTB supported	5034-RTB18, 5034-RTB18S
Wiring category ⁽²⁾	2 - Signal ports 2 - Power ports
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Indicators	1 green/red module status indicator 1 green/red SA power status indicator 16 yellow I/O status indicators
Dimensions (HxWxD), approx	123.6 x 15.0 x 66.4 mm (4.87 x 0.59 x 2.61 in.)

Table 11. General Specifications - 5034-IB16, 5034-IB16XT (continued)

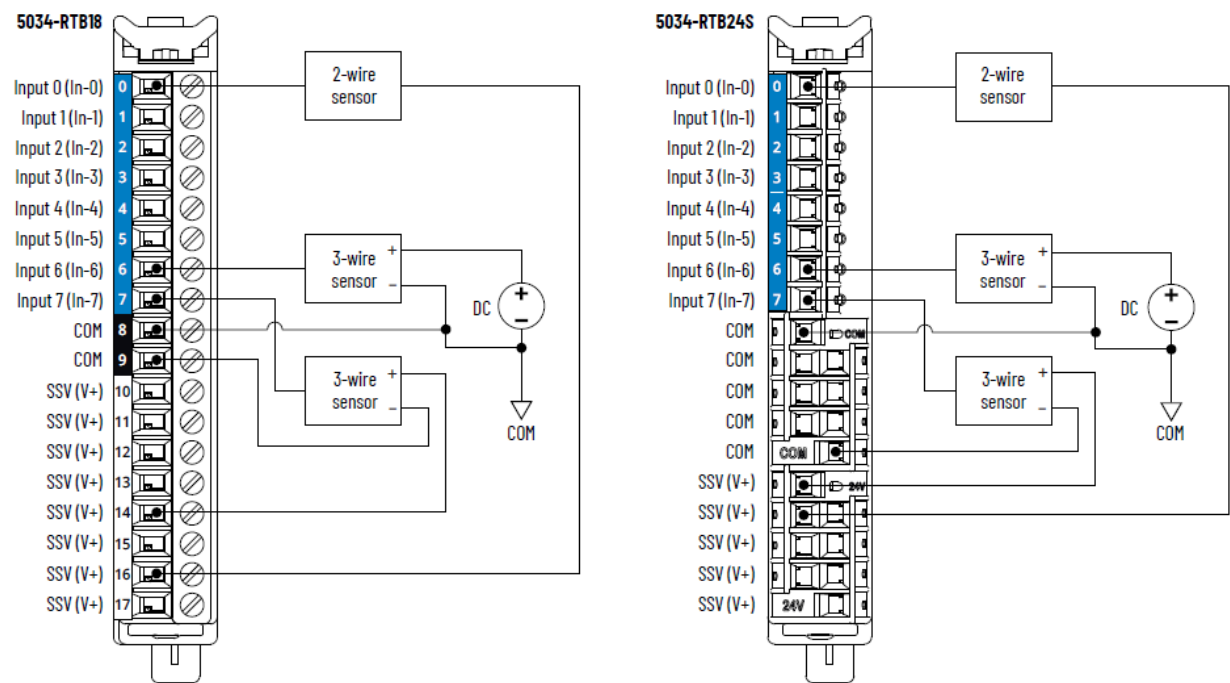
Attribute	5034-IB16, 5034-IB16XT
Weight, approx	43.0 g (1.52 oz.) - 5034-IB16 45.0 g (1.59 oz.) - 5034-IB16XT
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEX temp code	T4

(1) Value is measured at 60 °C (140 °F). Power dissipation varies with temperature.

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

5034-IB8 and 5034-IB8XT Digital 8 Input Modules

Figure 10. 5034-IB8 and 5034-IB8XT Wiring Diagram



To establish more COM/V+ connections, use a 5034-RTB24S, or install a 5034-MBPTM or 5034-MBPTMXT next to the module.

Figure 11. 5034-IB8 and 5034-IB8XT Functional Block Diagram

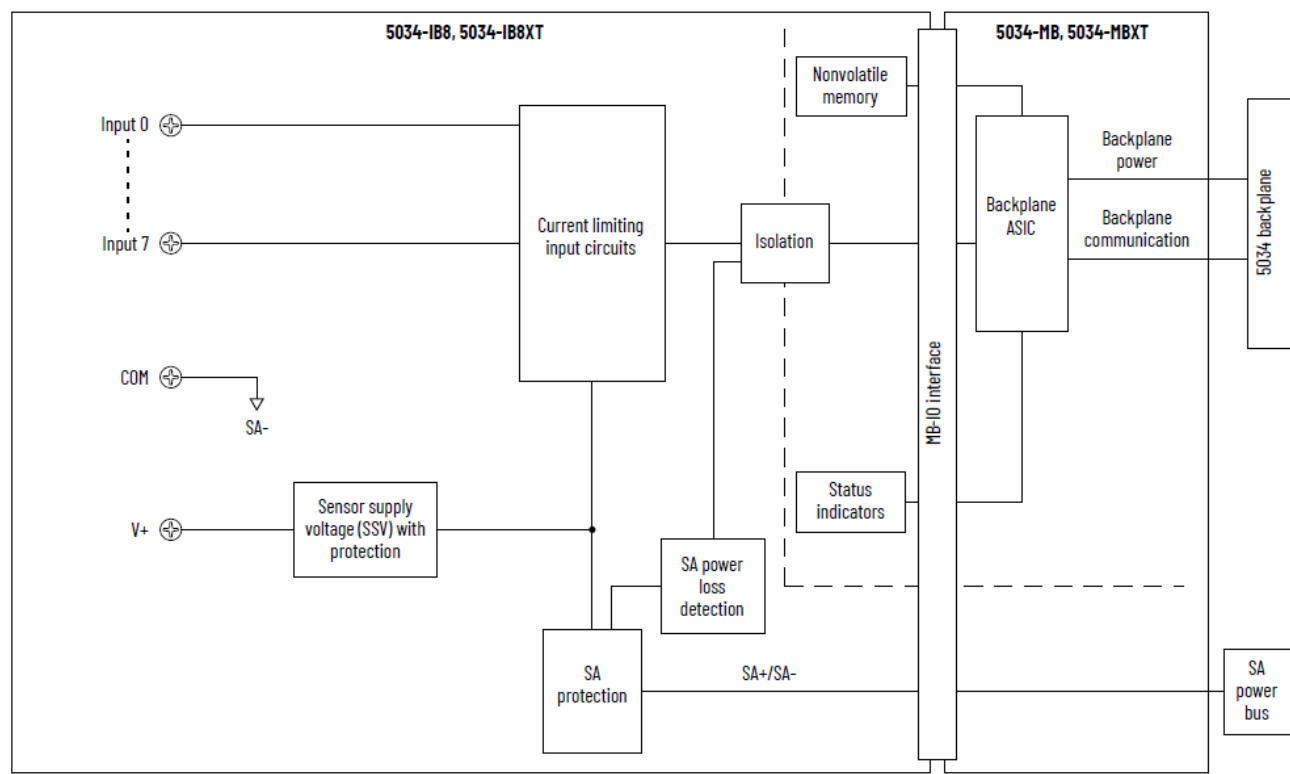


Table 12. Technical Specifications - 5034-IB8, 5034-IB8XT

Attribute	5034-IB8, 5034-IB8XT
On-state voltage range	10...30V DC
On-state current, min	2 mA
On-state current, nom	2.4 mA
On-state current, max	2.8 mA
Off-state voltage, max	5V DC
Off-state current, max	1.5 mA
Input impedance, min	3.57 kΩ @ 10V DC
Input impedance, nom	10 kΩ @ 24V DC
Input impedance, max	15 kΩ @ 30V DC
Input delay time (screw to backplane), max Off-to-On On-to-Off	150 μs
Input pulse width, min Off-to-On On-to-Off	125 μs
Input filter time Off-to-On On-to-Off	0 μs, 100 μs, 200 μs, 500 μs, 1 ms (default), 2 ms, 5 ms, 10 ms, 20 ms, 50 ms

Table 12. Technical Specifications - 5034-IB8, 5034-IB8XT (continued)

Attribute	5034-IB8, 5034-IB8XT
Pulse and period measurements	Not supported
Simple counters, counter frequency	0...f _{max} = 4000 Hz 4 (with 4 points as standard inputs) Point 0...3 only
Timestamp of inputs	Yes, ±100 µs accuracy
CIP Sync	Yes, slave only ordinary clock

Table 13. General Specifications - 5034-IB8, 5034-IB8XT

Attribute	5034-IB8, 5034-IB8XT
Number of inputs	8 channels (1 group of 8), sinking
Voltage category	12/24V DC sink
Input voltage, nom	24V DC
Input voltage range	10...30V DC
SA power voltage, nom	24V DC
SA power voltage range	10...30V DC
SA power current, nom	250 mA
SA power current, max	0.3 A
SA power current at no load	10 mA
SA reverse polarity protection	Yes
SSV voltage range	Follow SA supply
SSV current, max	0.2 A
SSV short-circuit protection	Yes
Power dissipation, max ⁽¹⁾	1.15 W
Thermal dissipation, max ⁽¹⁾	3.92 BTU/hr
Isolation voltage	250V (continuous), Basic Insulation Type, System to Field No isolation between SA power and inputs No isolation between individual inputs
RIUP support	Yes
Module to base keying	Electronic keying via programming software
RTB keying	Slot 1, Slot 4, Slot 8
RTB supported	5034-RTB18, 5034-RTB18S, 5034-RTB24S
Wiring category ⁽²⁾	2 - Signal ports 2 - Power ports
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91

Table 13. General Specifications - 5034-IB8, 5034-IB8XT (continued)

Attribute	5034-IB8, 5034-IB8XT
Indicators	1 green/red module status indicator 1 green/red SA power status indicator 8 yellow I/O status indicators
Dimensions (HxWxD), approx	123.6 x 15.0 x 66.4 mm (4.87 x 0.59 x 2.61 in.)
Weight, approx	43.0 g (1.52 oz.) - 5034-IB8 46.0 g (1.62 oz.) - 5034-IB8XT
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

(1) Value is measured at 60 °C (140 °F). Power dissipation varies with temperature.

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

5034-OB16 and 5034-OB16XT Digital 16 Output Modules

Figure 12. 5034-OB16 and 5034-OB16XT Wiring Diagram

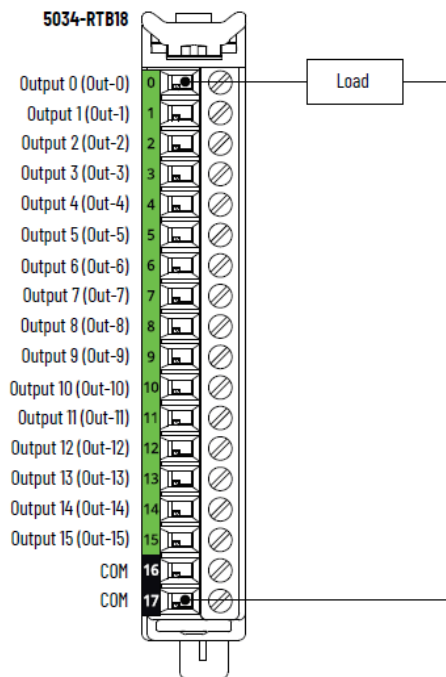


Figure 13. 5034-OB16 and 5034-OB16XT Functional Block Diagram

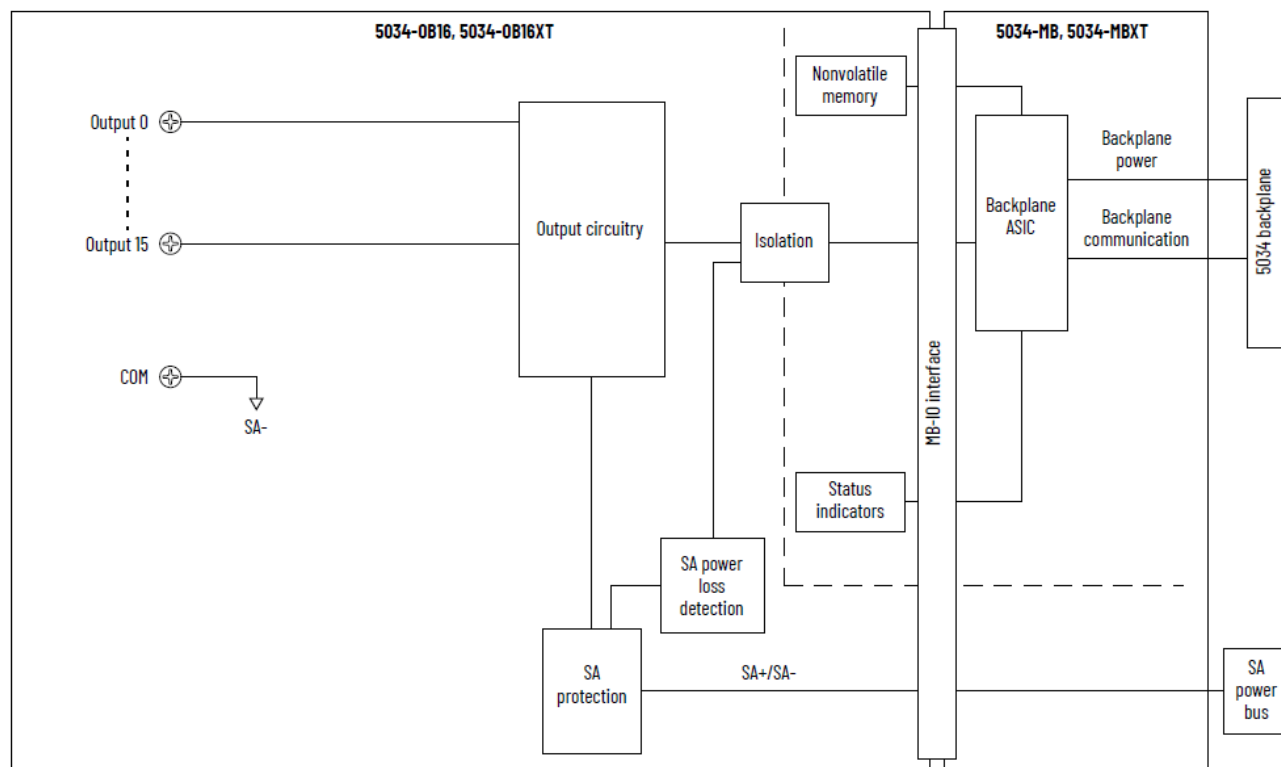


Table 14. Technical Specifications - 5034-OB16, 5034-OB16XT

Attribute	5034-OB16, 5034-OB16XT
On-state voltage range	10...30V DC
On-state voltage drop, max	0.25V DC
On-state current per point, min	1 mA
Off-state voltage, max Off-state open wire detection disabled	5V DC with 1 mA min load
Off-state voltage, max Off-state open wire detection enabled	5V DC with 5 mA min load
Off-state leakage current per point, max Off-state open wire detection disabled	0.05 mA
Off-state leakage current per point, max ⁽¹⁾ Off-state open wire detection enabled	0.5 mA
Output current rating per point, max	0.5 A
Output current rating per module, max	5 A
Surge current per point, max	1.5 A for 10 ms, repeatable every 3 s
Fast inductive load turn-off	Yes
Inductive load allowed, max	1.2 H
Output clamping voltage for inductive load when turn off	SA voltage - 44V Typical is -20V when SA voltage is 24V

Table 14. Technical Specifications - 5034-OB16, 5034-OB16XT (continued)

Attribute	5034-OB16, 5034-OB16XT
Output delay time (backplane to screw), max Off-to-On On-to-Off	120 μ s @ 0.5 A
Pulse width, min	200 μ s
Open load detection diagnostics	Yes, configurable (Default is off)
Output short circuit/overload detection	Yes
Output short circuit/overload protection	Yes
Pilot duty rating	1.5 A inrush current, 0.5 A rated current, DC-14
Output states in program mode per point	Hold Last State On Off (Default)
Output states in fault mode per point	Hold Last State On Off (Default)
Duration of fault mode per point	1 s 2 s 5 s 10 s Forever (Default)
Output final state after fault mode per point	On Off (Default)
Scheduled outputs	Supported, accuracy ± 100 μ s
CIP Sync	Yes, slave only ordinary clock

(1) Recommended Loading Resistor - To limit the effects of leakage current through solid-state outputs, you can connect a loading resistor in parallel with your load. For 24V DC operation, use a 5.6 k Ω , 0.5 W resistor for transistor operation.

Table 15. General Specifications - 5034-OB16, 5034-OB16XT

Attribute	5034-OB16, 5034-OB16XT
Number of outputs	16 channels (1 group of 16), sourcing
Voltage category	24V DC source
Output voltage, nom	24V DC
Output voltage range	10...30V DC
SA power voltage, nom	24V DC
SA power voltage range	10...30V DC
SA power current, nom	5.1 A
SA power current, max	5.2 A
SA power current at no load	13 mA
SA reverse polarity protection	Yes

Table 15. General Specifications - 5034-OB16, 5034-OB16XT (continued)

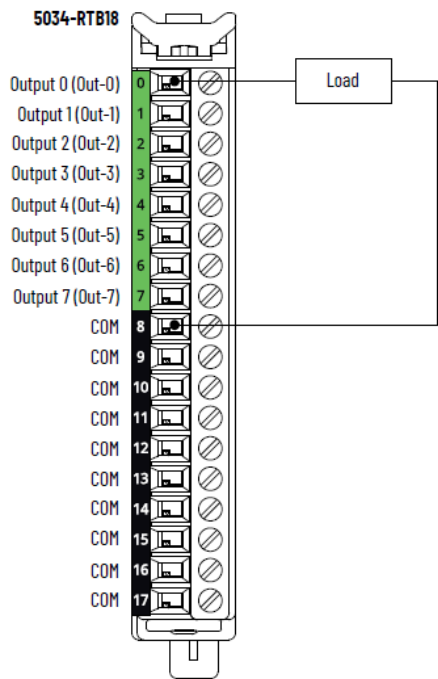
Attribute	5034-OB16, 5034-OB16XT
Power dissipation, max ⁽¹⁾	1.02 W
Thermal dissipation, max ⁽¹⁾	3.48 BTU/hr
Isolation voltage	250V (continuous), Basic Insulation Type, System to Field No isolation between SA power and outputs No isolation between individual outputs
RIUP support	Yes
Module to base keying	Electronic keying via programming software
RTB keying	Slot 1, Slot 5, Slot 11
RTB supported	5034-RTB18, 5034-RTB18S
Wiring category ⁽²⁾	2 - Signal ports 2 - Power ports
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Indicators	1 green/red module status indicator 1 green/red SA power status indicator 16 yellow/red I/O status indicators
Dimensions (HxWxD), approx	123.6 x 15.0 x 66.4 mm (4.87 x 0.59 x 2.61 in.)
Weight, approx	43.0 g (1.52 oz.) - 5034-OB16 45.0 g (1.59 oz.) - 5034-OB16XT
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

(1) Value is measured at 60 °C (140 °F). Power dissipation varies with temperature.

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

5034-OB8 and 5034-OB8XT Digital 8 Output Modules

Figure 14. 5034-OB8 and 5034-OB8XT Wiring Diagram



For wiring related to COM pins, see the PointMax Digital I/O Modules User Manual, publication [5034-UM002](#).

Figure 15. 5034-OB8 and 5034-OB8XT Functional Block Diagram

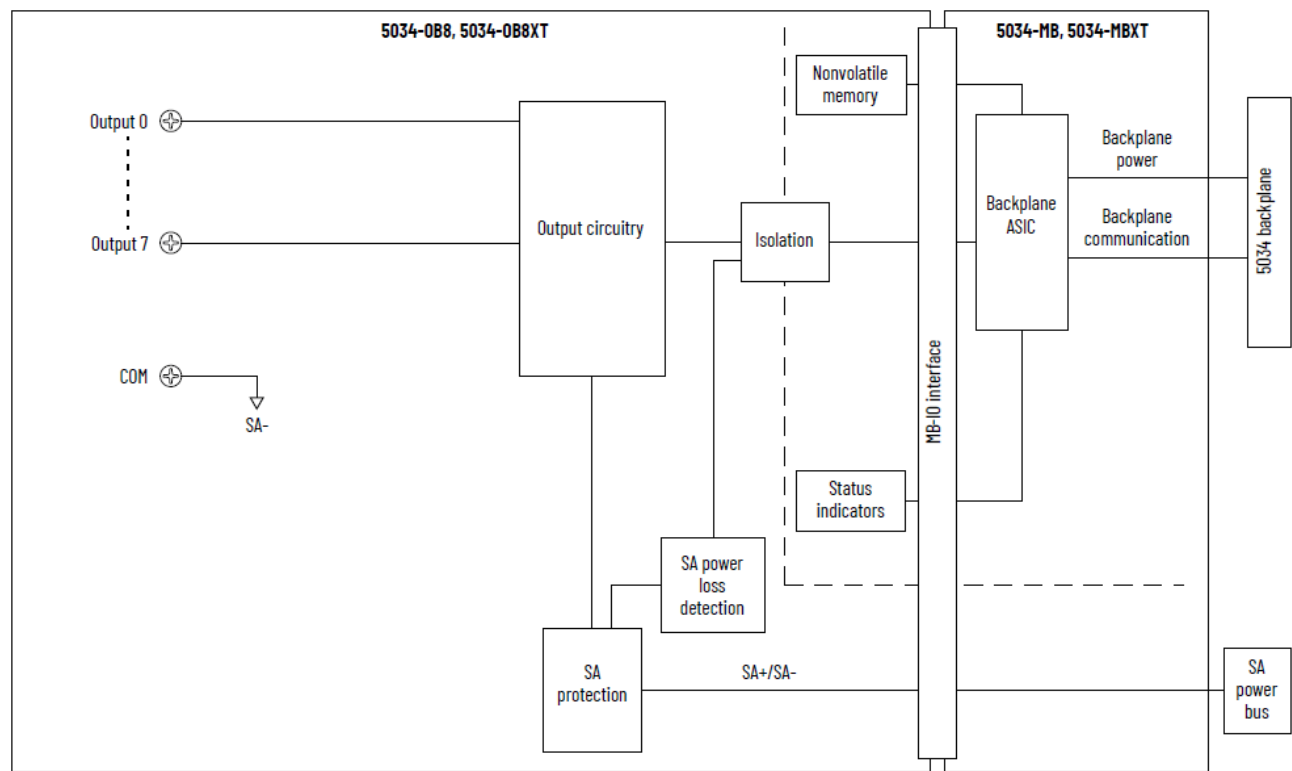


Table 16. Technical Specifications - 5034-0B8, 5034-0B8XT

Attribute	5034-0B8, 5034-0B8XT
On-state voltage range	10...30V DC
On-state voltage drop, max	0.25V DC
On-state current per point, min	1 mA
Off-state voltage, max Off-state open wire detection disabled	5V DC with 1 mA min load
Off-state voltage, max Off-state open wire detection enabled	5V DC with 5 mA min load
Off-state leakage current per point, max Off-state open wire detection disabled	0.05 mA
Off-state leakage current per point, max ⁽¹⁾ Off-state open wire detection enabled	0.5 mA
Output current rating per point, max	0.5 A
Output current rating per module, max	4 A
Surge current per point, max	1.5 A for 10 ms, repeatable every 3 s
Fast inductive load turn-off	Yes
Inductive load allowed, max	1.2 H
Output clamping voltage for inductive load when turn off	SA voltage – 44V Typical is ~20V when SA voltage is 24V
Output delay time (backplane to screw), max Off-to-On On-to-Off	120 µs @ 0.5 A
Pulse width, min	200 µs
Open load detection diagnostics	Yes, configurable (Default is off)
Output short circuit/overload detection	Yes
Output short circuit/overload protection	Yes
Pilot duty rating	1.5 A inrush current, 0.5 A rated current, DC-14
Output states in program mode per point	Hold Last State On Off (Default)
Output states in fault mode per point	Hold Last State On Off (Default)
Duration of fault mode per point	1 s 2 s 5 s 10 s Forever (Default)
Output final state after fault mode per point	On Off (Default)

Table 16. Technical Specifications - 5034-0B8, 5034-0B8XT (continued)

Attribute	5034-0B8, 5034-0B8XT
Scheduled outputs	Supported, accuracy $\pm 100 \mu\text{s}$
CIP Sync	Yes, slave only ordinary clock

(1) Recommended Loading Resistor - To limit the effects of leakage current through solid-state outputs, you can connect a loading resistor in parallel with your load. For 24V DC operation, use a 5.6 k Ω , 0.5 W resistor for transistor operation.

