



EtherNet/IP In-cabinet System

Catalog Numbers 100-E-INT, 100-E-INT-D, 100-E-INT-X, 104-E-INT-D, 104-E-INT-X, 800F-INT, 800F-INT-L, 1486-CBL-10M, 1486-CBL-25M, 1486-CBL-100M, 1486-CON-D1, 1486-CON-P1, 1486-CON-P2L, 1486-CON-P2R, 1486-CON-S1, 1486-CON-T1, 1834-AENTR

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Introduction

The EtherNet/IP™ in-cabinet system is a low cost in-cabinet technology that provides a secure infrastructure to access identity, state, runtime, and maintenance information from devices in the control panel. The EtherNet/IP in-cabinet system eliminates control wiring, reduces panel space requirements, and reduces commissioning efforts. Advantages of an EtherNet/IP in-cabinet system include:

- Reduced engineering and testing time
- Single cable with power and data with the use of the 1486-CBL flat media cable
- CIP Security™
- Peer-to-peer functionality
- SKU reduction with interchangeable standard components
- Plug and play (PnP) installation which eliminates control and module power wiring
- Up to 10% reduction in cabinet size
- Fully integrated with Logix Designer/Studio 5000®
- Enhanced productivity/reduced downtime with device-level diagnostics and data
- Simplified commissioning and troubleshooting

An EtherNet/IP in-cabinet system is a linear bus with up to 25 meters (82 feet) connectivity and up to 40 connected nodes. The bus incorporates an integrated device power bus and an integrated power bus for powering device auxiliary circuits such that all devices only need a single wired connection. The EtherNet/IP in-cabinet system consists of the following system components:

- Cat. No. 100-E and 104-E contactor communication interface modules to connect components to the system
- Cat. No. 800F-INT push button communication interface modules for use with standard 800F panel operators and latches
- Cat. No. 1486-CBL flat media cable that passes power and signal to and from communication interface devices in a multi-drop bus topology
- Cat. No. 1486-CON connectors to connect all of the system components
- Cat. No. 1834-AENTR gateway, the primary network power source of the EtherNet in-cabinet system, connects the devices on the EtherNet in-cabinet system bus to a standard Ethernet network

The individual devices on the EtherNet/IP in-cabinet system bus appear as devices in the 'Controller Organizer' of the controller project and automatically-generated I/O tags.

100-E and 104-E Contactor Communication Interface Modules

A component of the EtherNet/IP in-cabinet system, contactor communication interface modules (Cat. No. 100-E-INT, 100-E-INT-X, 104-E-INT, and 104-E-INT-X) enhance a 100-E industrial in-cabinet device for electrical control and switching for 100-E and 104-E contactors.



100-E-INT
Contactor Communication
Interface Module








104-E-INT
Contactor Communication
Interface Module

Features

- For non-reversing and reversing IEC contactors, 9...96 A
- Front-mounted, snap-fit with no tools required
- Multiple communication interfaces
- Low consumption coil offerings when connecting devices on the EtherNet/IP in-cabinet system
- Configured using Logix Designer/Studio 5000, add-on profile (AOP) supported

Product Selection

Product	Type	Description	Practical Use	Cat. No.
	Non-reversing motor starter	Simple coil control	<ul style="list-style-type: none"> • Use only when general-purpose relay settings are exceeded, system enable, or lead control upstream/downstream system interlocking 	100-E-INT
		Simple contactor coil control plus discrete input for interlocking	<ul style="list-style-type: none"> • 2-component or 3-component motor starter • Use to connect the discrete input to a trip contact/condition from a: <ul style="list-style-type: none"> - connected overload relay or - motor protection circuit breaker (MPCB) or - other applications as contactor only with interlock (the same use as 100-E-INT) 	100-E-INT-D
		Simple contactor coil control with discrete input for interlocking plus data port communications	100-E-INT-X	
	Reversing motor starter	Simple contactor coil control plus discrete input for interlocking	<ul style="list-style-type: none"> • 2-component or 3-component motor starter 	104-E-INT-D
		Simple contactor coil control with discrete input for interlocking plus data port communications	<ul style="list-style-type: none"> • 2-component or 3-component motor starter with data communication port 	104-E-INT-X

Specifications

Standards Compliance and Certifications

For a complete list of standards compliance and certifications, visit our Product Certifications website, rok.auto/certifications, and use '1834-CT' as your search term.

Technical Specifications

Attribute		Value
Network power (NP) ⁽¹⁾	Input voltage	11V DC minimum, 26.4V DC maximum
	Input current	30 mA maximum, continuous
Switched power (SP) ⁽¹⁾	Input voltage	26.4V DC maximum
	Input current	Variable based on 100-E contactor types
Auxiliary (aux) input ⁽¹⁾		Current and voltage provided to dry contact through the aux input, Type 1 as defined in IEC60947-1 standard
Push-in contact type		Dry, 14...28 AWG

(1) This power is provided from the catalog number 1486 flat media connection.