Table 17. General Specifications - 5034-0B8, 5034-0B8XT

Attribute	5034-0B8, 5034-0B8XT
Number of outputs	8 channels (1 group of 8), sourcing
Voltage category	24V DC source
Output voltage, nom	24V DC
Output voltage range	10...30V DC
SA power voltage, nom	24V DC
SA power voltage range	10...30V DC
SA power current, nom	4.1 A
SA power current, max	4.2 A
SA power current at no load	12 mA
SA reverse polarity protection	Yes
Power dissipation, max ⁽¹⁾	0.91 W
Thermal dissipation, max ⁽¹⁾	3.11 BTU/hr
Isolation voltage	250V (continuous), Basic Insulation Type, System to Field No isolation between SA power and outputs No isolation between individual outputs
RIUP support	Yes
Module to base keying	Electronic keying via programming software
RTB keying	Slot 1, Slot 5, Slot 11
RTB supported	5034-RTB18, 5034-RTB18S
Wiring category ⁽²⁾	2 - Signal ports 2 - Power ports
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Indicators	1 green/red module status indicator 1 green/red SA power status indicator 8 yellow/red I/O status indicators
Dimensions (HxWxD), approx	123.6 x 15.0 x 66.4 mm (4.87 x 0.59 x 2.61 in.)
Weight, approx	43.0 g (1.52 oz.) - 5034-0B8 45.0 g (1.59 oz.) - 5034-0B8XT
Enclosure type	None (Open-style)

Table 17. General Specifications - 5034-0B8, 5034-0B8XT (continued)

Attribute	5034-0B8, 5034-0B8XT
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

(1) Value is measured at 60 °C (140 °F). Power dissipation varies with temperature.

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

5034-0W4I and 5034-0W4IXT Relay 4 Output Isolated 2 A Modules

Figure 16. 5034-0W4I and 5034-0W4IXT Wiring Diagram

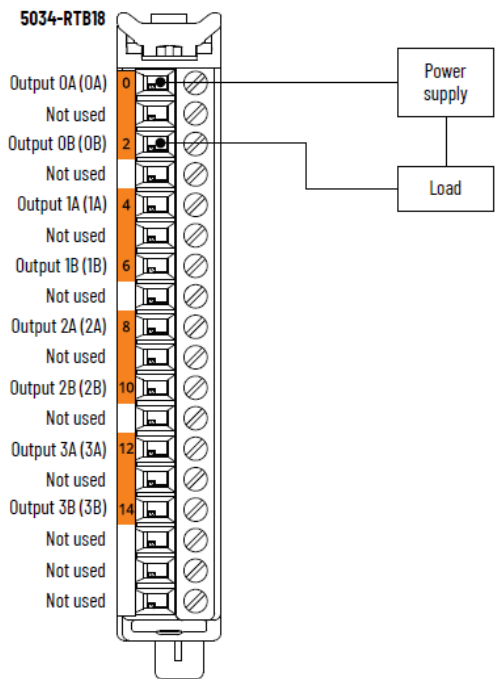


Figure 17. 5034-0W4I and 5034-0W4IXT Functional Block Diagram

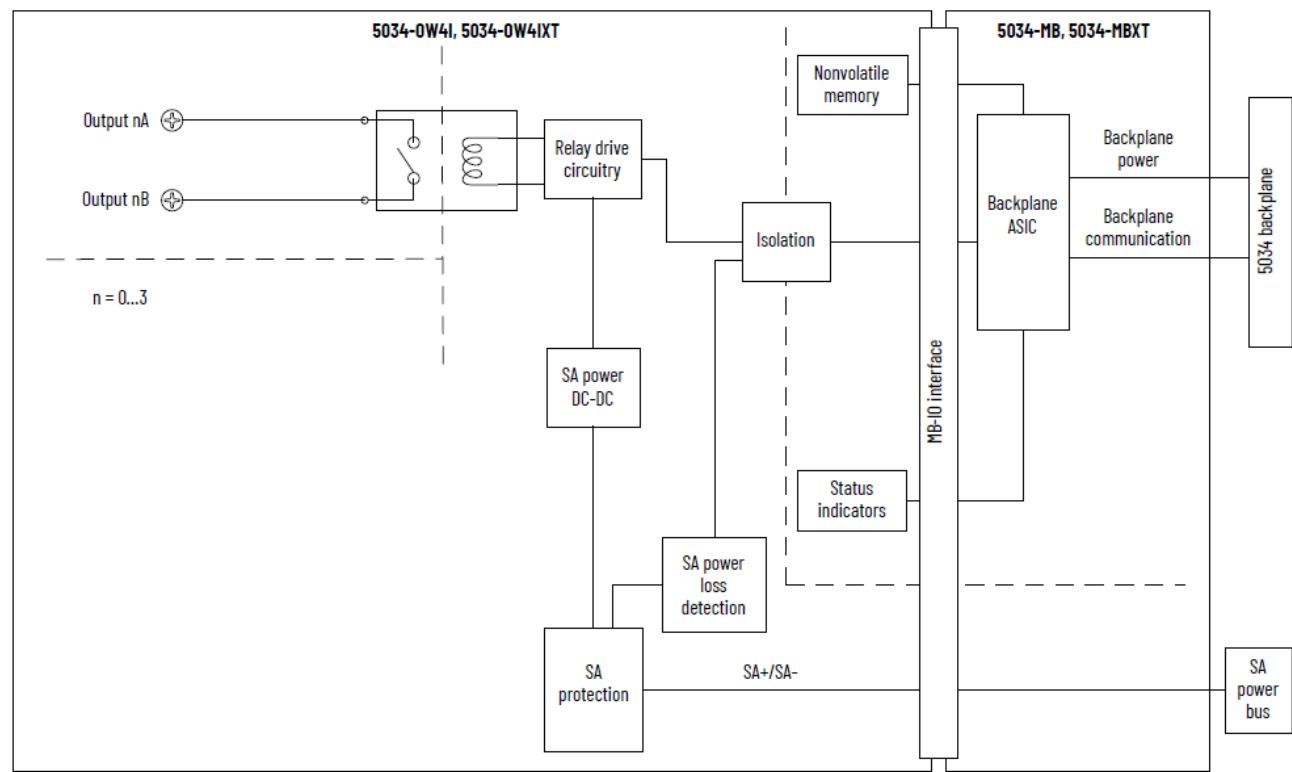


Table 18. Technical Specifications - 5034-0W4I, 5034-0W4IXT

Attribute	5034-0W4I, 5034-0W4IXT
Relay rating ⁽¹⁾	2 A resistive/channel @ 5...30V DC 2 A resistive/channel @ 120V AC, 50/60 Hz 2 A resistive/channel @ 240V AC, 50/60 Hz
Off-state leakage	0 mA Dry contact, no onboard snubbers
Output current rating, max	2 A resistive/channel @ 5...30V DC 2 A resistive/channel @ 120V AC, 50/60 Hz 2 A resistive/channel @ 240V AC, 50/60 Hz
Output delay time (backplane to screw), max Off-to-On On-to-Off	10 ms
Initial contact resistance, max	30 mΩ
Output states in program mode per point	Hold Last State On Off (Default)
Output states in fault mode per point	Hold Last State On Off (Default)

Table 18. Technical Specifications - 5034-0W4I, 5034-0W4IXT (continued)

Attribute	5034-0W4I, 5034-0W4IXT
Duration of fault mode per point	1 s 2 s 5 s 10 s Forever (Default)
Output final state after fault mode per point	On Off (Default)
On-state current per point, min	100 μ A @ 100 mV DC
Switching frequency, max	1 operation/3 sec (0.3 Hz @ rated load)
Expected contact life, electrical	2 A, 240V AC (resistive): Min 1×10^5 operating cycles (@ 20 times/min) 2 A, 30V DC (resistive): Min 1×10^5 operating cycles (@ 20 times/min)
Expected contact life, mechanical	Min 2×10^7 operating cycles (@ 180 times/min)
Pilot duty rating	5...240V AC, 50/60 Hz, C300 pilot duty per channel 5...125V DC, R150 pilot duty per channel

(1) Surge Suppression - Connecting surge suppressors across your external inductive load extends the life of the module. For additional details, see the Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

Table 19. General Specifications - 5034-0W4I, 5034-0W4IXT

Attribute	5034-0W4I, 5034-0W4IXT
Number of outputs	4 Form A (normally open)
Output voltage range	5...30V DC 5...240V AC
SA power voltage, nom	24V DC
SA power voltage range	10...30V DC
SA power current, nom	100 mA
SA power current, max	200 mA
SA power current at no load	3.0 mA
SA reverse polarity protection	Yes
Power dissipation, max ⁽¹⁾	0.74 W
Thermal dissipation, max ⁽¹⁾	2.52 BTU/hr
Isolation voltage	250V (continuous), Basic Insulation Type, System to SA 250V (continuous), Reinforced Insulation Type, System to Channel 250V (continuous), Reinforced Insulation Type, SA to Channel 250V (continuous), Reinforced Insulation Type, Channel to Channel
RIUP support	Yes
Module to base keying	Electronic keying via programming software
RTB keying	Slot 7, Slot 12, Slot 15
RTB supported	5034-RTB18, 5034-RTB18S

Table 19. General Specifications - 5034-0W4I, 5034-0W4IXT (continued)

Attribute	5034-0W4I, 5034-0W4IXT
Wiring category ⁽²⁾	2 - Signal ports 2 - Power ports
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Indicators	1 green/red module status indicator 1 green/red SA power status indicator 4 yellow I/O status indicators
Dimensions (HxWxD), approx	123.6 x 15.0 x 66.4 mm (4.87 x 0.59 x 2.61 in.)
Weight, approx	53.0 g (1.87 oz.) - 5034-0W4I 55.0 g (1.94 oz.) - 5034-0W4IXT
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

(1) Value is measured at 60 °C (140 °F). Power dissipation varies with temperature.

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

Environmental Specifications and Certifications

The following tables provide the environmental specifications and certifications for the PointMax digital I/O modules.

Table 20. Environmental Specifications - PointMax Digital I/O Modules

Attribute	5034-IB16, 5034-IB8, 5034-OB16, 5034-OB8, 5034-OW4I	5034-IB16XT, 5034-IB8XT, 5034-OB16XT, 5034-OB8XT, 5034-OW4IXT
Temperature, operating	IEC 60068-2-1 (Test Ae, Operating Cold), IEC 60068-2-2 (Test Be, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -25 °C ≤ Ta ≤ +60 °C (-13 °F ≤ Ta ≤ +140 °F) for horizontal orientation -25 °C ≤ Ta ≤ +55 °C (-13 °F ≤ Ta ≤ +131 °F) for other orientations	
Temperature, surrounding air, max	60 °C (140 °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)	
Relative humidity	IEC 60068-2-30 (Test Db, Unpackaged Damp Heat): 5...95% noncondensing	
Conformal coated	No	Yes
Corrosive Atmosphere - ASTM B845-97 Method K Accelerated Test (30-Day Exposure) - Plus additional Rockwell Automation proprietary accelerated corrosive environment test protocol for specific industries with sources of gaseous sulfur compounds.	—	Severity Level GX ⁽¹⁾ per ANSI/ISA 71.04-2013, Airborne Contaminants—Gases Severity Level CX per IEC 60721-3-3:2019, Chemically Active Substances
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	
Repetitive shock, operating	IEC 60068-2-27, 25 g, 6 ms duration, 1000 shocks in each ± direction in each 3 axis	
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	
Radiated RF immunity	IEC 61000-4-3: 10V/m with 1 kHz sine wave 80% AM from 80...2000 MHz 10V/m with 1 kHz sine wave 80% AM from 2000...2700 MHz 10V/m with 1 kHz sine wave 80% AM from 2700...6000 MHz	

Table 20. Environmental Specifications - PointMax Digital I/O Modules (continued)

Attribute	5034-IB16, 5034-IB8, 5034-OB16, 5034-OB8, 5034-OW4I	5034-IB16XT, 5034-IB8XT, 5034-OB16XT, 5034-OB8XT, 5034-OW4IXT
EFT/B immunity	IEC 61000-4-4: ±3 kV @ 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	

(1) Up to 2100 angstroms of film growth per 30 days of copper and/or silver reactivity.

Table 21. Certifications - PointMax Digital I/O Modules

Certification ⁽¹⁾	5034-IB16, 5034-IB16XT, 5034-IB8, 5034-IB8XT, 5034-OB16, 5034-OB16XT, 5034-OB8, 5034-OB8XT, 5034-OW4I, 5034-OW4IXT
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E322657. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E334470.
UK and CE	UK Statutory Instrument 2016 No. 1091 and European Union 2014/30/EU EMC Directive, compliant with: EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) UK Statutory Instrument 2016 No. 1101 and European Union 2014/35/EU LVD, compliant with: EN 61010-2-201; Control Equipment Safety Requirements UK Statutory Instrument 2012 No. 3032 and European Union 2011/65/EU RoHS, compliant with: EN IEC 63000; Technical documentation
RCM	Australian Radiocommunications Act, compliant with: EN 61000-6-4; Industrial Emissions
Ex	UK Statutory Instrument 2016 No. 1107 and European Union 2014/34/EU ATEX Directive, compliant with: EN IEC 60079-0; General Requirements EN IEC 60079-15; Potentially Explosive Atmospheres, Protection "n" for 5034-OW4I, 5034-OW4IXT only EN IEC 60079-7; Explosive Atmospheres, Protection "e" II 3 G Ex ec IIC T4 Gc and II 3 G Ex ec nC IIC T4 Gc for 5034-OW4I and 5034-OW4IXT only UL 24 ATEX 3272X and UL24UKEX2997X
IECEx	IECEx System, compliant with: IEC 60079-0; General Requirements IEC 60079-15; Potentially Explosive Atmospheres, Protection "n" for 5034-OW4I, 5034-OW4IXT only IEC 60079-7; Explosive Atmospheres, Protection "e" II 3 G Ex ec IIC T4 Gc and II 3 G Ex ec nC IIC T4 Gc for 5034-OW4I, 5034-OW4IXT only IECEx UL 24.0066X
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 4
Morocco	Arrêté ministériel n° 6404-15 du 1 er muharram 1437 Arrêté ministériel n° 6404-15 du 29 ramadan 1436

Table 21. Certifications - PointMax Digital I/O Modules (continued)

Certification ⁽¹⁾	5034-IB16, 5034-IB16XT, 5034-IB8, 5034-IB8XT, 5034-OB16, 5034-OB16XT, 5034-OB8, 5034-OB8XT, 5034-OW4I, 5034-OW4IXT
CCC	CNCA-C23-01 强制性产品认证实施规则 防爆电气 CNCA-C23-01 CCC Implementation Rule Explosion-Proof Electrical Products 2025122309123247

(1) When marked. See the Product Certifications website at rok.auto/certifications for declarations of conformity, certificates, and other certification details.

Safety Digital I/O Modules

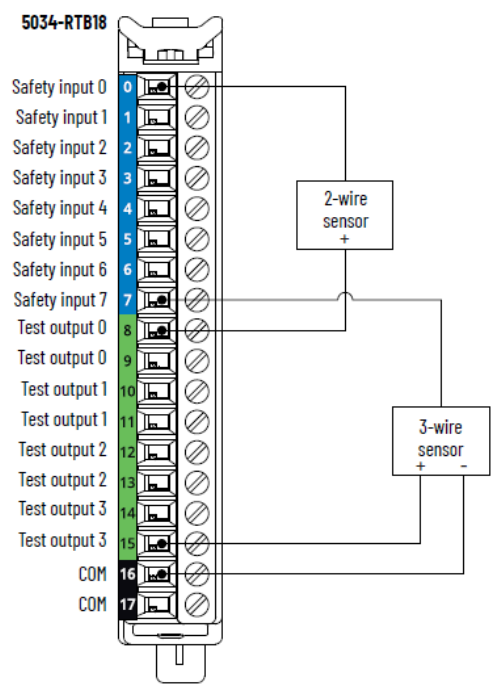
I/O Type	Catalog Number	Description
Safety Digital Input	5034-IB8S, 5034-IB8SXT	Safety digital 8 input module
Safety Digital Output	5034-OB8S, 5034-OB8SXT	Safety digital 8 output module

Environmental specifications and certifications for PointMax safety digital I/O modules are provided in [Environmental Specifications and Certifications on page 42](#).

5034-IB8S and 5034-IB8SXT Safety Digital 8 Input Modules

For more examples of wiring diagrams for 5034-IB8S and 5034-IB8SXT that can be used in functional safety applications, see the PointMax Digital I/O Modules User Manual, publication [5034-UM002](#). The wiring configuration affects the safety application level to which a PointMax safety I/O module is suitable.

Figure 18. 5034-IB8S and 5034-IB8SXT Wiring Diagram - 2-wire and 3-wire Sensor Wiring



All test outputs support muting lamp outputs.

Figure 19. 5034-IB8S and 5034-IB8SXT Functional Block Diagram

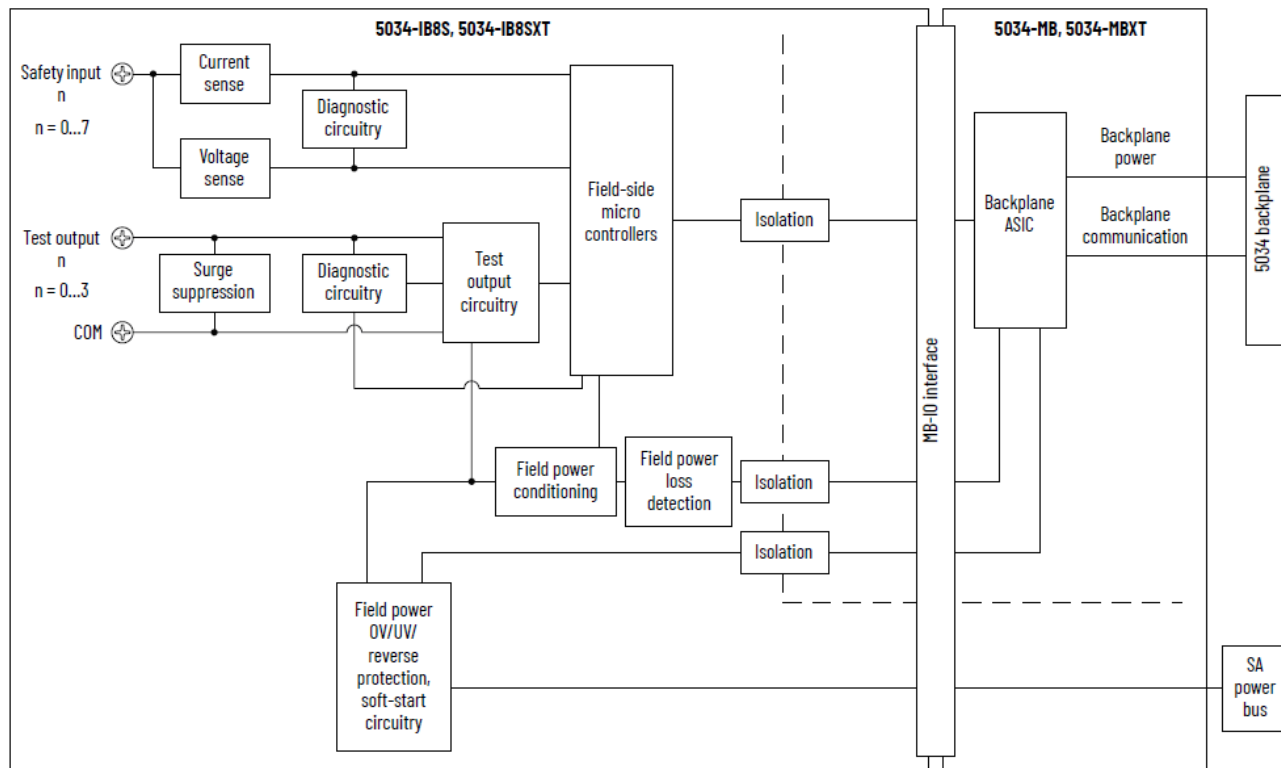


Table 22. Technical Specifications - 5034-IB8S, 5034-IB8SXT

Attribute	5034-IB8S, 5034-IB8SXT
On-state voltage range	10...30V DC
On-state current, min	2.2 mA @ 10V DC
On-state current, nom	2.4 mA @ 24V DC
On-state current, max	2.5 mA @ 30V DC
Off-state voltage, max	5V DC
Off-state current, max	1.5 mA
Input delay time Off-to-On, user-selectable filter time	0 ms (default), 2 ms, 5 ms, 10 ms, 20 ms, 50 ms
Input delay time On-to-Off, user-selectable filter time	0 ms (default), 2 ms, 5 ms, 10 ms, 20 ms, 50 ms
Safety class ⁽¹⁾	Up to and including Cat. 4 / PL e acc. to EN ISO 13849-1, SIL 3 acc. to IEC 61508
SRT ⁽²⁾	7 ms @ RPI of 2 ms
Test output current per point, max	0.7 A
Test output current per module, total	2.8 A
Test output pulse width, max	0.7 ms
Test output pulse period, typical	512 ms
Test output field capacitance, max	100 nF

Table 22. Technical Specifications - 5034-IB8S, 5034-IB8SXT (continued)

Attribute	5034-IB8S, 5034-IB8SXT
Surge current per test output, max	2.4 A for 50 ms, repeatable every 2 s The module current rating cannot exceed 5 A.
Test output on-state voltage drop, max	0.5V DC @ 0.7 A
Test output off-state leakage current, max	0.5 mA
Test output off-state voltage, max	5V DC
Muting lamp fault threshold current, max	6 mA
Muting lamp fault threshold current, min	1.8 mA
Test output short to ground/overload protection	Yes (per point), 4 A typical
Module over-temperature detection	Yes
SA supply reverse voltage protection	Yes
SA supply overvoltage protection, max	60V DC
CIP Sync	Yes, slave only ordinary clock

(1) See the PointMax Digital I/O Modules User Manual, publication [5034-UM002](#), for Safety Application Suitability Levels and Safety Data for safety modules.