Environment Specifications

Attribute		Value
Ambient operating temperature	Open	-20...+60 °C (-4...+140 °F)
	Enclosed	-20...+40 °C (-4...+104 °F)
Storage temperature	Cold	-40 °C (-40 °F)
	Dry heat	85 °C (185 °F)

Input Current Specifications, Pick-up/Hold-in, for 100-E/104-E Coils

Attribute		Value	
Energy-efficient [EJ]	24...60V AC, 20...60V DC	100-E(09...38)EJ / 104-E(09...38)EJ	12...16VA / 1.7 W
Standard [KJ]	24...60V AC, 20...60V DC	100-E(40...65)KJ / 104-E(40...65)KJ	25VA / 2 W
		100-E(80...96)KJ / 104-E(80...96)KJ	40VA / 2 W
High energy-efficient [QJ]	24V DC	100-E(09...38)QJ / 104-E(09...38)QJ	6VA / 1.7 W

Required Accessories

Product	Description	Cat. No.	
Single pair Ethernet connection	Flat media cable that extends to the left and right	1486-CO-N-P1	
Flat media cable, 25 m (82 ft) maximum length	7-conductor flat cable available in bulk spool	10 m (32 ft)	1486-CBL-10M
		25 m (82 ft)	1486-CBL-25M
		100 m (328 ft)	1486-CBL-100M
Flat media cable terminator	For each flat media network	1486-CO-N-T1	

Mounting Interface with Bulletin 100-E Contactors

Size	EJ Low Consumption	QJ Low Consumption, Faster Drop-out	KJ Standard
Size 1	100-E09EJ	100-E09QJ	-
	100-E12EJ	100-E12QJ	
	100-E16EJ	100-E16QJ	
Size 2	100-E26EJ	100-E26QJ	-
	100-E30EJ	100-E30QJ	
	100-E38EJ	100-E38QJ	
Size 3	-	-	100-E40KJ
	-	-	100-E52KJ
	-	-	100-E65KJ
Size 3.5	-	-	100-E80KJ
	-	-	100-E96KJ

Starter Modes Depending on the Controlled-by Option

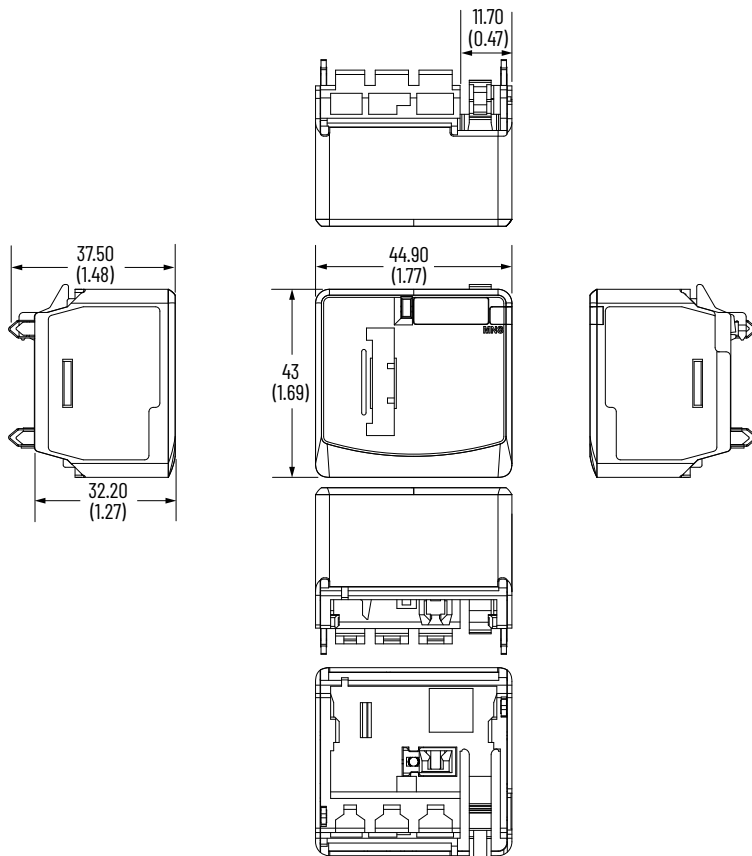
Controlled By	Supported Peer Commands	100-E-INT	100-E-INT-D	100-E-INT-X ⁽¹⁾	104-E-INT-D	104-E-INT-X ⁽¹⁾
Controller	None	✓	✓	✓	✓	✓
Controller/peer 2-wire	Hand	✓	✓	✓	✓	✓
	Off					
	Auto					
Controller/peer 3-wire	Hand	✓	✓	✓	✓	✓
	Off					
	Auto					
	Run	✓	–	–	–	–
	Run Forward	–	✓	✓	✓	✓
	Run Reverse	–	–	–	✓	✓
	Stop	✓	✓	✓	✓	✓
Peer 2-wire	Run	✓	–	–	–	–
	Run Forward	–	✓	✓	✓	✓
	Run Reverse	–	–	–	✓	✓
Peer 3-wire	Run	✓	–	–	–	–
	Run Forward	–	✓	✓	✓	✓
	Run Reverse	–	–	–	✓	✓
	Stop	✓	✓	✓	✓	✓

(1) 'Reset' is a supported peer command.