(2) The input safety reaction time (SRT) is the time from when the signal changes on an input terminal to when safety data is sent to the safety controller.

Table 23. General Specifications - 5034-IB8S, 5034-IB8SXT

Attribute	5034-IB8S, 5034-IB8SXT
Number of safety inputs	8
Input type	IEC 61131-2 (Type 3), current sinking
Number of Test outputs/Muting Lamp outputs	4
Test output type	Sourcing
SA power nominal operating supply voltage	24V DC
SA power operating voltage range	18...30V DC
SA power current, nom	2.9 A
SA power current, max	2.9 A
SA power current at no load	19 mA @ 24V DC
Power dissipation, max	1.55 W
Thermal dissipation, max	5.29 BTU/hr
Isolation voltage	250V (continuous), Basic Insulation Type, System to Field No isolation between SA power and input ports No isolation between individual inputs
RIUP support	Yes
Module to base keying	Electronic keying via programming software
RTB keying	Slot 1, Slot 4, Slot 14
RTB supported	5034-RTB18, 5034-RTB18S

Table 23. General Specifications - 5034-IB8S, 5034-IB8SXT (continued)

Attribute	5034-IB8S, 5034-IB8SXT
Wiring category ⁽²⁾	2 - Signal ports 2 - Power ports
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Indicators	1 green/red module status indicator 1 green/red SA power status indicator 8 yellow/red I/O status indicators
Dimensions (HxWxD), approx	123.6 x 15.0 x 66.4 mm (4.87 x 0.59 x 2.61 in.)
Weight, approx	46.0 g (1.62 oz.) - 5034-IB8S 49.0 g (1.73 oz.) - 5034-IB8SXT
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

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

5034-OB8S and 5034-OB8SXT Safety Digital 8 Output Modules

For more examples of wiring diagrams for 5034-OB8S and 5034-OB8SXT that can be used in functional safety applications, see the PointMax Digital I/O Modules User Manual, publication [5034-UM002](#). The wiring configuration affects the safety application level to which a PointMax safety I/O module is suitable.

Figure 20. 5034-OB8S and 5034-OB8SXT Wiring Diagram

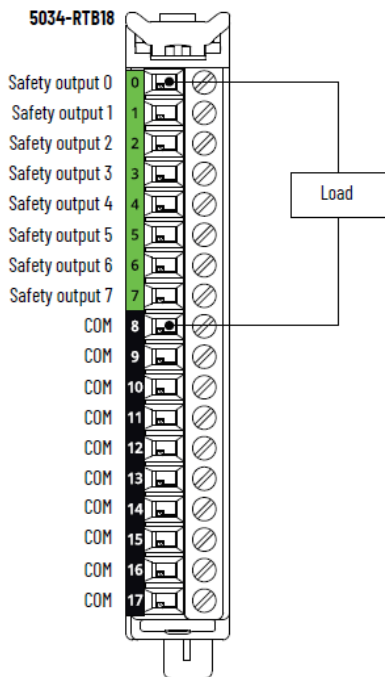


Figure 21. 5034-0B8S and 5034-0B8SXT Functional Block Diagram

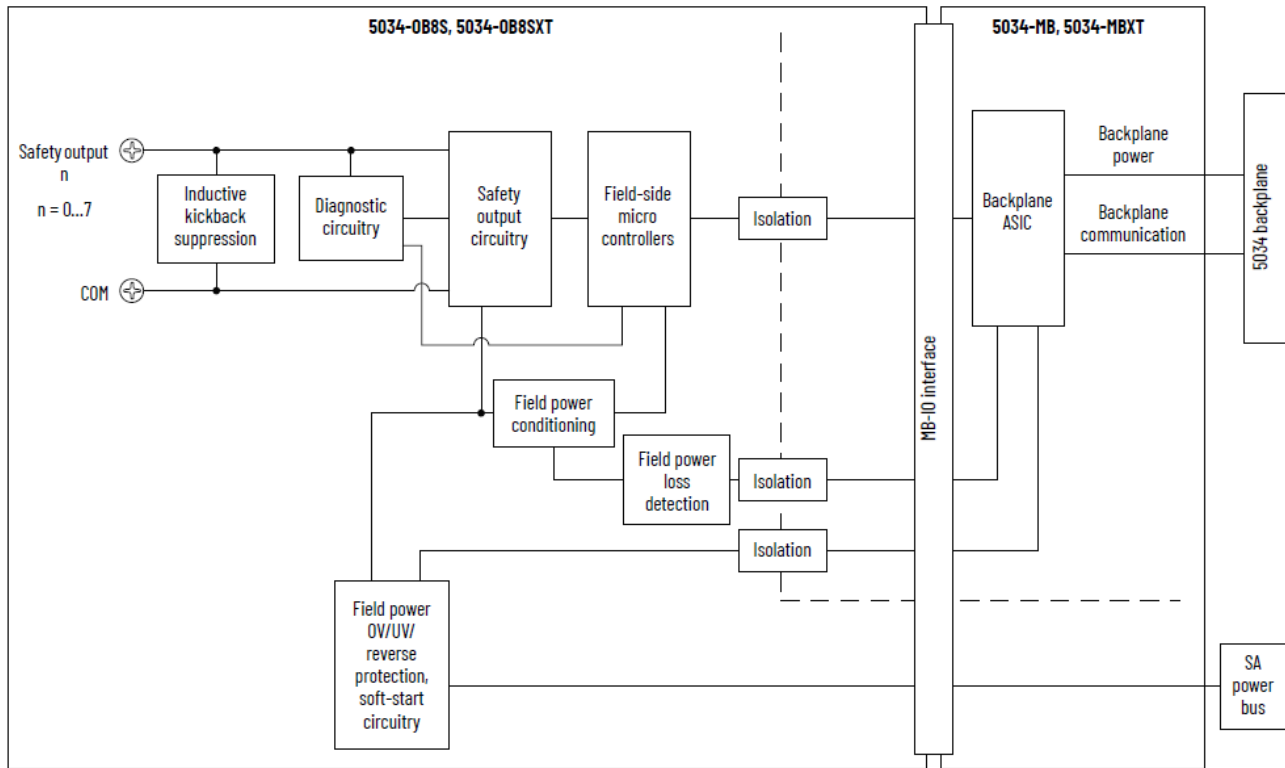


Table 24. Technical Specifications - 5034-0B8S, 5034-0B8SXT

Attribute	5034-0B8S, 5034-0B8SXT
On-state voltage range	17.5...30V DC
On-state voltage drop, max	0.5V DC @ 1 A
Off-state voltage, max	5V DC with min 10 kΩ load
Off-state leakage current per point, max	0.5 mA
Output current rating per point, max	1 A @ 40 °C (104 °F) 0.5 A @ 60 °C (140 °F)
Output current rating per module, total	8 A @ 40 °C (104 °F) 4 A @ 60 °C (140 °F)
Field capacitance limit permitted per output, max	100 nF
Field inductance limit permitted per output, max	1.2 H @ 0.5 A
Output clamping voltage for inductive load when turned off, max	53V DC
Surge current per point, max	2.4 A for 50 ms, repeatable every 2 s The module current rating cannot exceed 10 A.
Safety class ⁽¹⁾	Up to and including Cat. 4 / PL e acc. to EN ISO 13849-1, SIL 3 acc. to IEC 61508
SRT ⁽²⁾	6 ms
Safety Test Pulse width, max	0.7 ms
Safety Test Pulse period, typical	512 ms

Table 24. Technical Specifications - 5034-OB8S, 5034-OB8SXT (continued)

Attribute	5034-OB8S, 5034-OB8SXT
Open load detection diagnostics	Off state (can be enabled manually)
Output overload detection	Yes, 4 A typical
Output short to high detection	Yes in Safety Pulse Test mode
Channel-to-channel short-circuit detection	Yes in Safety Pulse Test mode
Module over-temperature detection	Yes
Output short to ground/overload protection	Yes
SA supply reverse voltage protection	Yes
SA supply overvoltage protection, max	60V DC
CIP Sync	Yes, slave only ordinary clock

(1) See the PointMax Digital I/O Modules User Manual, publication [5034-UM002](#), for Safety Application Suitability Levels and Safety Data for safety modules.

(2) The output safety reaction time (SRT) is the time from when safety data is received from the safety controller to when the output terminal changes state.

Table 25. General Specifications - 5034-OB8S, 5034-OB8SXT

Attribute	5034-OB8S, 5034-OB8SXT
Outputs per module	8
Output type	Sourcing
SA power nominal operating supply voltage	24V DC
SA power operating voltage range	18...30V DC
SA power current, nom	8.1 A @ 40 °C (104 °F) 4.1 A @ 60 °C (140 °F)
SA power current, max	8.1 A @ 40 °C (104 °F) 4.1 A @ 60 °C (140 °F)
SA power current at no load	20 mA @ 24V DC
Power dissipation, max	2.6 W @ 40 °C (104 °F) 1.4 W @ 60 °C (140 °F)
Thermal dissipation, max	8.87 BTU/hr @ 40 °C (104 °F) 4.78 BTU/hr @ 60 °C (140 °F)
Isolation voltage	250V (continuous), Basic Insulation Type, System to Field No isolation between SA power and output ports No isolation between individual output ports
RIUP support	Yes
Module to base keying	Electronic keying via programming software
RTB keying	Slot 1, Slot 5, Slot 14
RTB supported	5034-RTB18, 5034-RTB18S
Wiring category ⁽¹⁾	2 - Signal ports 2 - Power ports

Table 25. General Specifications - 5034-OB8S, 5034-OB8SXT (continued)

Attribute	5034-OB8S, 5034-OB8SXT
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Indicators	1 green/red module status indicator 1 green/red SA power status indicator 8 yellow/red I/O status indicators
Dimensions (HxWxD), approx	123.6 x 15.0 x 66.4 mm (4.87 x 0.59 x 2.61 in.)
Weight, approx	46.0 g (1.62 oz.) - 5034-OB8S 49.0 g (1.73 oz.) - 5034-OB8SXT
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

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

Environmental Specifications and Certifications

The following tables provide the environmental specifications and certifications for the PointMax safety digital I/O modules.

Table 26. Environmental Specifications - PointMax Safety Digital I/O Modules

Attribute	5034-IB8S, 5034-OB8S	5034-IB8SXT, 5034-OB8SXT
Temperature, operating	IEC 60068-2-1 (Test Ae, Operating Cold), IEC 60068-2-2 (Test Be, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -25 °C ≤ Ta ≤ +60 °C (-13 °F ≤ Ta ≤ +140 °F) for horizontal orientation -25 °C ≤ Ta ≤ +55 °C (-13 °F ≤ Ta ≤ +131 °F) for other orientations	
Temperature, surrounding air, max	60 °C (140 °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)	
Relative humidity	IEC 60068-2-30 (Test Db, Unpackaged Damp Heat): 5...95% noncondensing	
Conformal coated	No	Yes
Corrosive Atmosphere - ASTM B845-97 Method K Accelerated Test (30-Day Exposure) - Plus additional Rockwell Automation proprietary accelerated corrosive environment test protocol for specific industries with sources of gaseous sulfur compounds.	—	Severity Level GX ⁽¹⁾ per ANSI/ISA 71.04-2013, Airborne Contaminants—Gases Severity Level CX per IEC 60721-3-3:2019, Chemically Active Substances

Table 26. Environmental Specifications - PointMax Safety Digital I/O Modules (continued)

Attribute	5034-IB8S, 5034-OB8S	5034-IB8SXT, 5034-OB8SXT
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	
Repetitive shock, operating	IEC 60068-2-27, 25 g, 6 ms duration, 1000 shocks in each $\pm$ direction in each 3 axis	
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	
Radiated RF immunity	IEC 61000-4-3: 10V/m with 1 kHz sine wave 80% AM from 80...2000 MHz 10V/m with 1 kHz sine wave 80% AM from 2000...2700 MHz 10V/m with 1 kHz sine wave 80% AM from 2700...6000 MHz	
EFT/B immunity	IEC 61000-4-4: ± 3 kV @ 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	

(1) Up to 2100 angstroms of film growth per 30 days of copper and/or silver reactivity.

Table 27. Certifications - PointMax Safety Digital I/O Modules

Certification ⁽¹⁾	5034-IB8S, 5034-IB8SXT, 5034-OB8S, 5034-OB8SXT
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E322657. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E334470.
UK and CE	UK Statutory Instrument 2016 No. 1091 and European Union 2014/30/EU EMC Directive, compliant with: EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) UK Statutory Instrument 2016 No. 1101 and European Union 2014/35/EU LVD, compliant with: EN 61010-2-201; Control Equipment Safety Requirements UK Statutory Instrument 2012 No. 3032 and European Union 2011/65/EU RoHS, compliant with: EN IEC 63000; Technical documentation
RCM	Australian Radiocommunications Act, compliant with: EN 61000-6-4; Industrial Emissions

Table 27. Certifications - PointMax Safety Digital I/O Modules (continued)

Certification⁽¹⁾	5034-IB8S, 5034-IB8SXT, 5034-OB8S, 5034-OB8SXT
Ex	UK Statutory Instrument 2016 No. 1107 and European Union 2014/34/EU ATEX Directive, compliant with: EN IEC 60079-0; General Requirements EN IEC 60079-7; Explosive Atmospheres, Protection "e" II 3 G Ex ec IIC T4 Gc UL 24 ATEX 3272X and UL24UKEX2997X
IECEx	IECEx System, compliant with: IEC 60079-0; General Requirements IEC 60079-7; Explosive Atmospheres, Protection "e" II 3 G Ex ec IIC T4 Gc IECEx UL 24.0066X
TÜV ⁽²⁾⁽³⁾	TÜV Certified for Functional Safety: Up to and including Cat. 4 / PL e according to EN ISO 13849-1 and SIL 3 according to IEC 61508
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 4
Morocco	Arrêté ministériel n° 6404-15 du 1 er muharram 1437 Arrêté ministériel n° 6404-15 du 29 ramadan 1436
CCC	CNCA-C23-01 强制性产品认证实施规则 防爆电气 CNCA-C23-01 CCC Implementation Rule Explosion-Proof Electrical Products 2025122309123247

(1) When marked. See the Product Certifications website at rok.auto/certifications for declarations of conformity, certificates, and other certification details.

(2) When used as described in the GuardLogix® 5580 and Compact GuardLogix 5380 Controller Systems Reference Manual, publication [1756-RM012](#) and the PointMax Digital I/O Modules User Manual, publication [5034-UM002](#), for Safety Application Suitability Levels and Safety Data for safety modules.

(3) PointMax safety digital I/O modules are in the process of obtaining TÜV certification.

Analog I/O Modules

I/O Type	Catalog Number	Description
Analog Input	5034-IF8C, 5034-IF8CXT	Analog 8 input current module
	5034-IF8V, 5034-IF8VXT	Analog 8 input voltage module
	5034-IF4, 5034-IF4XT	Analog 4 input voltage/current module
	5034-IRT4I, 5034-IRT4IXT	Analog 4 input isolated RTD/TC module
Analog Output	5034-OF4, 5034-OF4XT	Analog 4 output module

Environmental specifications and certifications for PointMax analog I/O modules are provided in [Environmental Specifications and Certifications on page 67](#).

5034-IF8C and 5034-IF8CXT Analog 8 Input Current Modules

Figure 22. 5034-IF8C and 5034-IF8CXT Wiring Diagram

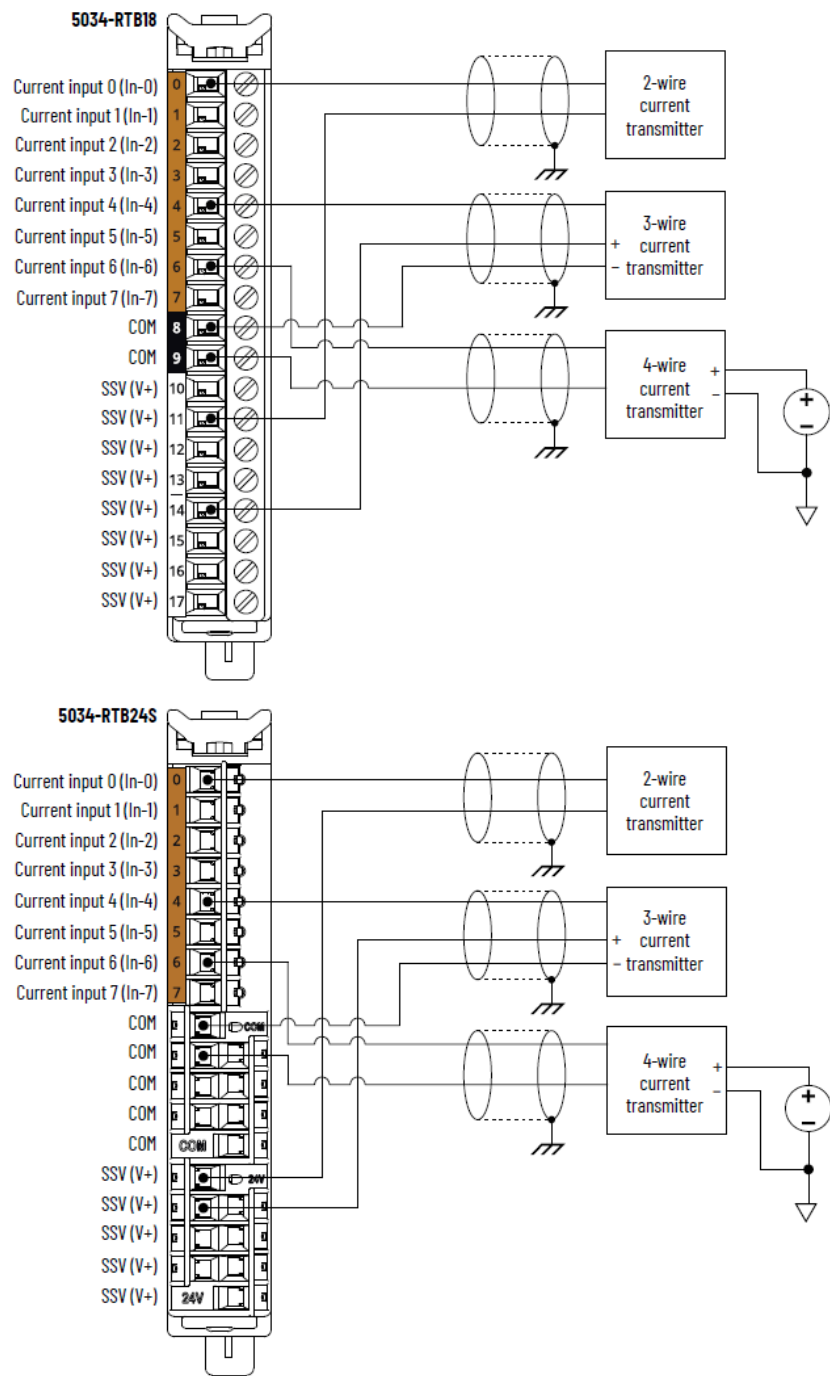


Figure 23. 5034-IF8C and 5034-IF8CXT Functional Block Diagram

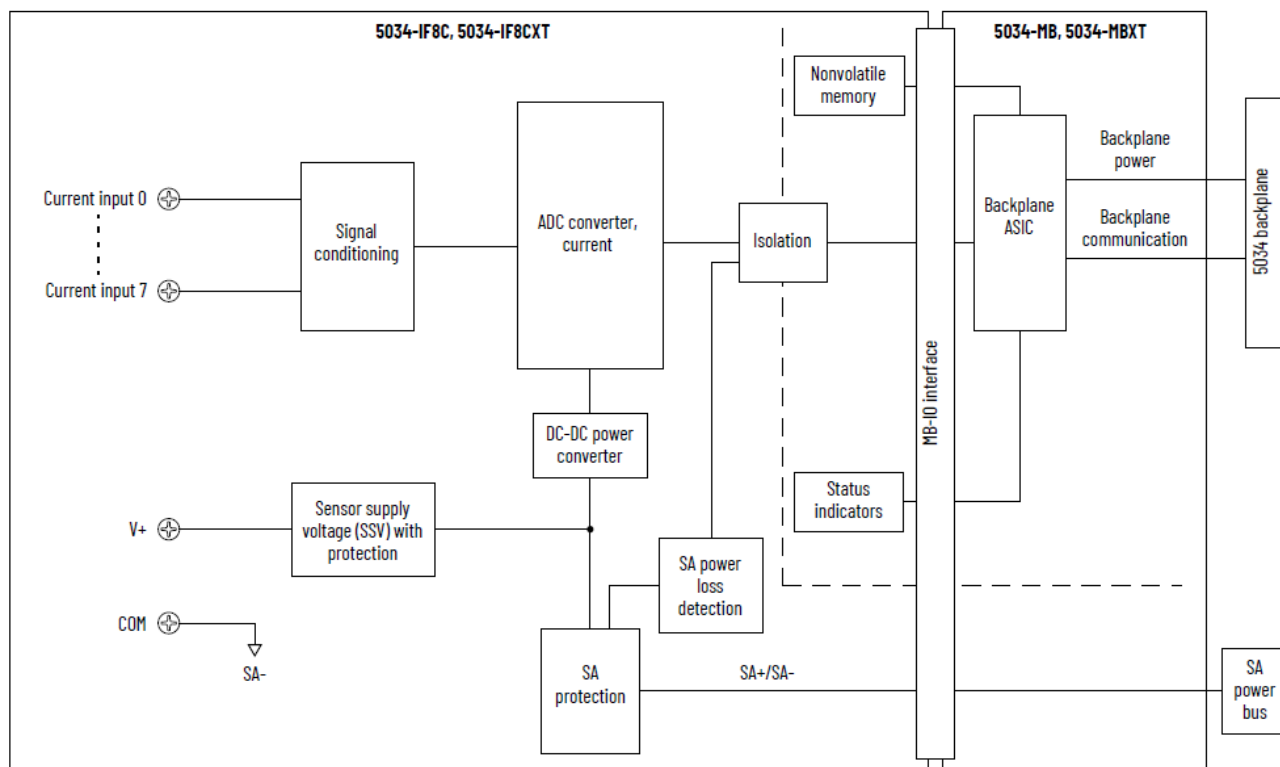


Table 28. Technical Specifications - 5034-IF8C, 5034-IF8CXT

Attribute	5034-IF8C, 5034-IF8CXT
Input range, current	0...20 mA 4...20 mA
Input impedance	Current: 75...115 Ω
Module conversion method	Sigma-delta
Resolution, current ⁽¹⁾ At 50/60 Hz notch filter	16 bits
Calibrated accuracy at 25 °C (77 °F)	Current: 0.1% full scale with 50/60 Hz filter
Calibrated accuracy over full temperature range -25...+60 °C (-13...+140 °F)	Current: 0.2% full scale with 50/60 Hz filter
Fastest scan time per channel	0.4 ms
Fastest scan time per module	1.2 ms
Input notch filter (Hz) selections	10, 20, 50, 60 (Default), 100, 200, 400, 500, 1000, 5000, 10000, 15625, 31250
Input digital filter	First order lag, 0 ms (Default) 0...32,767 ms (32.767 s)
HART handheld compliance	Not supported
Input overvoltage protection, max	± 32 V DC
Overcurrent protection	Yes