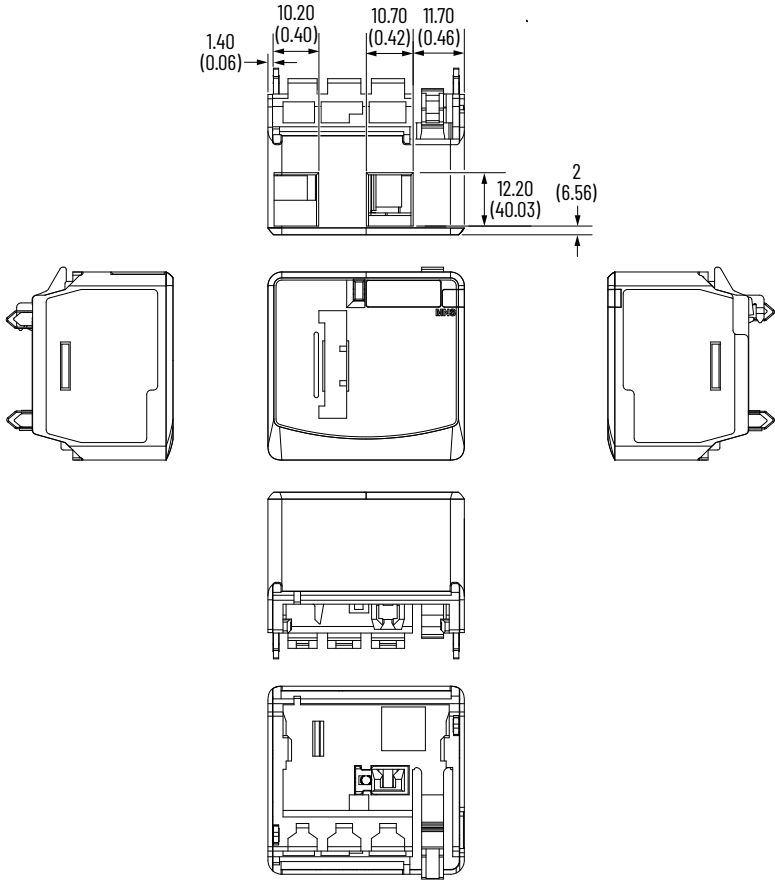
Approximate Dimensions

Dimensions are shown in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

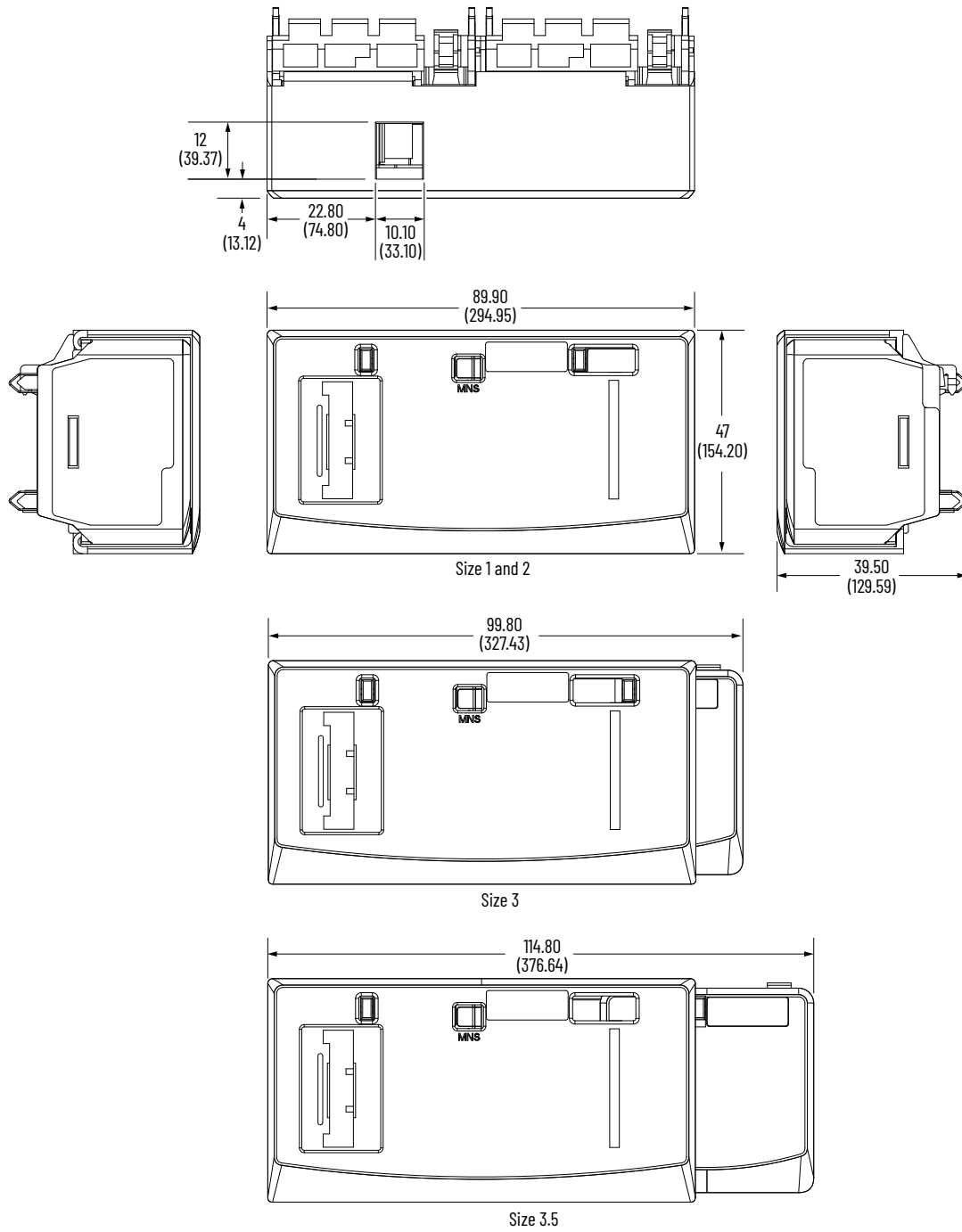
100-E-INT



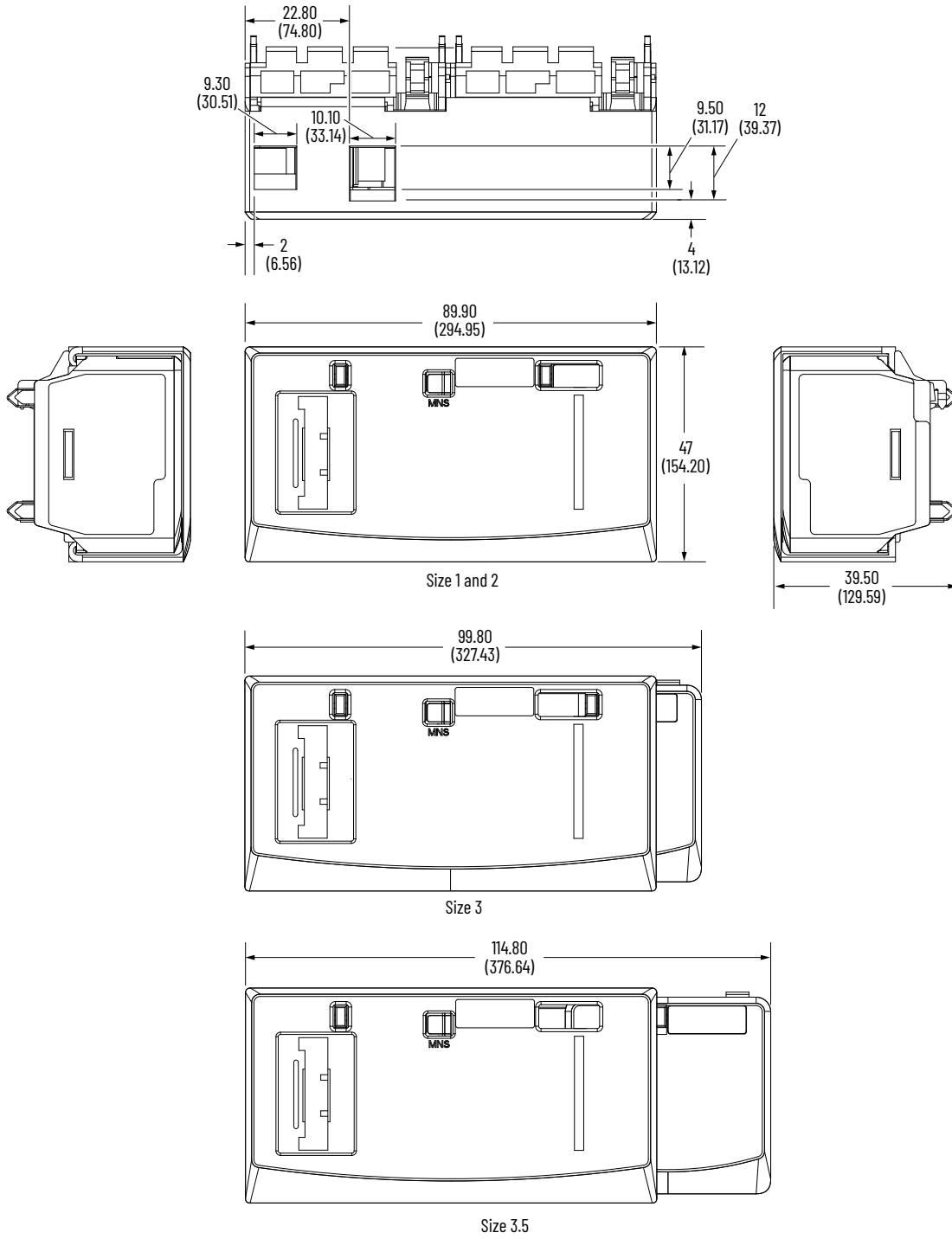
100-E-INT-D, 100-E-INT-X



104-E-INT-D



104-E-INT-X



800F-INT Push Button Communication Interface Modules for 800F Operators



A component to the EtherNet/IP™ in-cabinet system, communication interface modules (Cat. No. 800F-INT and Cat. No. 800F-INT-L) enhance an 800F in-cabinet input device for electrical control and switching. These communication interface modules provide a means to detect the operating state of a standard 22.5 mm 800F panel operator and report the status via the network.



Features

- Available as non-illuminated (Cat. No. 800F-INT) or illuminated (Cat. No. 800F-INT-L)
- Snap-fits to Cat. No. 800F-ALP and 800F-ALM mounting latches
- Allows for a Cat. No. 800F-X10 and/or a Cat. No. 800F-X01 contact block to be mounted at side positions for an optional hard-wired contact
 - two contact blocks maximum, cannot be stacked
- Configured using Logix Designer/Studio 5000