Table 28. Technical Specifications - 5034-IF8C, 5034-IF8CXT (continued)

Attribute	5034-IF8C, 5034-IF8CXT
Data value during overload condition	Full scale, overrange flag, data uncertain/data bad
Open wire detection time	Current: ≤ 1 sec
Onboard data alarming	Yes
Scaling to engineering units	Yes
Real-time channel sampling	Yes
Data format	IEEE 754 32-bit floating point
Rolling timestamp of inputs	Yes
CIP Sync	Yes, slave only ordinary clock

(1) Notch filter dependent.

Table 29. General Specifications - 5034-IF8C, 5034-IF8CXT

Attribute	5034-IF8C, 5034-IF8CXT
Number of inputs	8 channels, single-ended Current mode
SA power voltage, nom	24V DC
SA power voltage range	10...30V DC
SA power current, nom	1.1 A
SA power current, max	1.2 A
SA power current at no load	11 mA
SA reverse polarity protection	Yes
SSV voltage range	Follow SA supply
SSV current, max	1.0 A
SSV short circuit protection	Yes
Power dissipation, max ⁽¹⁾	0.95 W
Thermal dissipation, max ⁽¹⁾	3.24 BTU/hr
Isolation voltage	250V (continuous), Basic Insulation Type, System to Field No isolation between SA power and input ports No isolation between individual input ports
Calibration	Factory-calibrated Manual calibration supported, see PointMax Analog I/O Modules User Manual, publication 5034-UM003
RIUP support	Yes
Module to base keying	Electronic keying via programming software
RTB keying	Slot 2, Slot 5, Slot 8
RTB supported	5034-RTB18, 5034-RTB18S, 5034-RTB24S

Table 29. General Specifications - 5034-IF8C, 5034-IF8CXT (continued)

Attribute	5034-IF8C, 5034-IF8CXT
Wiring category ⁽²⁾	2 - Signal ports 2 - Power ports
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Indicators	1 green/red module status indicator 1 green/red SA power status indicator 8 yellow/red I/O status indicators
Dimensions (HxWxD), approx	123.6 x 15.0 x 66.4 mm (4.87 x 0.59 x 2.61 in.)
Weight, approx	43.0 g (1.51 oz.) - 5034-IF8C 45.0 g (1.59 oz.) - 5034-IF8CXT
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

(1) Value is measured at 60 °C (140 °F). Power dissipation varies with temperature.

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

5034-IF8V and 5034-IF8VXT Analog 8 Input Voltage Modules

Figure 24. 5034-IF8V and 5034-IF8VXT Wiring Diagram

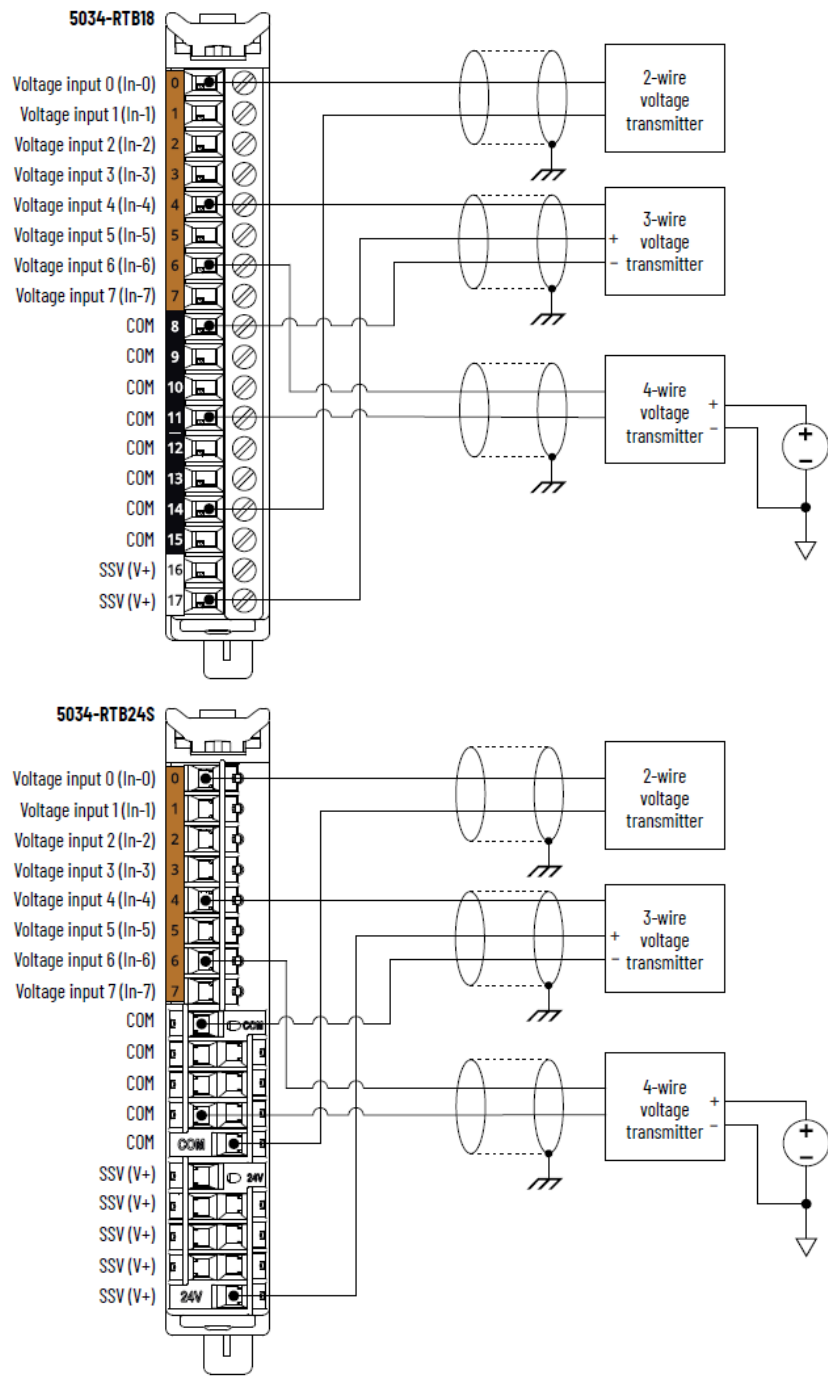


Figure 25. 5034-IF8V and 5034-IF8VXT Functional Block Diagram

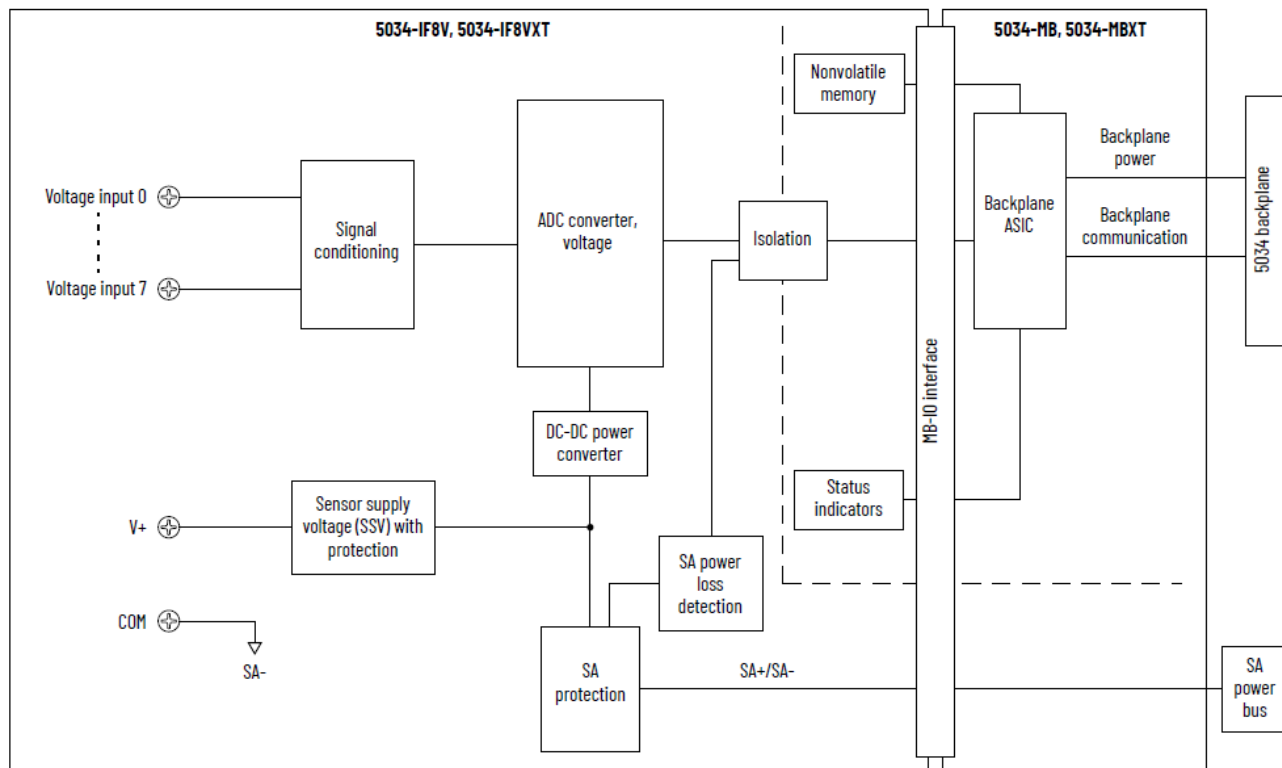


Table 30. Technical Specifications - 5034-IF8V, 5034-IF8VXT

Attribute	5034-IF8V, 5034-IF8VXT
Input range, voltage	±10V 0...10V 0...5V
Input impedance	Voltage: ≥ 1 MΩ
Module conversion method	Sigma-delta
Resolution, voltage ⁽¹⁾ At 50/60 Hz notch filter	16 bits 15 bits for 0...5V range
Calibrated accuracy at 25 °C (77 °F)	Voltage (±10V and 0...10V range): 0.1% full scale with 50/60 Hz filter Voltage (0...5V range): 0.2% full scale with 50/60 Hz filter
Calibrated accuracy over full temperature range -25...+60 °C (-13...+140 °F)	Voltage (±10V and 0...10V range): 0.2% full scale with 50/60 Hz filter Voltage (0...5V range): 0.4% full scale with 50/60 Hz filter
Fastest scan time per channel	0.4 ms
Fastest scan time per module	1.2 ms
Input notch filter (Hz) selections	10, 20, 50, 60 (Default), 100, 200, 400, 500, 1000, 5000, 10000, 15625, 31250
Input digital filter	First order lag, 0 ms (Default) 0...32,767 ms (32.767 s)
Input overvoltage protection, max	±32V DC
Data value during overload condition	Full scale, overrange flag, data uncertain/data bad

Table 30. Technical Specifications - 5034-IF8V, 5034-IF8VXT (continued)

Attribute	5034-IF8V, 5034-IF8VXT
Open wire detection time	Voltage: ≤ 2 sec
Onboard data alarming	Yes
Scaling to engineering units	Yes
Real-time channel sampling	Yes
Data format	IEEE 754 32-bit floating point
Rolling timestamp of inputs	Yes
CIP Sync	Yes, slave only ordinary clock
(1) Notch filter dependent.	

Table 31. General Specifications - 5034-IF8V, 5034-IF8VXT

Attribute	5034-IF8V, 5034-IF8VXT
Number of inputs	8 channels, single-ended Voltage mode
SA power voltage, nom	24V DC
SA power voltage range	10...30V DC
SA power current, nom	1.1 A
SA power current, max	1.2 A
SA power current at no load	15 mA
SA reverse polarity protection	Yes
SSV voltage range	Follow SA supply
SSV current, max	1.0 A
SSV short circuit protection	Yes
Power dissipation, max	0.49 W
Thermal dissipation, max	1.67 BTU/hr
Isolation voltage	250V (continuous), Basic Insulation Type, System to Field No isolation between SA power and input ports No isolation between individual input ports
Calibration	Factory-calibrated Manual calibration supported, see PointMax Analog I/O Modules User Manual, publication 5034-UM003
RIUP support	Yes
Module to base keying	Electronic keying via programming software
RTB keying	Slot 2, Slot 6, Slot 8
RTB supported ⁽²⁾	5034-RTB18, 5034-RTB18S, 5034-RTB24S
Wiring category ⁽²⁾	2 - Signal ports 2 - Power ports

Table 31. General Specifications - 5034-IF8V, 5034-IF8VXT (continued)

Attribute	5034-IF8V, 5034-IF8VXT
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Indicators	1 green/red module status indicator 1 green/red SA power status indicator 8 yellow/red I/O status indicators
Dimensions (HxWxD), approx	123.6 x 15.0 x 66.4 mm (4.87 x 0.59 x 2.61 in.)
Weight, approx	44.0 g (1.55 oz.) - 5034-IF8V 47.0 g (1.66 oz.) - 5034-IF8VXT
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

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

5034-IF4 and 5034-IF4XT Analog 4 Input Voltage/Current Modules

Figure 26. 5034-IF4 and 5034-IF4XT Wiring Diagram - Current Mode

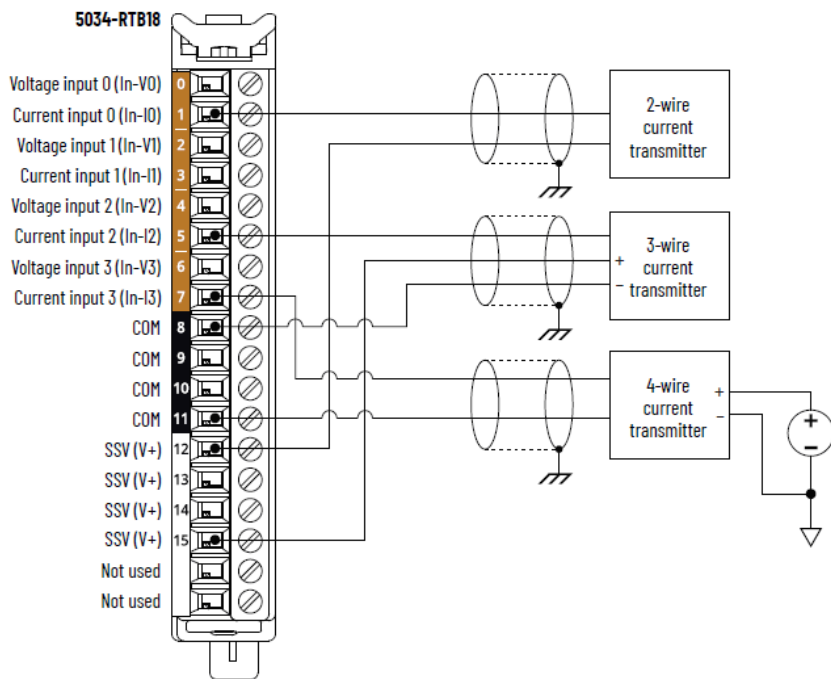


Figure 27. 5034-IF4 and 5034-IF4XT Wiring Diagram - Voltage Mode

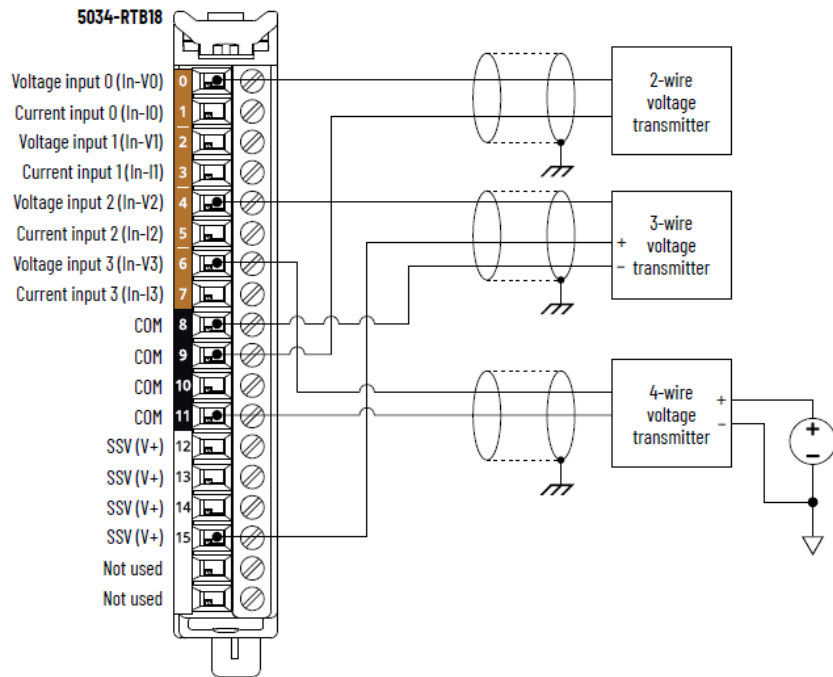


Figure 28. 5034-IF4 and 5034-IF4XT Functional Block Diagram

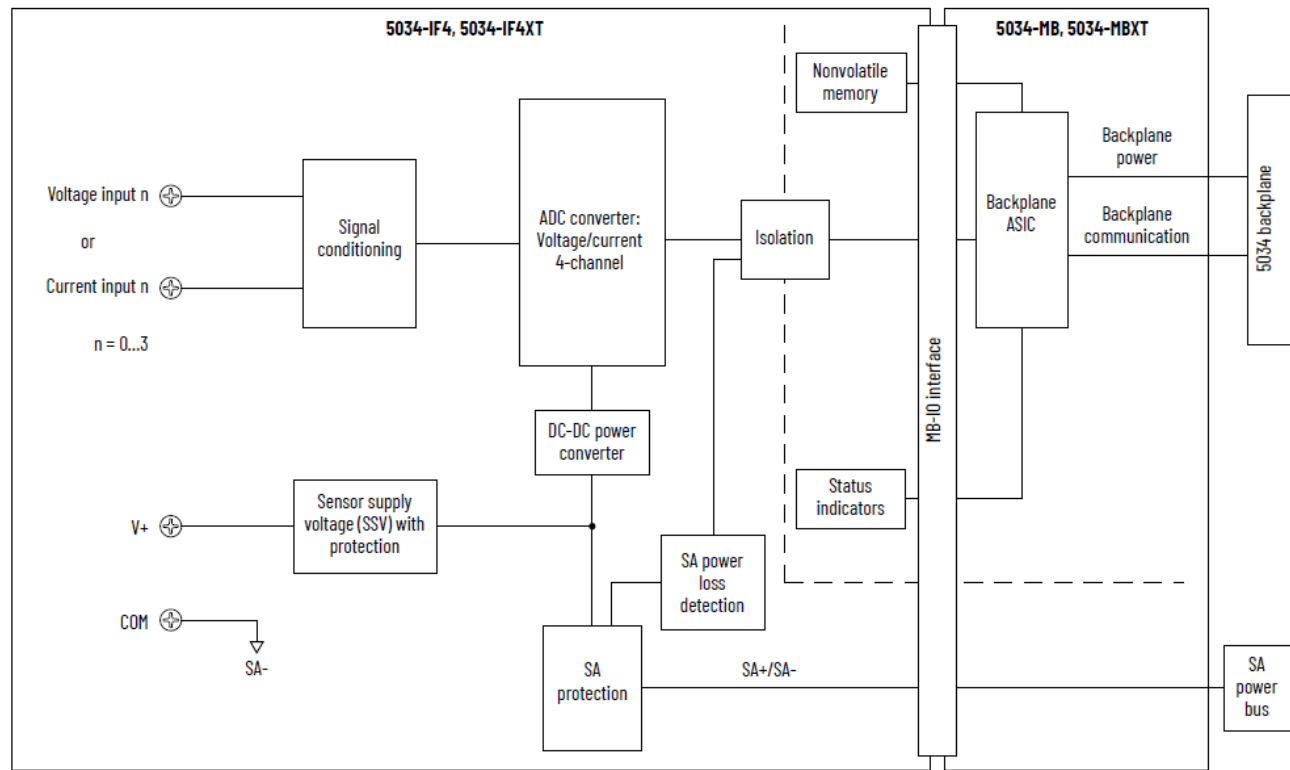


Table 32. Technical Specifications - 5034-IF4, 5034-IF4XT

Attribute	5034-IF4, 5034-IF4XT
Input range, voltage	±10V 0...10V 0...5V
Input range, current	0...20 mA 4...20 mA
Input impedance	Voltage: ≥ 1 MΩ Current: 250 Ω typical
Module conversion method	Sigma-delta
Resolution, voltage ⁽¹⁾ At 50/60 Hz notch filter	16 bits 15 bits for 0...5V range
Resolution, current ⁽¹⁾ At 50/60 Hz notch filter	16 bits
Calibrated accuracy at 25 °C (77 °F)	Voltage (±10V and 0...10V range): 0.1% full scale with 50/60 Hz filter Voltage (0...5V range): 0.2% full scale with 50/60 Hz filter Current: 0.1% full scale with 50/60 Hz filter
Calibrated accuracy over full temperature range -25...+60 °C (-13...+140 °F)	Voltage (±10V and 0...10V range): 0.2% full scale with 50/60 Hz filter Voltage (0...5V range): 0.4% full scale with 50/60 Hz filter Current: 0.2% full scale with 50/60 Hz filter
Fastest scan time per channel	0.4 ms
Fastest scan time per module	1.2 ms
Input notch filter (Hz) selections	10, 20, 50, 60 (Default), 100, 200, 400, 500, 1000, 5000, 10000, 15625, 31250
Input digital filter	First order lag, 0 ms (Default) 0...32,767 ms (32.767 s)
HART handheld compliance	Yes
Input overvoltage protection, max	±32V DC
Overcurrent protection	Yes
Data value during overload condition	Full scale, overrange flag, data uncertain/data bad
Open wire detection time	Voltage: ≤ 2 sec Current: ≤ 1 sec
Onboard data alarming	Yes
Scaling to engineering units	Yes
Real-time channel sampling	Yes
Data format	IEEE 754 32-bit floating point
Rolling timestamp of inputs	Yes
CIP Sync	Yes, slave only ordinary clock
(1) Notch filter dependent	