- Add-on profile (AOP) supported
 - Controlled by controller or peer
 - RGB illumination, eight color selection

Product Selection

Product	Description	Practical Use	Cat. No.
	Non-illuminated communication interface for non-illuminated 22 mm push buttons	Use to internally monitor the state of the 800F operators specified in Supported 800F Operators	800F-INT
	Illuminated communication interface for illuminated 22 mm push buttons, 800F pilot lights		800F-INT-L

Supported 800F Operators (1) (2)

800F Operator	Type	Cat. No.		800F Operator	Type	Cat. No.		
		For 800F-INT	For 800F-INT-L (3)			For 800F-INT	For 800F-INT-L (3)	
Push button	Momentary	Flush	800F_-F_	800F_-LF_	Selector switches, 3-position	Standard knob	800F_-SM3_	800F_-LSM3_
		Extended	800F_-E_	800F_-LE_			800F_-SL3_	800F_-LSL3_
		Guarded	800F_-G_	800F_-LG_			800F_-SR3_	800F_-LSR3_
		Mushroom	800F_-MM_	800F_-LMM_			800F_-HM3_	800F_-LHM3_
	Trigger action	Push, twist-to-release	800F_-MT_	800F_-LMT_		Knob lever	800F_-HL3_	800F_-LHL3_
		Push-pull	800F_-MP_	800F_-LMP_			800F_-HR3_	800F_-LHR3_
Key release		800F_-MK4_	—	Key operator	800F_-KM3_		—	
Selector switches, 2-position	Standard knob	800F_-SM2_	800F_-LSM2_		800F_-KL3_	—		
		800F_-SR2_	800F_-LSR2_	800F_-KR3_	—			
	Knob lever	800F_-HM2_	800F_-LHM2_	Momentary multi-operator	2-function	800F_-U2	800F_-LU2	
		800F_-HR2_	800F_-LHR2_					
	Key operator	800F_-KM2_	—					
		800F_-KR2_	—					

(1) For product selection and technical data for the supported 800F operators listed, see 22 mm Push Button Specifications Technical Data, publication [800-TD008](#).

(2) For global governing standards, see the Emergency Stop Push Buttons white paper, publication [800-WP008](#).

(3) Use of a colorless, clear lens (option 7) of 800F illuminated operators is recommended.

Illuminated 800F Push Button Modes Controlled by Controller or Peer Device

Mode	Options
Light color	Red
	Green
	White
	Blue
	Yellow
	Turquoise
	Magenta
	Amber
Light state	Illumination on
	Blink
	Dim
	Blink and dim

Specifications

Standards Compliance and Certifications

For a complete list of standards compliance and certifications, visit our Product Certifications website, rok.auto/certifications, and use '1834-CT' as your search term.

Technical Specifications

Attribute	Value	
Network power (NP) ⁽¹⁾	Input voltage	11V DC minimum, 26.4V DC maximum
	Input current	30 mA maximum, continuous

(1) This power is provided from the catalog number 1486 flat media connection.

Environment Specifications

Attribute	Value	
Ambient operating temperature	Open	-20...+60 °C (-4...+140 °F)
	Enclosed	-20...+40 °C (-4...+104 °F)
Storage temperature	Cold	-40 °C (-40 °F)
	Dry heat	85 °C (185 °F)

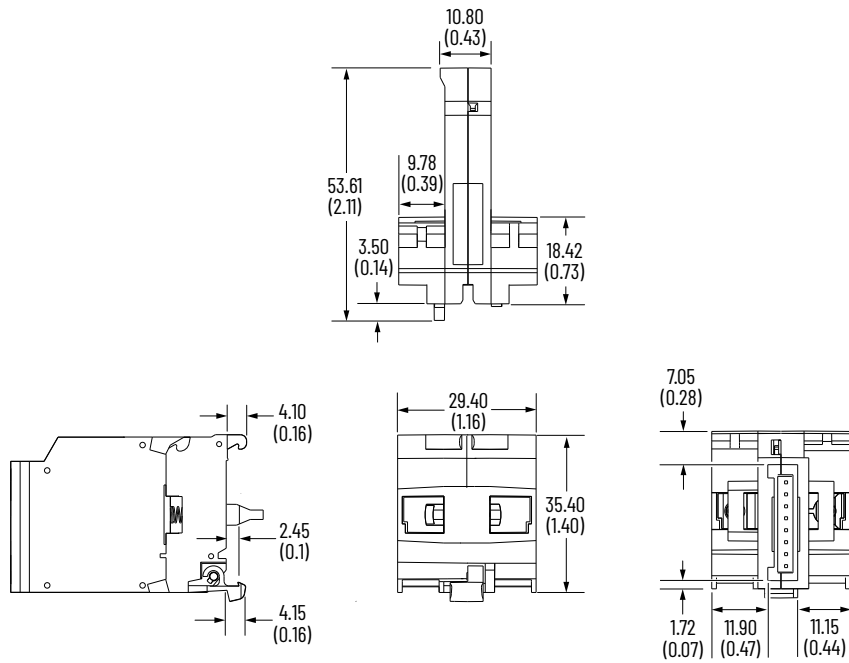
Required Accessories

Product	Description	Cat. No.	
Single pair Ethernet connection	Flat media cable that extends to the left and right	1486-CON-P1	
Flat media cable, 25 m (82 ft) maximum length	7-conductor flat cable available in bulk spool	10 m (32 ft)	1486-CBL-10M
		25 m (82 ft)	1486-CBL-25M
		100 m (328 ft)	1486-CBL-100M
Flat media cable terminator	For each flat media network	1486-CON-T1	

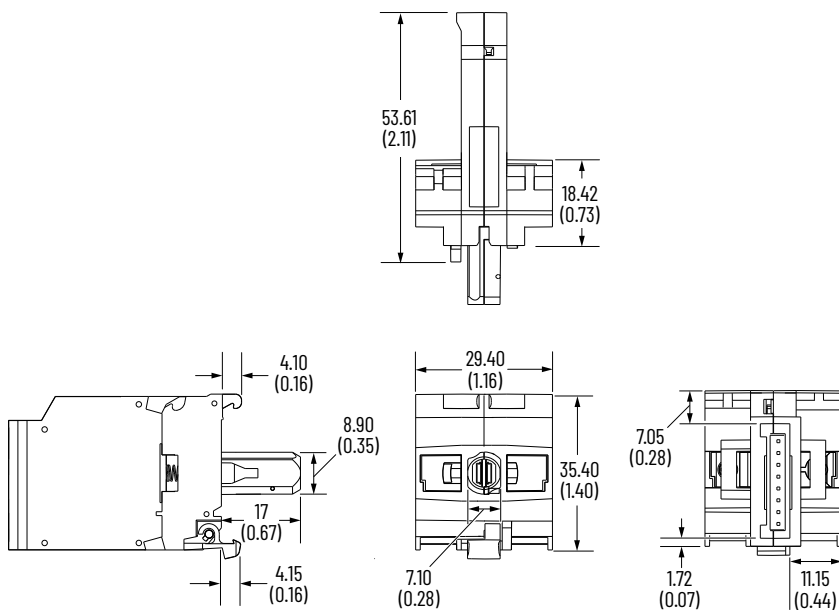
Approximate Dimensions

Dimensions are shown in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

800F-INT

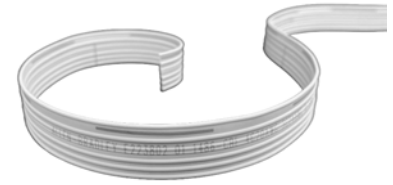


800F-INT-L



Notes:

The flat media cable (Cat. No. 1486-CBL) is a multi-conductor cable that passes power and signal to and from communication interface devices in a multi-drop bus topology, in which all nodes are connected to a single cable. This single cable design provides communications, switched power, and network power.