Table 33. General Specifications - 5034-IF4, 5034-IF4XT

Attribute	5034-IF4, 5034-IF4XT
Number of inputs	4 channels, single-ended Configurable voltage or current mode at channel level
SA power voltage, nom	24V DC
SA power voltage range	10...30V DC
SA power current, nom	1.1 A
SA power current, max	1.2 A
SA power current at no load	11 mA
SA reverse polarity protection	Yes
SSV voltage range	Follow SA supply
SSV current, max	1.0 A
SSV short-circuit protection	Yes
Power dissipation, max ⁽¹⁾	0.91 W
Thermal dissipation, max ⁽¹⁾	3.11 BTU/hr
Isolation voltage	250V (continuous), Basic Insulation Type, System to Field No isolation between SA power and inputs ports No isolation between individual inputs ports
Calibration	Factory-calibrated Manual calibration supported, see PointMax Analog I/O Modules User Manual, publication 5034-UM003
RIUP support	Yes
Module to base keying	Electronic keying via programming software
RTB keying	Slot 2, Slot 4, Slot 10
RTB supported	5034-RTB18, 5034-RTB18S
Wiring category ⁽²⁾	2 - Signal ports 2 - Power ports
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Indicators	1 green/red module status indicator 1 green/red SA power status indicator 4 yellow/red I/O status indicators
Dimensions (HxWxD), approx	123.6 x 15.0 x 66.4 mm (4.87 x 0.59 x 2.61 in.)
Weight, approx	42.0 g (1.48 oz.) - 5034-IF4 45.0 g (1.59 oz.) - 5034-IF4XT
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

Table 33. General Specifications - 5034-IF4, 5034-IF4XT (continued)

Attribute	5034-IF4, 5034-IF4XT
(1) Value is measured at 60 °C (140 °F). Power dissipation varies with temperature.	
(2) Use this Conductor Category information for planning conductor routing. See the Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1 . Use this Conductor Category information for planning conductor routing as described in the appropriate System Level Installation Manual.	

5034-IRT4I and 5034-IRT4IXT Analog 4 Input Isolated RTD/TC Modules

Figure 29. 5034-IRT4I and 5034-IRT4IXT Wiring Diagram - RTD Mode

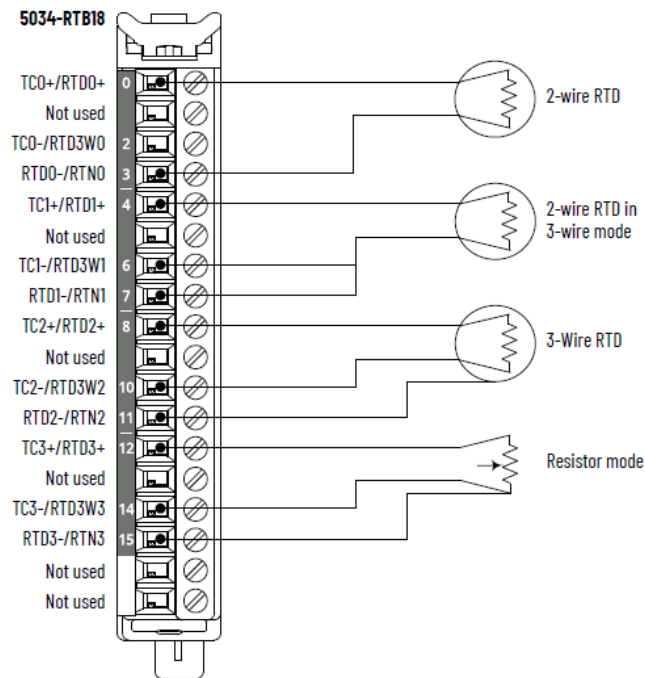


Figure 30. 5034-IRT4I and 5034-IRT4IXT Wiring Diagram - Thermocouple Mode

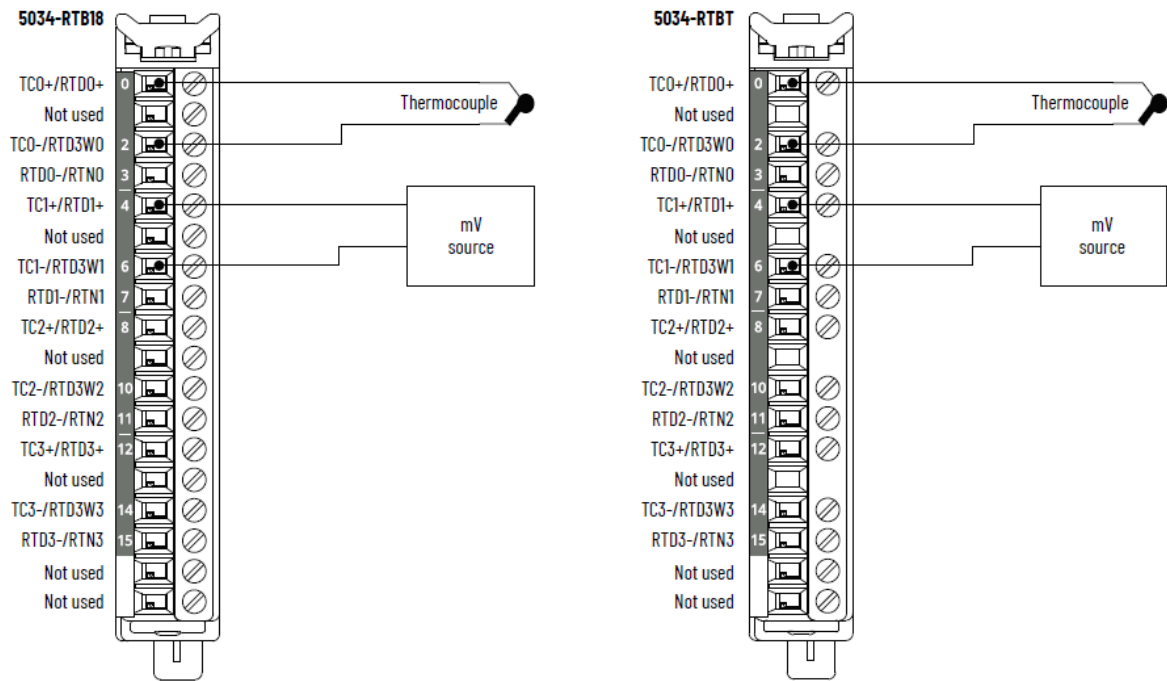


Figure 31. 5034-IRT4I and 5034-IRT4IXT Functional Block Diagram

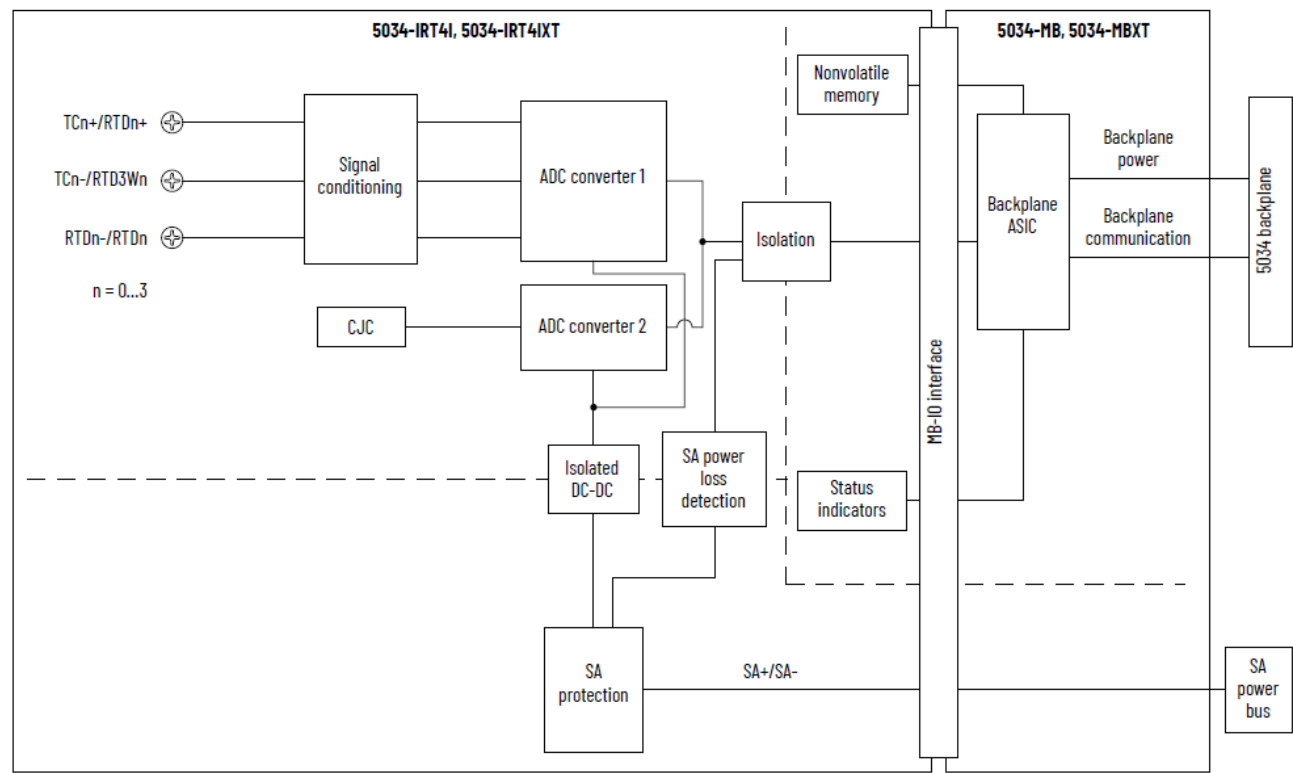


Table 34. Technical Specifications - 5034-IRT4I, 5034-IRT4IXT

Attribute	5034-IRT4I, 5034-IRT4IXT
Input range, resistive	1...500 Ω 2...1000 Ω 4...2000 Ω 8...4000 Ω
Input type, RTD	100, 200, 500, 1000 Ω platinum, $\alpha = 385$ 100, 200, 500, 1000 Ω platinum, $\alpha = 3916$ 120 Ω nickel, $\alpha = 672$ 100, 120, 200, 500 Ω nickel, $\alpha = 618$ 10 Ω copper 427
Input range, thermocouple/millivolt	± 100 mV
Input type, thermocouple	B, C, D, E, J, K, N, R, S, T, TXK/XK(L)
Input impedance	Thermocouple/millivolt: > 1 M Ω RTD: > 1 M Ω
Common mode voltage (channel to channel)	250V (continuous), Basic Isolation
Module conversion method	Sigma-delta, 24-bit multiplexed ADC
Resolution, RTD/resistive At 50/60 Hz notch filter	16 bit
Resolution, thermocouple/millivolt At 50/60 Hz notch filter	16 bit
RTD excitation current	250 μ A for 1000, 2000, 4000 Ω range 500 μ A for 500 Ω range
Thermocouple linearization	ITS-90
CJ mode	Onboard CJC, RTB CJC, remote CJC
Onboard CJC inputs (for thermocouple mode use only)	CJC sensors Four thermistors embedded in 5034-IRT4I and 5034-IRT4IXT Vishay NTC5005E3103FHT
Onboard CJC sensor accuracy	± 3.0 $^{\circ}$ C, 0 $^{\circ}$ C $< T_{amb} < 60$ $^{\circ}$ C (± 5.4 $^{\circ}$ F, 32 $^{\circ}$ F $< T_{amb} < 140$ $^{\circ}$ F) ± 4.0 $^{\circ}$ C, -25 $^{\circ}$ C $< T_{amb} < 0$ $^{\circ}$ C (± 7.2 $^{\circ}$ F, -13 $^{\circ}$ F $< T_{amb} < 32$ $^{\circ}$ F)
RTB CJC inputs (for thermocouple mode use only)	CJC sensors Four thermistors embedded in 5034-RTBT and 5034-RTBTS TE Connectivity TE 10K3A1A
RTB CJC sensor accuracy	± 0.6 $^{\circ}$ C, 0 $^{\circ}$ C $< T_{amb} < 60$ $^{\circ}$ C (± 1.1 $^{\circ}$ F, 32 $^{\circ}$ F $< T_{amb} < 140$ $^{\circ}$ F) ± 1.2 $^{\circ}$ C, -25 $^{\circ}$ C $< T_{amb} < 0$ $^{\circ}$ C (± 2.2 $^{\circ}$ F, -13 $^{\circ}$ F $< T_{amb} < 32$ $^{\circ}$ F)
CJC conversion method	12-bit SAR
Calibrated accuracy at 25 $^{\circ}$ C (77 $^{\circ}$ F)	Thermocouple/millivolt: 0.1% full scale with 50/60 Hz filter RTD: 500 Ω , 1 k Ω , 2 k Ω , 4 k Ω range, 0.1% full scale with 50/60 Hz filter
Calibrated accuracy over full temperature range -25...+60 $^{\circ}$ C (-13...+140 $^{\circ}$ F)	Thermocouple/millivolt: 0.25% full scale with 50/60 Hz filter RTD: 500 Ω , 1 k Ω , 2 k Ω , 4 k Ω range, 0.25% full scale with 50/60 Hz filter
Fastest scan time per channel	0.36 ms
Fastest scan time per module	0.36 ms

Table 34. Technical Specifications - 5034-IRT4I, 5034-IRT4IXT (continued)

Attribute	5034-IRT4I, 5034-IRT4IXT
Input notch filter selections (Hz)	10, 20, 50, 60 (Default), 100, 200, 500, 1000, 2500, 5000
Hardware input filter	1 kHz
Input digital filter	First order lag, 0 ms (Default) 0...32,767 ms (32.767 s)
Normal mode noise rejection ratio	65 dB @ 50/60 Hz, notch filter dependent
Open wire detection time	< 200 ms
Overvoltage protection, max	32V DC
Scaling to engineering units	Yes
Real-time channel sampling	Yes
Rolling timestamp of inputs	Yes
CIP Sync	Yes, slave only ordinary clock
Data format	IEEE 754 32-bit floating point

Table 35. Technical Specifications - 5034-IRT4I, 5034-IRT4IXT - RTD Sensors

RTD Sensor Types ⁽¹⁾	Temperature Range
100, 200, 500, 1000 Ω PT 385	-200...+870 °C -328...+1598 °F 73...1143 K 132...2058 °R
100, 200, 500, 1000 Ω PT 3916	-200...+630 °C -328...+1166 °F 73...903 K 132...1626 °R
10 Ω CU 427	-200...+260 °C -328...+500 °F 73...533 K 132...960 °R
120 Ω NI 672	-80...+320 °C -112...+608 °F 193...593 K 348...1068 °R
100, 120, 200, 500 Ω NI 618	-60...+250 °C -76...+482 °F 213...523 K 384...942 °R

(1) Each sensor type supports all temperature ranges listed.

Table 36. Technical Specifications - 5034-IRT4I, 5034-IRT4IXT - Thermocouples

Thermocouple Type	Temperature Range
Thermocouple type B	21...1820 °C 68...3308 °F 293...2093 K 528...3768 °R
Thermocouple type C	0...2315 °C 32...4199 °F 273...2588 K 492...4659 °R
Thermocouple type D	0...2315 °C 32...4199 °F 273...2588 K 492...4659 °R
Thermocouple type E	-270...+1000 °C -454...+1832 °F 3...1273 K 6...2292 °R
Thermocouple type J	-210...+1200 °C -346...+2192 °F 63...1473 K 114...2652 °R
Thermocouple type K	-270...+1372 °C -454...+2502 °F 3...1645 K 6...2961 °R
Thermocouple type N	-270...+1300 °C -454...+2372 °F 3...1573 K 6...2832 °R
Thermocouple type R	-50...+1768 °C -58...+3215 °F 223...2041 K 402...3674 °R
Thermocouple type S	-50...+1768 °C -58...+3215 °F 223...2041 K 402...3674 °R
Thermocouple type T	-270...+400 °C -454...+752 °F 3...673 K 6...1212 °R
Thermocouple type TXK/XK(L)	-200...+800 °C -328...+1472 °F 73...1073 K 132...1932 °R

Table 37. General Specifications - 5034-IRT4I, 5034-IRT4IXT

Attribute	5034-IRT4I, 5034-IRT4IXT
Number of inputs	4 channels (4 isolated group)
SA power voltage, nom	24V DC
SA power voltage range	10...30V DC
SA power current, nom	50 mA
SA power current, max	0.1 A
SA power current at no load	11 mA
SA reverse polarity protection	Yes
Power dissipation, max ⁽¹⁾	0.42 W
Thermal dissipation, max ⁽¹⁾	1.43 BTU/hr
Isolation voltage	250V (continuous), Basic Insulation Type, System to Field 250V (continuous), Basic Insulation Type, SA power and input ports 250V (continuous), Basic Insulation Type, between individual input ports
Calibration	Factory-calibrated Manual calibration supported, see PointMax Analog I/O Modules User Manual, publication 5034-UM003
RIUP support	Yes
Module to base keying	Electronic keying via programming software
RTB keying	Slot 2, Slot 7, Slot 10
RTB supported	5034-RTB18, 5034-RTB18S, 5034-RTBT, 5034-RTBTS To help achieve better accuracy, use the CJC thermistors that are embedded in 5034-RTBT and 5034-RTBTS.
Wiring category ⁽²⁾	2 - Signal ports 2 - Power ports
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Indicators	1 green/red module status indicator 1 green/red SA power status indicator 4 yellow/red I/O status indicators
Dimensions (HxWxD), approx	123.6 x 15.0 x 66.4 mm (4.87 x 0.59 x 2.61 in.)
Weight, approx	45.0 g (1.59 oz.) - 5034-IRT4I 48.0 g (1.69 oz.) - 5034-IRT4IXT
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

(1) Value is measured at 60 °C (140 °F). Power dissipation varies with temperature.