Features

- Cable design delivers power and data seamlessly
- Eliminates extra wire trays that are no longer needed
- Seven conductor flat media cable
 - SPE+, SPE- (Single Pair Ethernet): communications
 - NP+, NP- (Network Power): interface power
 - SP+, SP- (Switched Power): coil control
 - Select Line: device position on media

Product Selection

Description	Practical Use	Length	Cat. No.
7-conductor flat media cable ⁽¹⁾	Passes power and signal to and between communication interface devices in a multi-drop bus topology, in which all nodes are connected to a single cable	10 m (32 ft)	1486-CBL-10M
		25 m (82 ft)	1486-CBL-25M
		100 m (328 ft)	1486-CBL-100M

(1) IP20 rating. Installation is required in UL 508 A Industrial Control Panels, UL 845 Motor Control Centers, and similar internal ordinary (non-hazardous) locations on an international basis in-cabinet only.

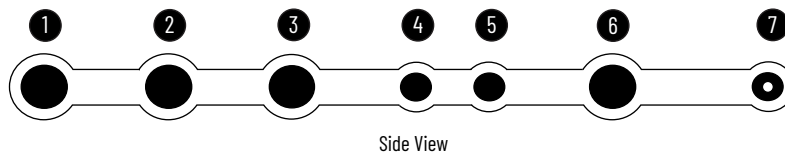
Specifications

Standards Compliance and Certifications

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Certification	Description
REACH	Rockwell Automation Material Specification 970-20-01, General Specification for the Environment
ROHS	Compliant for the European Union, China, Kingdom of Saudi Arabia (KSA), United Arab Emirates (UAE), and United Kingdom
UL	UL Recognized AVL2, Appliance wiring material (AWM), E223802, Style 4647, UL758
ODVA	Common Industrial Protocol (CIP™) Networks Library, Vol. 2 EtherNet/IP Adaptation of CIP, section 8-10 Industrial EtherNet/IP in-cabinet bus media and physical layer, IEEE Std 802.3 cg
cURus	UL758 (AVLV2) UL 4647, 22422

1486-CBL Flat Media Cable Function



Note No.	Description	
1	Switched power (SP-)	Coil control
2	Switched power (SP+)	Coil control
3	Network power (NP+)	Interface power
4	Single pair Ethernet (SPE+)	Communications
5	Single pair Ethernet (SPE-)	Communications
6	Network power (NP-)	Interface power
7	Select line	Device position on media

Limitations, Minimum Specifications and Requirements

Requirements		
Limitations	Maximum cable length:	Per 1834-AENTR gateway interface: 25 m (82 ft)
		IP20 rated; for in-cabinet use only
	Cable bend radius:	Static installation: ≥ 5 mm (0.22 in) Cable loops that move (such as at a door hinge): ≥ 30 mm (1.18 in), 20x the cable thickness
	Cable routing within control panel:	Flat media cable cannot be bent along its length except for momentary slight bending during connector installation IMPORTANT: Avoid routing near equipment that generates strong electric or strong magnetic fields. When routing, use proper cable supports such as Panduit® FCM1-A-C14

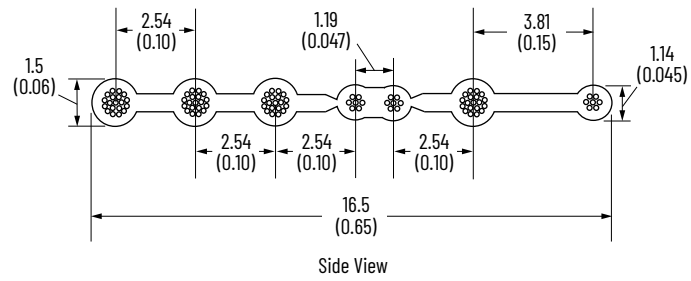
Minimum Specifications and Requirements ⁽¹⁾