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

5034-OF4 and 5034-OF4XT Analog 4 Output Modules

Figure 32. 5034-OF4 and 5034-OF4XT Wiring Diagram – Current Mode

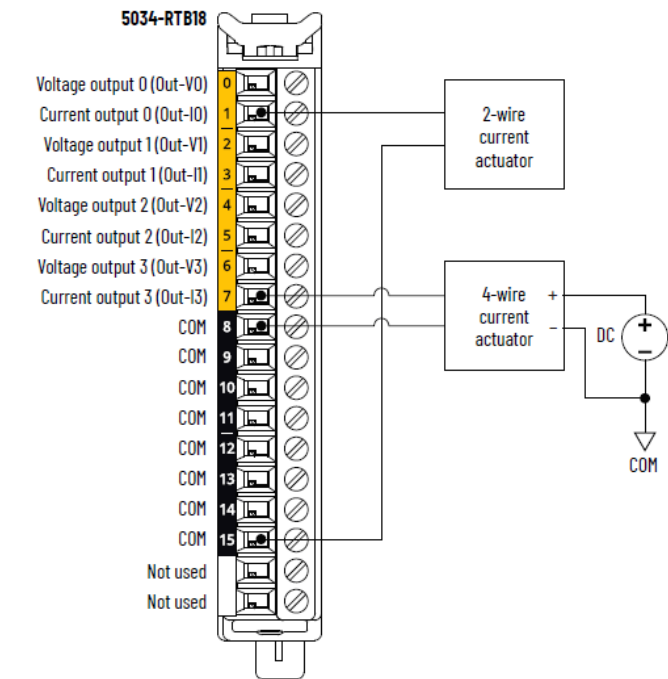


Figure 33. 5034-OF4 and 5034-OF4XT Wiring Diagram – Voltage Mode

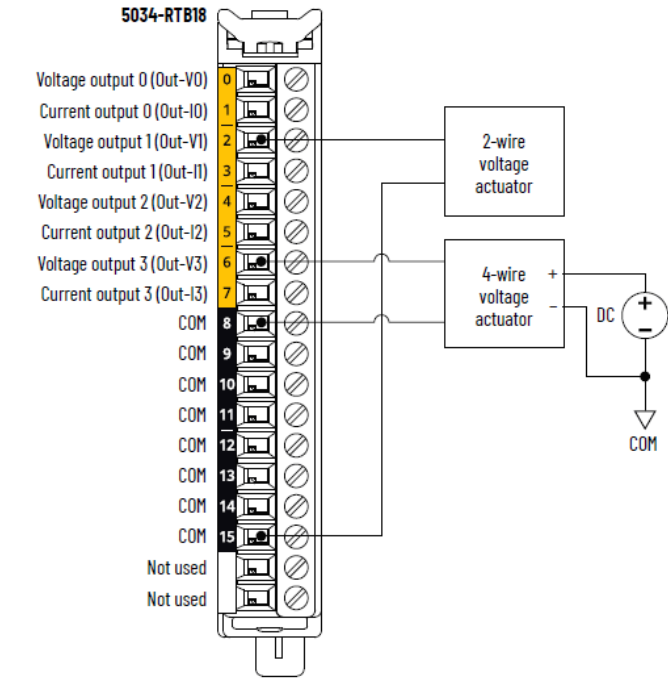


Figure 34. 5034-OF4 and 5034-OF4XT Functional Block Diagram

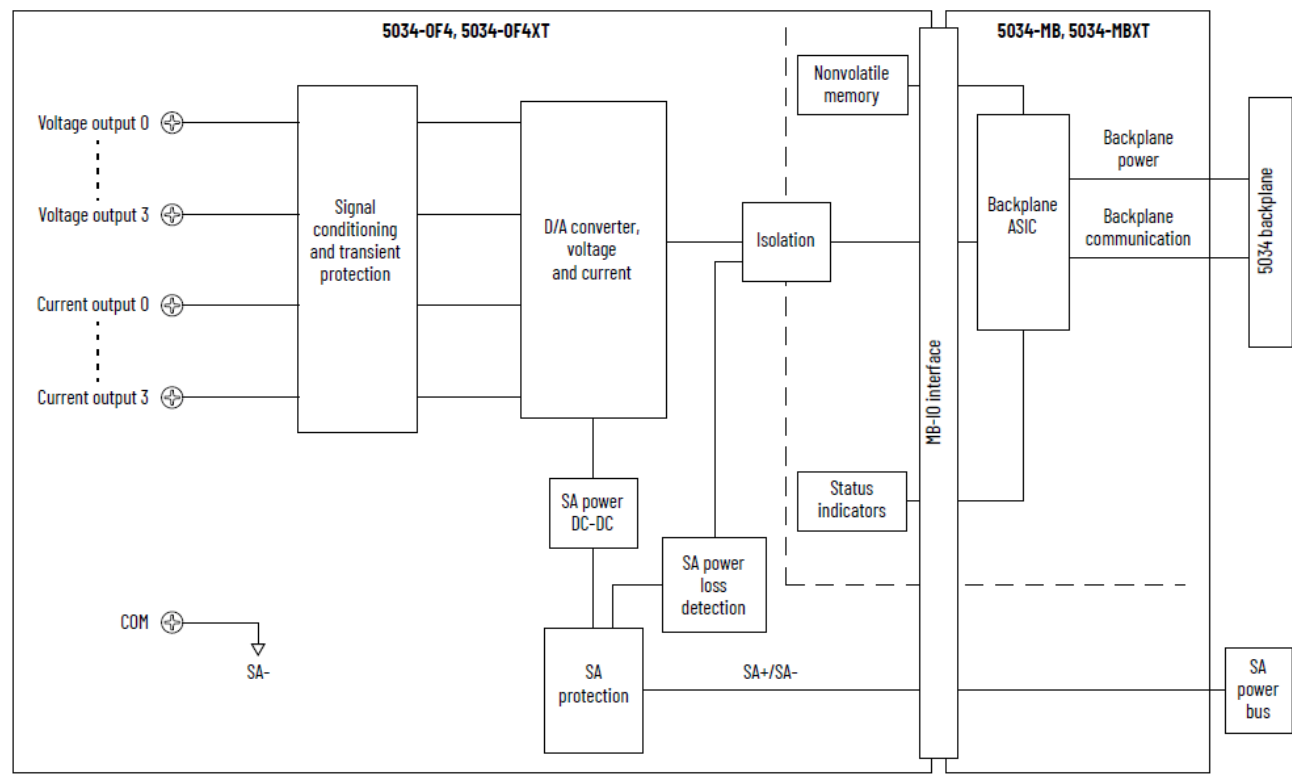


Table 38. Technical Specifications - 5034-OF4, 5034-OF4XT

Attribute	5034-OF4, 5034-OF4XT
Output range, voltage	±10V 0...10V 0...5V
Output range, current	0...20 mA 4...20 mA
Resolution, voltage	±10V: 15 bits 0...10V: 16 bits 0...5V: 16 bits
Resolution, current	16 bits
Calibrated accuracy at 25 °C (77 °F)	Voltage: 0.10% full scale Current: 0.10% full scale
Calibrated accuracy over full temperature range -25...+60 °C (-13...+140 °F)	Voltage: 0.2% full scale Current: 0.2% full scale
Drive capability	Voltage: 3000 Ω min Current: 500 Ω max
Capacitive load, max (voltage mode only)	1 µF
Inductive load, max (current mode only)	1 mH
Open wire detection	Current mode only
Short circuit detection	Voltage mode only – Output electronically limited to 16 mA or less

Table 38. Technical Specifications - 5034-0F4, 5034-0F4XT (continued)

Attribute	5034-0F4, 5034-0F4XT
Data format	IEEE 754 32-bit floating point
Module conversion method	DAC
Update rate	1 channel: 0.2 ms All channels: 0.4 ms
Step response time to 63% of full scale per channel	Voltage mode: 0.07 ms typical Current mode: 0.4 ms typical
Backplane to screw response time (63% of full scale)	Voltage mode 1 channel: 0.5 ms typical All channels: 1 ms typical Current mode: 1 channel: 0.9 ms typical All channels: 1.4 ms typical
Overvoltage protection, max	32V DC

Table 39. General Specifications - 5034-0F4, 5034-0F4XT

Attribute	5034-0F4, 5034-0F4XT
Number of outputs	4 channels, single-ended Configurable voltage or current mode at channel level
SA power voltage, nom	24V DC
SA power voltage range	10...30V DC
SA power current, nom	100 mA
SA power current, max	0.25 A
SA power current at no load	40 mA
SA reverse polarity protection	Yes
Power dissipation, max	0.95 W
Thermal dissipation, max	3.24 BTU/hr
Isolation voltage	250V (continuous), Basic Insulation Type, System to Field No isolation between SA power and output ports No isolation between individual output ports
Calibration	Factory-calibrated Manual calibration supported, see PointMax Analog I/O Modules User Manual, publication 5034-UM003
RIUP support	Yes
Module to base keying	Electronic keying via programming software
RTB keying	Slot 2, Slot 5, Slot 10
RTB supported	5034-RTB18, 5034-RTB18S
Wiring category ⁽¹⁾	2 - Signal ports 2 - Power ports

Table 39. General Specifications - 5034-OF4, 5034-OF4XT (continued)

Attribute	5034-OF4, 5034-OF4XT
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Indicators	1 green/red module status indicator 1 green/red SA power status indicator 4 yellow/red I/O status indicators
Dimensions (HxWxD), approx	123.6 x 15.0 x 66.4 mm (4.87 x 0.59 x 2.61 in.)
Weight, approx	47.0 g (1.66 oz.) - 5034-OF4 49.0 g (1.73 oz.) - 5034-OF4XT
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

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

Environmental Specifications and Certifications

The following tables provide the environmental specifications and certifications for the PointMax analog I/O modules.

Table 40. Environmental Specifications - PointMax Analog I/O Modules

Attribute	5034-IF8C, 5034-IF8V, 5034-IF4, 5034-IRT4I, 5034-OF4	5034-IF8CXT, 5034-IF8VXT, 5034-IF4XT, 5034-IRT4IXT, 5034-OF4XT
Temperature, operating	IEC 60068-2-1 (Test Ae, Operating Cold), IEC 60068-2-2 (Test Be, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -25 °C ≤ Ta ≤ +60 °C (-13 °F ≤ Ta ≤ +140 °F) for horizontal orientation -25 °C ≤ Ta ≤ +55 °C (-13 °F ≤ Ta ≤ +131 °F) for other orientations	
Temperature, surrounding air, max	60 °C (140 °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)	
Relative humidity	IEC 60068-2-30 (Test Db, Unpackaged Damp Heat): 5...95% noncondensing	
Conformal coated	No	Yes
Corrosive Atmosphere - ASTM B845-97 Method K Accelerated Test (30-Day Exposure) - Plus additional Rockwell Automation proprietary accelerated corrosive environment test protocol for specific industries with sources of gaseous sulfur compounds.	—	Severity Level GX ⁽¹⁾ per ANSI/ISA 71.04-2013, Airborne Contaminants—Gases Severity Level CX per IEC 60721-3-3:2019, Chemically Active Substances
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	
Repetitive shock, operating	IEC 60068-2-27, 25 g, 6 ms duration, 1000 shocks in each ± direction in each 3 axis	
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	
Radiated RF immunity	IEC 61000-4-3: 10V/m with 1 kHz sine wave 80% AM from 80...6000 MHz	
EFT/B immunity	IEC 61000-4-4: ±3 kV @ 5 kHz on signal ports	

Table 40. Environmental Specifications - PointMax Analog I/O Modules (continued)

Attribute	5034-IF8C, 5034-IF8V, 5034-IF4, 5034-IRT4I, 5034-OF4	5034-IF8CXT, 5034-IF8VXT, 5034-IF4XT, 5034-IRT4IXT, 5034-OF4XT
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	

(1) Up to 2100 angstroms of film growth per 30 days of copper and/or silver reactivity.

Table 41. Certifications - PointMax Analog I/O Modules

Certification ⁽¹⁾	5034-IF8C, 5034-IF8CXT, 5034-IF8V, 5034-IF8VXT, 5034-IF4, 5034-IF4XT, 5034-IRT4I, 5034-IRT4IXT, 5034-OF4, 5034-OF4XT
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E322657. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E334470.
UK and CE	UK Statutory Instrument 2016 No. 1091 and European Union 2014/30/EU EMC Directive, compliant with: EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) UK Statutory Instrument 2016 No. 1101 and European Union 2014/35/EU LVD, compliant with: EN 61010-2-201; Control Equipment Safety Requirements UK Statutory Instrument 2012 No. 3032 and European Union 2011/65/EU RoHS, compliant with: EN IEC 63000; Technical documentation
RCM	Australian Radiocommunications Act, compliant with: EN 61000-6-4; Industrial Emissions
Ex	UK Statutory Instrument 2016 No. 1107 and European Union 2014/34/EU ATEX Directive, compliant with: EN IEC 60079-0; General Requirements EN IEC 60079-7; Explosive Atmospheres, Protection "e" II 3 G Ex ec IIC T4 Gc UL 24 ATEX 3272X and UL24UKEX2997X
IECEX	IECEX System, compliant with: IEC 60079-0; General Requirements IEC 60079-7; Explosive Atmospheres, Protection "e" II 3 G Ex ec IIC T4 Gc IECEX UL 24.0066X
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 4
Morocco	Arrêté ministériel n° 6404-15 du 1 er muharram 1437 Arrêté ministériel n° 6404-15 du 29 ramadan 1436
CCC	CNCA-C23-01 强制性产品认证实施规则 防爆电气 CNCA-C23-01 CCC Implementation Rule Explosion-Proof Electrical Products 2025122309123247

(1) When marked. See the Product Certifications website at rok.auto/certifications for declarations of conformity, certificates, and other certification details.

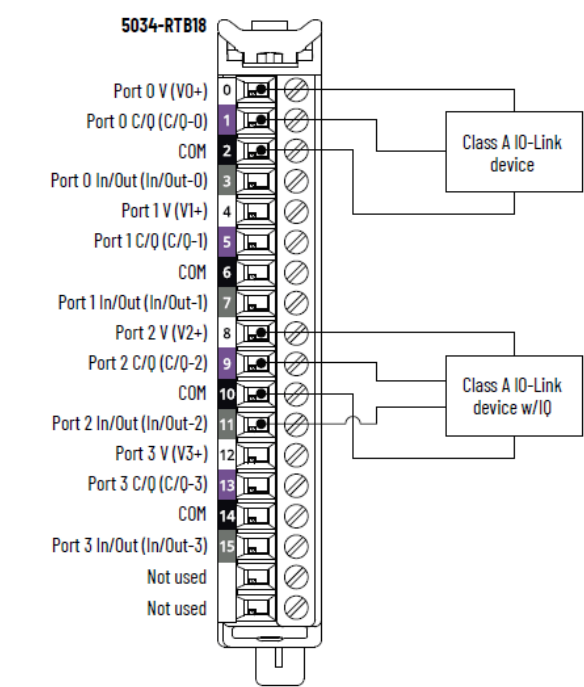
Specialty I/O Module

I/O Type	Catalog Number	Description
IO-Link Master	5034-IOL4, 5034-IOL4XT	IO-Link master 4-channel module

Environmental specifications and certifications for PointMax specialty I/O modules are provided in [Environmental Specifications and Certifications on page 75](#).

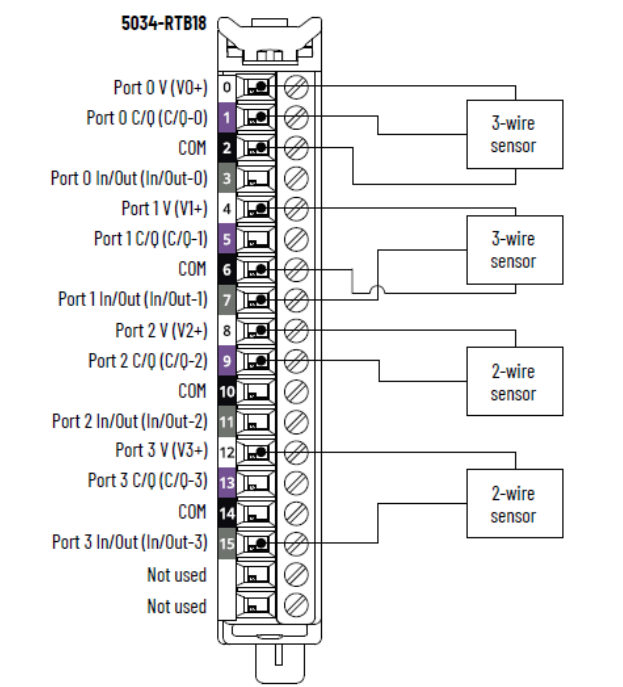
5034-IOL4 and 5034-IOL4XT IO-Link Master 4-channel Module

Figure 35. 5034-IOL4 and 5034-IOL4XT Wiring Diagram – IO-Link Mode



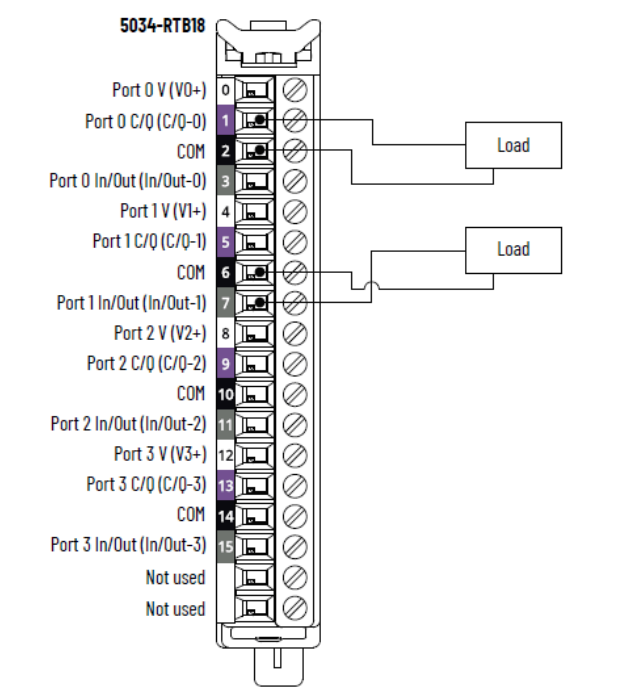
- C/Q = For IO-Link communication, digital input, or digital output
- In/Out (I/Q) = For digital input or digital output

Figure 36. 5034-IOL4 and 5034-IOL4XT Wiring Diagram – DI Mode



- C/Q = For IO-Link communication, digital input, or digital output
- In/Out (I/Q) = For digital input or digital output

Figure 37. 5034-IOL4 and 5034-IOL4XT Wiring Diagram – DO Mode



- C/Q = For IO-Link communication, digital input, or digital output
- In/Out (I/Q) = For digital input or digital output

Figure 38. 5034-IOL4 and 5034-IOL4XT Functional Block Diagram

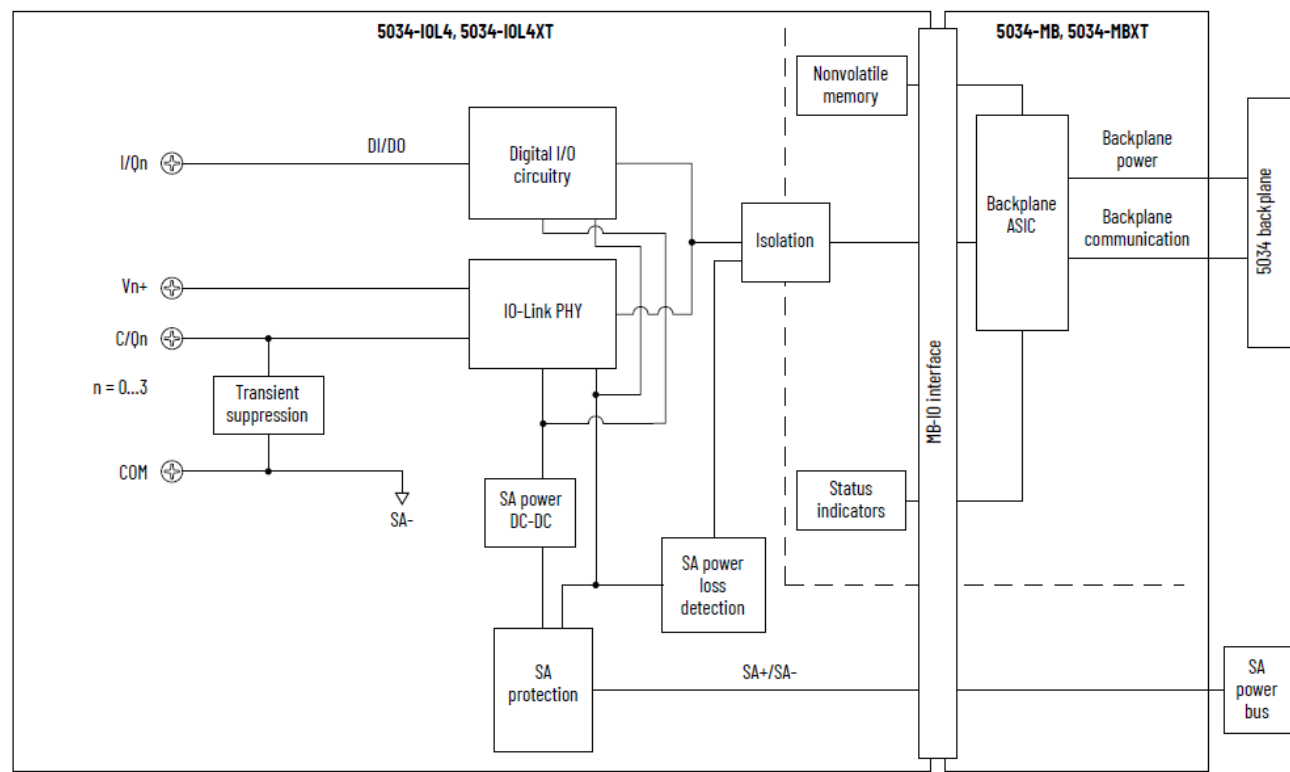


Table 42. Technical Specifications - 5034-IOL4, 5034-IOL4XT - IO-Link Ports

Attribute	5034-IOL4, 5034-IOL4XT
Number of ports	4 Class A ports
Communication speed	4.8 Kbps, 38.4 Kbps, 230.4 Kbps
Voltage rating	20...30V DC
V+ current rating, per port, max	0.5 A
IO-Link device cable length, max	20 m (66 ft)
IO-Link Protocol version	Versions 1.0 and 1.1

Table 43. Technical Specifications - 5034-IOL4, 5034-IOL4XT - Digital Inputs

Attribute	5034-IOL4, 5034-IOL4XT
On-state voltage range Channel 0, 2, 4, 6	11...30V DC - C/Q (in SIO mode)
On-state voltage range Channel 1, 3, 5, 7	10...30V DC - I/Q
On-state current, min Channel 0, 2, 4, 6	2 mA - C/Q (in SIO mode)
On-state current, min Channel 1, 3, 5, 7	2 mA - I/Q

Table 43. Technical Specifications - 5034-IOL4, 5034-IOL4XT - Digital Inputs (continued)

Attribute	5034-IOL4, 5034-IOL4XT
On-state current, nom Channel 0, 2, 4, 6	2.5 mA - C/Q (in SIO mode)
On-state current, nom Channel 1, 3, 5, 7	2.3 mA - I/Q
On-state current, max Channel 0, 2, 4, 6	6.6 mA - C/Q (in SIO mode)
On-state current, max Channel 1, 3, 5, 7	5 mA - I/Q
Off-state voltage, max Channel 0, 2, 4, 6	5V DC - C/Q (in SIO mode)
Off-state voltage, max Channel 1, 3, 5, 7	5V DC - I/Q
Off-state current, max Channel 0, 2, 4, 6	1.5 mA - C/Q (in SIO mode)
Off-state current, max Channel 1, 3, 5, 7	1.5 mA - I/Q
Input impedance, min	1.6 k Ω @ 11V DC - C/Q (in SIO mode) 2 k Ω @ 10V DC - I/Q
Input impedance, nom	9.6 k Ω @ 24V DC - C/Q (in SIO mode) 10.4 k Ω @ 24V DC - I/Q
Input impedance, max	15 k Ω @ 30V DC - C/Q (in SIO mode) 15 k Ω @ 30V DC - I/Q
Input delay time (screw to backplane), max Channel 0, 2, 4, 6 Off-to-On On-to-Off	900 μ s
Input delay time (screw to backplane), max Channel 1, 3, 5, 7 Off-to-On On-to-Off	60 μ s
Input min pulse width Channel 0, 2, 4, 6 Off-to-On On-to-Off	1 ms
Input min pulse width Channel 1, 3, 5, 7 Off-to-On On-to-Off	0.125 ms
Input filter time Channel 0, 2, 4, 6 Off-to-On On-to-Off	0 μ s, 2 ms (default), 5 ms, 10 ms, 20 ms, 50 ms

Table 43. Technical Specifications - 5034-IOL4, 5034-IOL4XT - Digital Inputs (continued)

Attribute	5034-IOL4, 5034-IOL4XT
Input filter time Channel 1, 3, 5, 7 Off-to-On On-to-Off	0 μ s, 100 μ s, 200 μ s, 500 μ s (default), 1 ms, 2 ms, 5 ms, 10 ms, 20 ms, 50 ms The 0 μ s setting is embedded with a 10 μ s filter.
Pulse and period measurements	Not supported
Simple counters, counter frequency Channel 0, 2, 4, 6	0... $f_{\max}$ = 500 Hz
Simple counters, counter frequency Channel 1, 3, 5, 7	0... $f_{\max}$ = 4000 Hz
Timestamp of inputs Channel 0, 2, 4, 6	Yes, ± 500 μ s accuracy
Timestamp of inputs Channel 1, 3, 5, 7	Yes, ± 10 μ s accuracy
CIP Sync	Yes, slave only ordinary clock
Overrides	Not supported
Pulse latching	Yes
Events	Yes
Pattern matching	Yes
Extended counters	Not supported

Table 44. Technical Specifications - 5034-IOL4, 5034-IOL4XT - Digital Outputs

Attribute	5034-IOL4, 5034-IOL4XT
On-state voltage range Channel 0, 2, 4, 6	20...30V DC - C/Q (in SIO mode)
On-state voltage range Channel 1, 3, 5, 7	20...30V DC - I/Q
On-state voltage drop, max Channel 0, 2, 4, 6	0.6V DC - C/Q (in SIO mode)
On-state voltage drop, max Channel 1, 3, 5, 7	0.3V DC - I/Q
On-state current per channel, max Channel 0, 2, 4, 6	250 mA - C/Q (in SIO mode)
On-state current per channel, max Channel 1, 3, 5, 7	500 mA - I/Q
Off-state leakage current per point, max Off-state open wire detection disabled Channel 1, 3, 5, 7 only	0.1 mA

Table 44. Technical Specifications - 5034-IOL4, 5034-IOL4XT – Digital Outputs (continued)

Attribute	5034-IOL4, 5034-IOL4XT
Off-state leakage current per point, max ⁽¹⁾ Off-state open wire detection enabled Channel 1, 3, 5, 7 only	0.5 mA
Surge current per output, max Channel 1, 3, 5, 7	1 A for 10 ms, repeatable every 3 s
Output current rating per module, max	3 A
Output delay time (backplane to screw), max Channel 0, 2, 4, 6 Off-to-On On-to-Off	1 ms
Output delay time (backplane to screw), max Channel 1, 3, 5, 7 Off-to-On On-to-Off	0.15 ms
Open load detection diagnostics Channel 1, 3, 5, 7 only	Yes, configurable (Default is off)
Output short circuit/overload detection Channel 0, 2, 4, 6	Yes
Output short circuit/overload detection Channel 1, 3, 5, 7	Yes

(1) Recommended Loading Resistor - To limit the effects of leakage current through solid-state outputs, you can connect a loading resistor in parallel with your load. For 24V DC operation, use a 5.6 kΩ, 0.5 W resistor for transistor operation.

Table 45. General Specifications - 5034-IOL4, 5034-IOL4XT

Attribute	5034-IOL4, 5034-IOL4XT
Number of inputs/outputs	8 channels, configurable, inclusive of 4x C/Q channels configured to SIO mode, sinking input, sourcing output
SA power voltage, nom	24V DC
SA power voltage range	20...30V DC
SA power current, nom	3.2 A
SA power current, max	3.3 A
SA power current at no load	14 mA
SA reverse polarity protection	Yes
Power dissipation, max ⁽¹⁾	1.04 W
Thermal dissipation, max ⁽¹⁾	3.55 BTU/hr
Isolation voltage	250V (continuous), Basic Insulation Type, System to Field No isolation between SA power and channels No isolation between individual channels
RIUP support	Yes
Module to base keying	Electronic keying via programming software

Table 45. General Specifications - 5034-IOL4, 5034-IOL4XT (continued)

Attribute	5034-IOL4, 5034-IOL4XT
RTB keying	Slot 3, Slot 6, Slot 12
RTB supported	5034-RTB18, 5034-RTB18S
Wiring category ⁽²⁾	2 - Signal ports 2 - Power ports
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Indicators	1 green/red module status indicator 1 green/red SA power status indicator 8 yellow/red I/O status indicators
Dimensions (HxWxD), approx	123.6 x 15.0 x 66.4 mm (4.87 x 0.59 x 2.61 in.)
Weight, approx	48.0 g (1.69 oz.) - 5034-IOL4 51.0 g (1.80 oz.) - 5034-IOL4XT
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

(1) Value is measured at 60 °C (140 °F). Power dissipation varies with temperature.

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

Environmental Specifications and Certifications

The following tables provide the environmental specifications and certifications for the PointMax specialty I/O modules.

Table 46. Environmental Specifications - PointMax Specialty I/O Modules

Attribute	5034-IOL4	5034-IOL4XT
Temperature, operating	IEC 60068-2-1 (Test Ae, Operating Cold), IEC 60068-2-2 (Test Be, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -25 °C ≤ Ta ≤ +60 °C (-13 °F ≤ Ta ≤ +140 °F) for horizontal orientation -25 °C ≤ Ta ≤ +55 °C (-13 °F ≤ Ta ≤ +131 °F) for other orientations	
Temperature, surrounding air, max	60 °C (140 °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)	
Relative humidity	IEC 60068-2-30 (Test Db, Unpackaged Damp Heat): 5...95% noncondensing	
Conformal coated	No	Yes

Table 46. Environmental Specifications - PointMax Specialty I/O Modules (continued)

Attribute	5034-IOL4	5034-IOL4XT
Corrosive Atmosphere - ASTM B845-97 Method K Accelerated Test (30-Day Exposure) - Plus additional Rockwell Automation proprietary accelerated corrosive environment test protocol for specific industries with sources of gaseous sulfur compounds.	—	Severity Level GX ⁽¹⁾ per ANSI/ISA 71.04-2013, Airborne Contaminants—Gases Severity Level CX per IEC 60721-3-3:2019, Chemically Active Substances
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	
Repetitive shock, operating	IEC 60068-2-27, 25 g, 6 ms duration, 1000 shocks in each ± direction in each 3 axis	
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	
Radiated RF immunity	IEC 61000-4-3: 10V/m with 1 kHz sine wave 80% AM from 80...6000 MHz	
EFT/B immunity	IEC 61000-4-4: ±3 kV @ 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	

(1) Up to 2100 angstroms of film growth per 30 days of copper and/or silver reactivity.

Table 47. Certifications - PointMax Specialty I/O Modules

Certification ⁽¹⁾	5034-IOL4, 5034-IOL4XT
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E322657. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E334470.

Table 47. Certifications - PointMax Specialty I/O Modules (continued)

Certification⁽¹⁾	5034-IOL4, 5034-IOL4XT
UK and CE	UK Statutory Instrument 2016 No. 1091 and European Union 2014/30/EU EMC Directive, compliant with: EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) UK Statutory Instrument 2016 No. 1101 and European Union 2014/35/EU LVD, compliant with: EN 61010-2-201; Control Equipment Safety Requirements UK Statutory Instrument 2012 No. 3032 and European Union 2011/65/EU RoHS, compliant with: EN IEC 63000; Technical documentation
RCM	Australian Radiocommunications Act, compliant with: EN 61000-6-4; Industrial Emissions
Ex	UK Statutory Instrument 2016 No. 1107 and European Union 2014/34/EU ATEX Directive, compliant with: EN IEC 60079-0; General Requirements EN IEC 60079-7; Explosive Atmospheres, Protection "e" II 3 G Ex ec IIC T4 Gc UL 24 ATEX 3272X and UL24UKEX2997X
IECEx	IECEx System, compliant with: IEC 60079-0; General Requirements IEC 60079-7; Explosive Atmospheres, Protection "e" II 3 G Ex ec IIC T4 Gc IECEx UL 24.0066X
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 4
Morocco	Arrêté ministériel n° 6404-15 du 1 ^{er} muharram 1437 Arrêté ministériel n° 6404-15 du 29 ramadan 1436
CCC	CNCA-C23-01 强制性产品认证实施规则 防爆电气 CNCA-C23-01 CCC Implementation Rule Explosion-Proof Electrical Products 2025122309123247

(1) When marked. See the Product Certifications website at rok.auto/certifications for declarations of conformity, certificates, and other certification details.

Expansion Power

Module Type	Catalog Number	Description
Expansion Power	5034-EXP, 5034-EXPXT	Expansion power for module power and SA power

Environmental specifications and certifications for PointMax expansion power are provided in [Environmental Specifications and Certifications on page 80](#).

5034-EXP and 5034-EXPXT Expansion Power

Figure 39. 5034-EXP and 5034-EXPXT Diagram

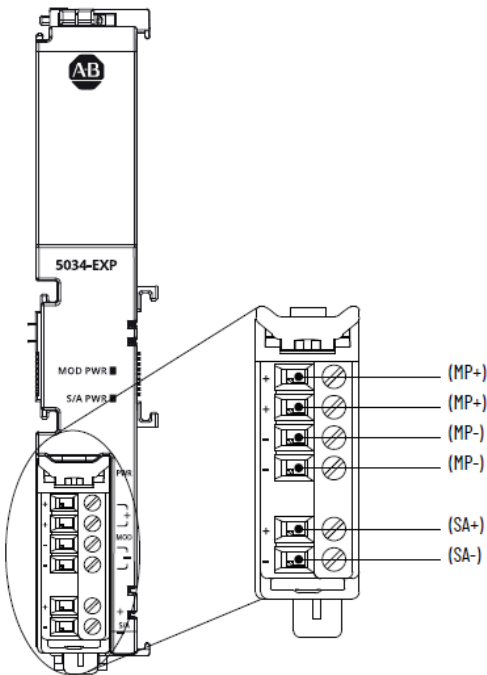


Table 48. General Specifications - 5034-EXP, 5034-EXPXT

Attribute	5034-EXP, 5034-EXPXT
Number of MB supported	16 for 18...30V DC 8 for 10...18V DC
MP voltage, nom	24V DC, SELV
MP voltage range	10...30V DC, SELV
MP current, nom	420 mA @ 24V DC
MP current, max	550 mA @ 10 V DC (8 MB) 590 mA @ 18 V DC (16 MB) 370 mA @ 30 V DC (16 MB)
MP inrush current, max	6 A for 10 ms @ 24V DC SELV
SA power operating voltage range	10...30V DC, SELV

Table 48. General Specifications - 5034-EXP, 5034-EXPXT (continued)

Attribute	5034-EXP, 5034-EXPXT
SA power current, max	10 A Do not exceed 10 A current draw at the SA power RTB.
SA power current at no load	2 mA
BP voltage	16V DC
BP current, max	250 mA (8 MB) 500 mA (16 MB)
Power dissipation, max	1.7 W
Thermal dissipation, max	5.8 BTU/hr
Isolation voltage	250V (continuous), Basic Isolation, SA to backplane 250V (continuous), Basic Isolation, SA to MP 60V (continuous), Basic Isolation, MP to backplane
RTB supported	An RTB ships with the expansion power. You can order additional screw-type (5034-AENRTB-QTY5) and push-in spring-type (5034-AENRTBS-QTY5) separately.
Wiring category ⁽¹⁾	2 - Power ports
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Indicators	1 green module power status indicator 1 green SA power status indicator
Dimensions (HxWxD), approx	131.7 x 20.0 x 75 mm (5.19 x 0.79 x 2.95 in.)
Weight, approx	109 g (3.84 oz.) – 5034-EXP 111 g (3.91 oz.) – 5034-EXPXT
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

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

Environmental Specifications and Certifications

The following tables provide the environmental specifications and certifications for the PointMax expansion power.

Table 49. Environmental Specifications - PointMax Expansion Power

Attribute	5034-EXP	5034-EXPXT
Temperature, operating	IEC 60068-2-1 (Test Ae, Operating Cold), IEC 60068-2-2 (Test Be, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -25 °C ≤ Ta ≤ +60 °C (-13 °F ≤ Ta ≤ +140 °F) for horizontal orientation -25 °C ≤ Ta ≤ +55 °C (-13 °F ≤ Ta ≤ +131 °F) for other orientations	
Temperature, surrounding air, max	60 °C (140 °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)	
Relative humidity	IEC 60068-2-30 (Test Db, Unpackaged Damp Heat): 5...95% noncondensing	
Conformal coated	No	Yes
Corrosive Atmosphere - ASTM B845-97 Method K Accelerated Test (30-Day Exposure) - Plus additional Rockwell Automation proprietary accelerated corrosive environment test protocol for specific industries with sources of gaseous sulfur compounds.	—	Severity Level GX ⁽¹⁾ per ANSI/ISA 71.04-2013, Airborne Contaminants—Gases Severity Level CX per IEC 60721-3-3:2019, Chemically Active Substances
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	
Repetitive shock, operating	IEC 60068-2-27, 25 g, 6 ms duration, 1000 shocks in each ± direction in each 3 axis	
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	
Radiated RF immunity	IEC 61000-4-3: 10V/m with 1 kHz sine wave 80% AM from 80...6000 MHz	
EFT/B immunity	IEC 61000-4-4: ±3 kV @ 5 kHz on power ports	

Table 49. Environmental Specifications - PointMax Expansion Power (continued)

Attribute	5034-EXP	5034-EXPXT
Surge transient immunity	IEC 61000-4-5: ±1 kV line-line (DM) and ±2 kV line-earth (CM) on power ports	
Conducted RF immunity	IEC 61000-4-6: 10V rms with 1 kHz sine wave 80% AM from 150 kHz...80 MHz	
Voltage dips and variations	IEC 61000-4-29: 10 ms interruption on MP ports	

(1) Up to 2100 angstroms of film growth per 30 days of copper and/or silver reactivity.

Table 50. Certifications - PointMax Expansion Power

Certification ⁽¹⁾	5034-EXP, 5034-EXPXT
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E322657. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E334470.
UK and CE	UK Statutory Instrument 2016 No. 1091 and European Union 2014/30/EU EMC Directive, compliant with: EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) UK Statutory Instrument 2016 No. 1101 and European Union 2014/35/EU LVD, compliant with: EN 61010-2-201; Control Equipment Safety Requirements UK Statutory Instrument 2012 No. 3032 and European Union 2011/65/EU RoHS, compliant with: EN IEC 63000; Technical documentation
RCM	Australian Radiocommunications Act, compliant with: EN 61000-6-4; Industrial Emissions
Ex	UK Statutory Instrument 2016 No. 1107 and European Union 2014/34/EU ATEX Directive, compliant with: EN IEC 60079-0; General Requirements EN IEC 60079-7; Explosive Atmospheres, Protection "e" II 3 G Ex ec IIC T4 Gc UL 24 ATEX 3272X and UL24UKEX2997X
IECEx	IECEx System, compliant with: IEC 60079-0; General Requirements IEC 60079-7; Explosive Atmospheres, Protection "e" II 3 G Ex ec IIC T4 Gc IECEx UL 24.0066X
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 4
Morocco	Arrêté ministériel n° 6404-15 du 1 ^{er} muharram 1437 Arrêté ministériel n° 6404-15 du 29 ramadan 1436
CCC	CNCA-C23-01 强制性产品认证实施规则 防爆电气 CNCA-C23-01 CCC Implementation Rule Explosion-Proof Electrical Products 2025122309123247

(1) When marked. See the Product Certifications website at rok.auto/certifications for declarations of conformity, certificates, and other certification details.

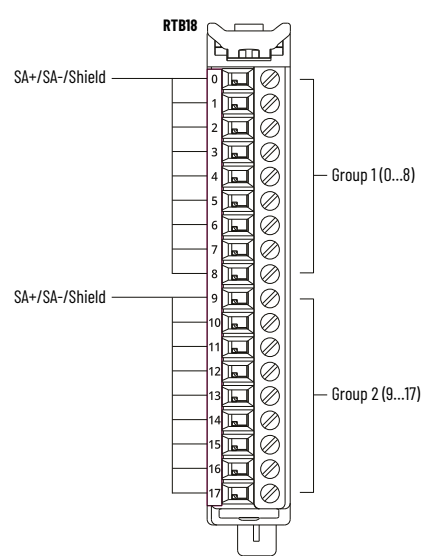
Power Terminal Module

Module Type	Catalog Number	Description
Power Terminal Module	5034-MBPTM, 5034-MBPTMXT	Power terminal module with base

Environmental specifications and certifications for PointMax power terminal module are provided in [Environmental Specifications and Certifications on page 83](#).

5034-MBPTM and 5034-MBPTMXT Power Terminal Module with Base

Figure 40. 5034-MBPTM and 5034-MBPTMXT Wiring Diagram



- You can install only one 5034-MBPTM or 5034-MBPTMXT to the right of each I/O module.
 - For 5034-IB16 and 5034-IB16XT only – You can install two consecutive 5034-MBPTM or 5034-MBPTMXT to the right of the module for 3-wire sensor applications.
- All nine terminals in each group are shorted.
- Each group can be connected to either SA+, SA-, or shield terminals from an external source.
- In each group, one terminal serves as the feeder and the other eight terminals function as outputs.

Table 51. General Specifications - 5034-MBPTM, 5034-MBPTMXT

Attribute	5034-MBPTM, 5034-MBPTMXT
SA power voltage, nom	24V DC
SA power voltage range	10...30V DC, SELV
SA power current, per terminal group, max	10 A
Isolation voltage	250V AC basic insulation between terminal group 1 and terminal group 2
RTB keying	Slot 3, Slot 6, Slot 11
RTB supported	5034-RTB18, 5034-RTB18S
Wiring category ⁽¹⁾	2 - Power ports

Table 51. General Specifications - 5034-MBPTM, 5034-MBPTMXT (continued)

Attribute	5034-MBPTM, 5034-MBPTMXT
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Dimensions (HxWxD), approx	132 x 15 x 75 mm (5.2 x 0.59 x 2.95 in.)
Weight, approx	65.0 g (2.29 oz.) – MBPTM 67.0 g (2.36 oz.) – MBPTMXT
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

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

Environmental Specifications and Certifications

The following tables provide the environmental specifications and certifications for the PointMax mounting base with potential power terminal module.

Table 52. Environmental Specifications - PointMax Mounting Base with Potential Power Terminal Module

Attribute	5034-MBPTM	5034-MBPTMXT
Temperature, operating	IEC 60068-2-1 (Test Ae, Operating Cold), IEC 60068-2-2 (Test Be, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -25 °C ≤ Ta ≤ +60 °C (-13 °F ≤ Ta ≤ +140 °F) for horizontal orientation -25 °C ≤ Ta ≤ +55 °C (-13 °F ≤ Ta ≤ +131 °F) for other orientations	
Temperature, surrounding air, max	60 °C (140 °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)	
Relative humidity	IEC 60068-2-30 (Test Db, Unpackaged Damp Heat): 5...95% noncondensing	
Conformal coated	No	Yes
Corrosive Atmosphere - ASTM B845-97 Method K Accelerated Test (30-Day Exposure) - Plus additional Rockwell Automation proprietary accelerated corrosive environment test protocol for specific industries with sources of gaseous sulfur compounds.	—	Severity Level GX ⁽¹⁾ per ANSI/ISA 71.04-2013, Airborne Contaminants—Gases Severity Level CX per IEC 60721-3-3:2019, Chemically Active Substances
Vibration	IEC 60068-2-6 (Test Fc, Operating): 5 g @ 10...500 Hz	

Table 52. Environmental Specifications - PointMax Mounting Base with Potential Power Terminal Module (continued)

Attribute	5034-MBPTM	5034-MBPTMX
Shock, operating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 30 g	
Repetitive shock, operating	IEC 60068-2-27, 25 g, 6 ms duration, 1000 shocks in each $\pm$ direction in each 3 axis	
Shock, nonoperating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 50 g	

(1) Up to 2100 angstroms of film growth per 30 days of copper and/or silver reactivity.

Table 53. Certifications - PointMax Mounting Base with Potential Power Terminal Module

Certification ⁽¹⁾	5034-MBPTM, 5034-MBPTMX
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E322657. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E334470.
UK and CE	UK Statutory Instrument 2016 No. 1091 and European Union 2014/30/EU EMC Directive, compliant with: EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) UK Statutory Instrument 2016 No. 1101 and European Union 2014/35/EU LVD, compliant with: EN 61010-2-201; Control Equipment Safety Requirements UK Statutory Instrument 2012 No. 3032 and European Union 2011/65/EU RoHS, compliant with: EN IEC 63000; Technical documentation
RCM	Australian Radiocommunications Act, compliant with: EN 61000-6-4; Industrial Emissions
Ex	UK Statutory Instrument 2016 No. 1107 and European Union 2014/34/EU ATEX Directive, compliant with: EN IEC 60079-0; General Requirements EN IEC 60079-7; Explosive Atmospheres, Protection "e" II 3 G Ex ec IIC T4 Gc UL 24 ATEX 3272X and UL24UKEX2997X
IECEx	IECEx System, compliant with: IEC 60079-0; General Requirements IEC 60079-7; Explosive Atmospheres, Protection "e" II 3 G Ex ec IIC T4 Gc IECEx UL 24.0066X
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 4
Morocco	Arrêté ministériel n° 6404-15 du 1 ^{er} muharram 1437 Arrêté ministériel n° 6404-15 du 29 ramadan 1436
CCC	CNCA-C23-01 强制性产品认证实施规则 防爆电气 CNCA-C23-01 CCC Implementation Rule Explosion-Proof Electrical Products 2025122309123247

(1) When marked. See the Product Certifications website at rok.auto/certifications for declarations of conformity, certificates, and other certification details.

Removable Terminal Blocks

The I/O modules require an MB paired with an RTB to connect field-side wiring.

Type	Catalog Number	Description
Removable Terminal Block	5034-RTB2, 5034-RTB2S	Removable terminal block 2-terminals (screw-type and push-in spring-type)
	5034-RTB6, 5034-RTB6S	Removable terminal block 6-terminals (screw-type and push-in spring-type)
	5034-RTB18, 5034-RTB18S	Removable terminal block 18-terminals (screw-type and push-in spring-type)
	5034-RTB24S	Removable terminal block 24-terminals (push-in spring-type)
	5034-RTBT, 5034-RTBTS	Removable terminal block with CJC 18-terminals (screw-type and push-in-spring-type)

Environmental specifications and certifications for PointMax removable terminal blocks are provided in [Environmental Specifications on page 90](#).

5034-RTB2 and 5034-RTB2S Removable Terminal Blocks

Use these RTBs with the 5034-MBSA and 5034-MBSAXT mounting bases. These catalogs are not available for purchase individually. They can only be ordered in a pack of 5 (5034-RTB2-QTY5 or RTB2S-QTY5).

Figure 41. 5034-RTB2 and 5034-RTB2S Diagram

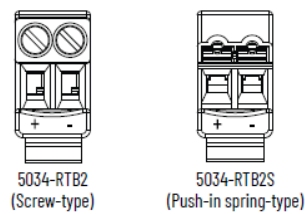


Table 54. General Specifications - 5034-RTB2, 5034-RTB2S

Attribute	5034-RTB2, 5034-RTB2S
Voltage rating	240V AC
Current rating per position at 60 °C (140 °F)	10 A
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Dimensions (HxWxD), approx	18.6 x 9.3 x 21.15 mm (0.73 x 0.37 x 0.83 in.)
Weight, approx	3.5 g (0.12 oz.) - 5034-RTB2 2.1 g (0.07 oz.) - 5034-RTB2S
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

5034-RTB6 and 5034-RTB6S Removable Terminal Blocks

Use these RTBs with the 5034-AENTR and 5034-AENTRXT EtherNet/IP adapter or the 5034-EXP and 5034-EXPXT expansion power. These catalogs are not available for purchase individually. They can only be ordered in a pack of 5 (5034-AENRTB-QTY5 or 5034-AENRTBS-QTY5).

Figure 42. 5034-RTB6 and 5034-RTB6S Diagram

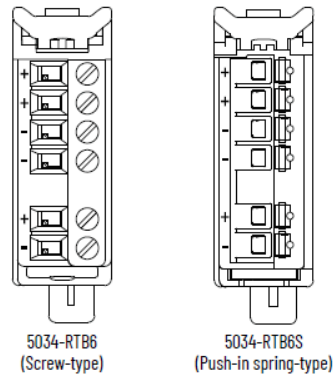


Table 55. General Specifications - 5034-RTB6, 5034-RTB6S

Attribute	5034-RTB6, 5034-RTB6S
Voltage rating	240V AC
Current, max	10 A
Current rating per position at 60 °C (140 °F)	Positions 0...3: 2 A Positions 4 and 5: 10 A
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Dimensions (HxWxD), approx	46.6 x 14.7 x 31.3 mm (1.83 x 0.58 x 1.23 in.)
Weight, approx	11.2 g (0.39 oz.) - 5034-RTB6 7.9 g (0.28 oz.) - 5034-RTB6S
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

5034-RTB18 and 5034-RTB18S Removable Terminal Blocks

Figure 43. 5034-RTB18 and 5034-RTB18S Diagram

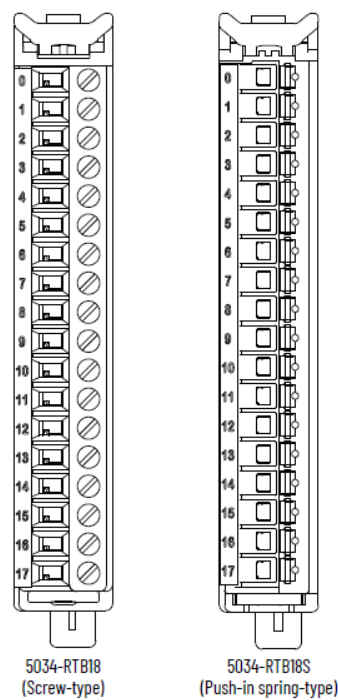


Table 56. General Specifications - 5034-RTB18, 5034-RTB18S

Attribute	5034-RTB18, 5034-RTB18S
Voltage rating	240V AC
Current, max	10 A
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Dimensions (HxWxD), approx	93.8 x 14.7 x 31.3 mm (3.69 x 0.58 x 1.23 in.)
Weight, approx	28 g (0.99 oz.) – 5034-RTB18 18 g (0.63 oz.) – 5034-RTB18S
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

5034-RTB24S Removable Terminal Blocks

Figure 44. 5034-RTB24S Diagram

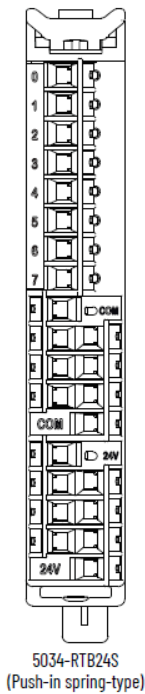


Table 57. General Specifications - 5034-RTB24S

Attribute	5034-RTB24S
Voltage rating	240V AC
Current, max	10 A
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Dimensions (HxWxD), approx	93.8 x 14.7 x 31.3 mm (3.69 x 0.58 x 1.23 in.)
Weight, approx	20 g (0.70 oz.)
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

5034-RTBT and 5034-RTBTS Removable Terminal Blocks with CJC

Use these RTBs with the 5034-IRT4I and 5034-IRT4IXT analog 4 input isolated RTD/TC modules to help achieve better accuracy.

Figure 45. 5034-RTBT and 5034-RTBTS Diagram

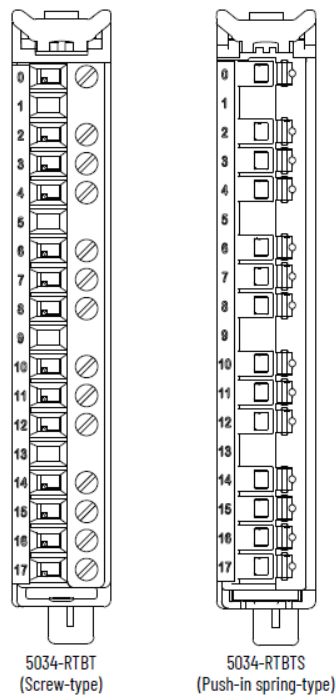


Table 58. General Specifications - 5034-RTBT, 5034-RTBTS

Attribute	5034-RTBT, 5034-RTBTS
Voltage rating	240V AC
Current, max	10 A
Wiring specification	See Wiring Specifications for Removable Terminal Blocks on page 91
Dimensions (HxWxD), approx	93.8 x 14.7 x 31.3 mm (3.69 x 0.58 x 1.23 in.)
Weight, approx	27.0 g (0.95 oz.) - 5034-RTBT 17.0 g (0.60 oz.) - 5034-RTBTS
Enclosure type	None (Open-style)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEx temp code	T4

Environmental Specifications

The following table provides the environmental specifications for the PointMax removable terminal blocks.

Table 59. Environmental Specifications - PointMax Removable Terminal Blocks

Attribute	5034-RTB2, 5034-RTB2S, 5034-RTB6, 5034-RTB6S, 5034-RTB18, 5034-RTB18S, 5034-RTB24S, 5034-RTBT, 5034-RTBTs
Temperature, operating	IEC 60068-2-1 (Test Ae, Operating Cold), IEC 60068-2-2 (Test Be, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -25 °C ≤ Ta ≤ +60 °C (-13 °F ≤ Ta ≤ +140 °F) for horizontal orientation -25 °C ≤ Ta ≤ +55 °C (-13 °F ≤ Ta ≤ +131 °F) for other orientations
Temperature, surrounding air, max	60 °C (140 °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)
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
Repetitive shock, operating	IEC 60068-2-27, 25 g, 6 ms duration, 1000 shocks in each ± direction in each 3 axis
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
Radiated RF immunity	IEC 61000-4-3: 10V/m with 1 kHz sine wave 80% AM from 80...6000 MHz
EFT/B immunity	IEC 61000-4-4: ±3 kV @ 5 kHz on signal ports
Surge transient immunity	IEC 61000-4-5: ±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

Wiring Specifications for Removable Terminal Blocks

These wiring specifications apply to all PointMax removable terminal blocks – 5034-RTB2, 5034-RTB2S, 5034-RTB6, 5034-RTB6S, 5034-RTB18, 5034-RTB18S, 5034-RTB24S, 5034-RTBT, 5034-RTBTS.

Wire conductor and insulation rating must support a minimum temperature rating of 105 °C (221 °F). The tightening torque value for screw-type RTBs is 0.22...0.25 N•m (1.95...2.21 lb•in.).

Table 60. Wiring Specification – 1-wire

Wire Type	Wire Range
Stranded and solid copper	0.34...1.5 mm ² (22...16 AWG)

Screw RTB tightening torque: 0.22...0.25 N•m (1.95...2.21 lb•in.)

Recommended strip length: 10 ± 0.4 mm (± 0.016 in.)

Table 61. Wiring Specification – 1-wire with Plastic Sleeve Ferrule

Wire Type	Wire Range	Ferrule Length	Example
Stranded copper	0.5...1.5 mm ² (20...16 AWG)	10 mm (0.39 in.) ⁽¹⁾	
Stranded copper	0.34 mm ² (22 AWG)	8 mm (0.31 in.) ⁽²⁾	

Recommended crimper: Phoenix Contact Crimpfox 6, Weidmuller PZ 6 Roto, and TE 539660-1

Recommended strip length: See ferrule manufacturer's recommendation.

(1) DIN standard: 46228-4

(2) Non-DIN standard application

Table 62. Wiring Specification – 1-wire with Non-plastic Sleeve Ferrule

Wire Type	Wire Range	Ferrule Length	Example
Stranded copper	0.5...1.5 mm ² (20...16 AWG)	10 mm (0.39 in.) ⁽¹⁾	
Stranded copper	0.34 mm ² (22 AWG)	7 mm (0.28 in.) ⁽²⁾	

Recommended crimper: Phoenix Contact Crimpfox 6, Weidmuller PZ 6 Roto, and TE 539660-1

Recommended strip length: See ferrule manufacturer's recommendation.

(1) DIN standard: 46228-4

(2) Non-DIN standard application

Accessories

Catalog Number	Description
5034-AENRTB-QTY5 5034-AENRTBS-QTY5	6-pin RTB (Qty. 5) for EtherNet/IP adapter and expansion power
5034-RTB2-QTY5 5034-RTB2S-QTY5	2-pin RTB (Qty. 5) for mounting base 15 mm (0.59 in.) with SA power
5034-ECR-QTY5	I/O system end cap (Qty. 5)
5034-CM18-IB16-QTY5 5034-CM18-OB16-QTY5 5034-CM18-IB8-QTY5 5034-CM18-IB8S-QTY5 5034-CM18-OB8-QTY5 5034-CM18-IF4-QTY5 5034-CM18-OF4-QTY5 5034-CM18-IF8C-QTY5 5034-CM18-IF8V-QTY5 5034-CM18-IRT4I-QTY5 5034-CM18-OW4I-QTY5 5034-CM18-IOL4-QTY5 5034-CM18-MBPTM-QTY5 5034-CM24-IF8-QTY5 5034-CM24-IB8-QTY5	Color markers for RTB (Qty. 5)
5034-KEY-QTY5	RTB insertable key (Qty. 5)
5034-SHIELD-QTY5	1-wire shield clamp (Qty. 5)
5034-WIREHLD-QTY5	Wire or cable holder (Qty. 5)
5034-N	Protective blank cover

5034-AENRTB-QTY5 and 5034-AENRTBS-QTY5 RTB for EtherNet/IP Adapter and Expansion Power

Use these catalog numbers to order additional screw-type (5034-RTB6) or push-in spring-type (5034-RTB6S) RTBs for use with the 5034-AENTR and 5034-AENTRXT EtherNet/IP adapters, and 5034-EXP and 5034-EXPXT expansion power. Each RTB is available in a pack of five units.

For specifications, see [5034-RTB6 and 5034-RTB6S Removable Terminal Blocks on page 86](#).

5034-RTB2-QTY5 and 5034-RTB2S-QTY5 RTB for MBSA Mounting Base

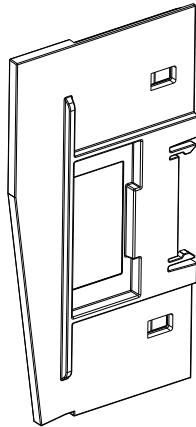
Use these catalog numbers to order additional screw-type (5034-RTB2) or push-in spring-type (5034-RTB2S) RTBs for use with the 5034-MBSA and 5034-MBSAXT mounting bases. Each RTB is available in a pack of five units.

For specifications, see [5034-RTB2 and 5034-RTB2S Removable Terminal Blocks on page 85](#).

5034-ECR-QTY5 End Cap

Use this catalog number to order additional end caps. Install an end cap to cover the exposed interconnections on the adapter or the last mounting base on the DIN rail. The end cap is available in a pack of five units.

Figure 46. 5034-ECR Diagram



5034-CM18 and 5034-CM24 Color Markers for Removable Terminal Blocks

Use color markers to help you identify the type of I/O module that an RTB is used with. Each color marker is available in a pack of five units.

Figure 47. 5034-CM18 and 5034-CM24 Diagram

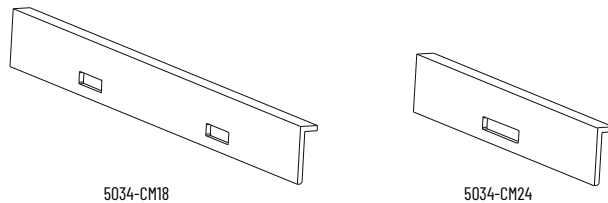


Table 63. Color Markers for RTBs

Catalog Number	Use with RTB	Description
5034-CM18-IB16-QTY5	5034-RTB18, 5034-RTB18S	Color marker for 5034-IB16 and 5034-IB16XT (Qty. 5)
5034-CM18-OB16-QTY5	5034-RTB18, 5034-RTB18S	Color marker for 5034-OB16 and 5034-OB16XT (Qty. 5)
5034-CM18-IB8-QTY5	5034-RTB18, 5034-RTB18S	Color marker for 5034-IB8 and 5034-IB8XT (Qty. 5)
5034-CM18-IB8S-QTY5	5034-RTB18, 5034-RTB18S	Color marker for 5034-IB8S and 5034-IB8SXT (Qty. 5)
5034-CM18-OB8-QTY5	5034-RTB18, 5034-RTB18S	Color marker for 5034-OB8, 5034-OB8XT, 5034-OB8S, and 5034-OB8SXT (Qty. 5)
5034-CM18-IF4-QTY5	5034-RTB18, 5034-RTB18S	Color marker for 5034-IF4 and 5034-IF4XT (Qty. 5)
5034-CM18-OF4-QTY5	5034-RTB18, 5034-RTB18S	Color marker for 5034-OF4 and 5034-OF4XT (Qty. 5)
5034-CM18-IF8C-QTY5	5034-RTB18, 5034-RTB18S	Color marker for 5034-IF8C and 5034-IF8CXT (Qty. 5)
5034-CM18-IF8V-QTY5	5034-RTB18, 5034-RTB18S	Color marker for 5034-IF8V and 5034-IF8VXT (Qty. 5)
5034-CM18-IRT4I-QTY5	5034-RTB18, 5034-RTB18S 5034-RTBT, 5034-RTBTS	Color marker for 5034-IRT4I and 5034-IRT4IXT (Qty. 5)

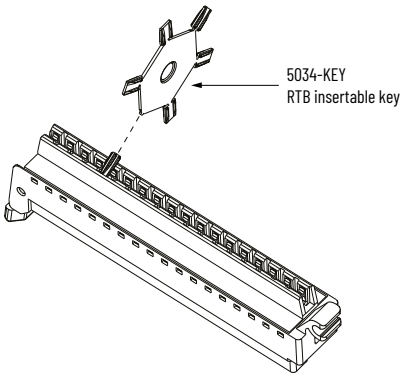
Table 63. Color Markers for RTBs (continued)

Catalog Number	Use with RTB	Description
5034-CM18-OW4I-QTY5	5034-RTB18, 5034-RTB18S	Color marker for 5034-OW4I and 5034-OW4IXT (Qty. 5)
5034-CM18-IOL4-QTY5	5034-RTB18, 5034-RTB18S	Color marker for 5034-IOL4 and 5034-IOL4XT (Qty. 5)
5034-CM18-MBPTM-QTY5	5034-RTB18, 5034-RTB18S	Color marker for 5034-MBPTM and 5034-MBPTMXT (Qty. 5)
5034-CM24-IF8-QTY5	5034-RTB24S	Color marker for 5034-IF8C, 5034-IF8CXT, 5034-IF8V, and 5034-IF8VXT (Qty. 5)
5034-CM24-IB8-QTY5	5034-RTB24S	Color marker for 5034-IB8 and 5034-IB8XT (Qty. 5)

5034-KEY-QTY5 Insertable Key for Removable Terminal Blocks

Use an insertable key to match an RTB to a type of I/O module. The insertable key is available in a pack of five units. For the RTB key positions of each I/O module, see the PointMax I/O System Installation Instructions, publication [5034-IN001](#).

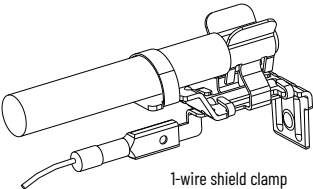
Figure 48. 5034-KEY Diagram



5034-SHIELD-QTY5 Shield Clamp

The shield clamp is available in a pack of five units.

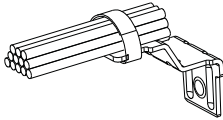
Figure 49. 5034-SHIELD Diagram



5034-WIREHLD-QTY5 Wire Holder

The wire holder is available in a pack of five units.

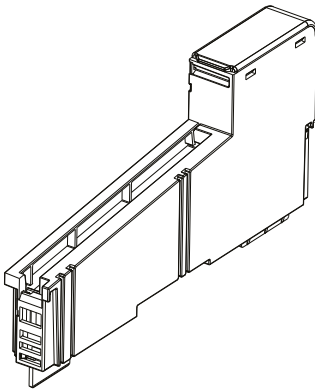
Figure 50. 5034-WIREHLD Diagram



5034-N Protective Blank Cover

Use the protective blank cover to occupy an empty slot in an I/O chassis, typically where an MB is installed but no I/O module is present. The protective blank cover can be used to hold an RTB in place. The protective blank cover contains no electronics.

Figure 51. 5034-N Diagram



Additional Resources

These documents contain additional information concerning related products from Rockwell Automation. You can view or download publications at rok.auto/literature.

Table 64. Additional Resources

Resources	Description
PointMax I/O System Installation Instructions, publication 5034-IN001	Provides instructions on installing a complete PointMax I/O system.
PointMax EtherNet/IP Adapter User Manual, publication 5034-UM001	Provides information on how to configure and operate PointMax EtherNet/IP adapters.
PointMax Digital I/O Modules User Manual, publication 5034-UM002	Provides information on how to configure and operate PointMax digital I/O modules.
PointMax Analog I/O Modules User Manual, publication 5034-UM003	Provides information on how to configure and operate PointMax analog I/O modules.
PointMax IO-Link Master Module User Manual, publication 5034-UM004	Provides information on how to configure and operate PointMax IO-Link master modules.
EtherNet/IP Network Devices User Manual, publication ENET-UM006	Describes how to configure and use EtherNet/IP devices to communicate on the EtherNet/IP network.
Ethernet Reference Manual, publication ENET-RM002	Describes basic Ethernet concepts, infrastructure components, and infrastructure features.
System Security Design Guidelines Reference Manual, publication SECURE-RM001	Provides guidance on how to conduct security assessments, implement Rockwell Automation® products in a secure system, harden the control system, manage user access, and dispose of equipment.
Safety Guidelines for the Application, Installation, and Maintenance of Solid-state Control, publication SGI-1.1	Designed to harmonize with NEMA Standards Publication No. ICS 1.1-1987 and provides general guidelines for the application, installation, and maintenance of solid-state control in the form of individual devices or packaged assemblies incorporating solid-state components.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Selection and Configuration tools website, rok.auto/systemtools	Helps configure complete, valid catalog numbers and build complete quotes based on detailed product information.
Product Certifications website, rok.auto/certifications	Provides declarations of conformity, certificates, and other certification details.

Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, and product notification updates.	rok.auto/support
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Technical Documentation Center	Quickly access and download technical specifications, installation instructions, and user manuals.	rok.auto/techdocs
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Get help determining how products interact, check features and capabilities, and find associated firmware.	rok.auto/pcdc

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Waste Electrical and Electronic Equipment (WEEE)



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