Electrical	
Conductors	<ul style="list-style-type: none"> SPE+, SPE-, SEL: 24 AWG, 7/32 stranded tin-coated copper 0.23 mm² strand \varnothing 0.203 mm / bundle \varnothing 0.61 mm Lay length of outer layer is from 12 minimum...16 maximum times, outer diameter (OD) NP+, NP-, SP+, SP-: 20 AWG, 19/32 stranded tin-coated copper 0.61 mm² strand \varnothing 0.203 mm / bundle \varnothing 0.95 mm Lay length of all layers is from 12 minimum...16 maximum times, OD
Impedance Ω	Reference impedance of 100 Ω for SPE pair
Insertion Loss IL (dB)	<ul style="list-style-type: none"> Measured per section 8-10.4.4 for SPE pair at 25 m (82 ft) length $0.25 * (2.73 \sqrt{f}) + 0.026 * f + 0.375 / \sqrt{f}$ $0.30 \leq f \leq 40$ where f is the frequency in MHz
Return Loss IL (dB)	<ul style="list-style-type: none"> Measured per section 8-10.4.4 for SPE pair at 25 m (82 ft) length $24 + 5 * \log_{10}(f/10)$, 24 maximum $0.30 \leq f \leq 40$ where f is the frequency in MHz
Mode Conversion MC (dB)	<ul style="list-style-type: none"> Measured per section 8-10.4.4 for SPE pair at 25 m (82 ft) length TCL and TCTL: $46 - 10 * \log_{10}(f/10)$, 40 max $0.30 \leq f \leq 100$ where f is the frequency in MHz
Current	<ul style="list-style-type: none"> NP+, NP-, SP+, SP-: 4 A minimum at 75 °C (167 °F) ambient SPE+, SPE-: 12 mA minimum at 75 °C (167 °F) ambient
DCR	<ul style="list-style-type: none"> Measured for each conductor at 25 m (82 ft) length at 20 °C (68 °F) NP and SP: 0.935 Ω maximum SPE and SEL: 2.355 Ω maximum (Reference: UL 1581)
DCR Unbalance	<ul style="list-style-type: none"> Measured per ASTM D456 NP and SP: 3%
Dielectric strength	2000V AC (Reference: UL 758, Table 29.1, 600V AC)
Mechanical	
Construction	<ul style="list-style-type: none"> Parallel, multi-conductor cable with extruded integral insulation and no jacket or coverings For unrestricted internal use 600V AC Tested for crush resistance per UL 758, Table 28.1 Not required to be wet-rated or have oil, gas, or sunlight resistance
Durometer	97 Shore A maximum or equivalent
Pulling tension	111 N, no damage precluding use and all electrical parameters met
Breaking strength	400 N
Material color	<ul style="list-style-type: none"> Light color contrast with markings Light gray RAL7035
Printed markings	<ul style="list-style-type: none"> Color contrasts material color Agency approvals every 1 m (3.28 ft) Index line is perpendicular to the cable direction, which is indexed every 50 mm (1.97 in) Sequential counter number every 1 m (3.28 ft) SEL line
Dimensional	
Profile	Dimensions and signal assignment per section 8-10.4.3

(1) Cable C1 per Open DeviceNet Vendors Association® (ODVA) Volume 2 EtherNet/IP adaptation of Common Industrial Protocol (CIP), section 8-10 industrial EtherNet/IP in-cabinet bus media and physical layer.

Approximate Dimensions

Dimensions are shown in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.



Notes:

1486-CON Connectors







A component of the EtherNet/IP™ in-cabinet system, connectors (Cat. No. 1486-CON-x) are used to attach onto the flat media cable (Cat. No. 1486-CBL), interconnect the gateway (Cat. No. 1834-AENTR), and provide power sourcing and connection to end node devices.

Features

- Multiple keying features help prevent the Cat. No. 1486-CBL flat media cable and all Cat. No. 1486-CON connectors from being improperly or incorrectly positioned
- Innovative covers
 - Detent open and easy removal/reattachment to aid in Cat. No. 1486-CBL flat media cable insertion and connector positioning
 - Laser markings provide clarity of connector function and Cat. No. 1486-CBL flat media cable positioning and direction
 - For P2L, P2R, S1, and T1 connectors: transparent covers allow for inspection of terminated cable ends
- Protective caps permit use of various clamping pliers at a consistent jaw opening across connectors



Product Information

Product	Description	For Use with	Connector Supplied with Cat. No.	Cat. No.
	Connector cover	Unused, straight-through 1486-CON-P1 connectors	N/A	1486-CON-D1
	Connector, straight through	Cable connection for all 100-E, 104-E, and 800F communication interfaces to end nodes	100-E-INT, 100-E-INT-D, 100-E-INT-X, 104-E-INT, 104-E-INT-X, 800F-INT, 800F-INT-L	1486-CON-P1
	Connector, covers left end of 1486-CBL flat media cable	Gateway or supplemental power tap	1834-AENTR, 1834-SUP-PWR	1486-CON-P2L
	Connector, covers right end of 1486-CBL flat media cable		1834-SUP-PWR	1486-CON-P2R
	Connector, joins two or repairs 1486-CBL flat media cables	Add additional cable or end node	N/A	1486-CON-S1
	Connector, media termination	End of flat media cable for termination	1834-AENTR	1486-CON-T1

Specifications

Standards Compliance and Certifications

For a complete list of standards compliance and certifications, visit our Product Certifications website, rok.auto/certifications, and use '1834-CT' as your search term.

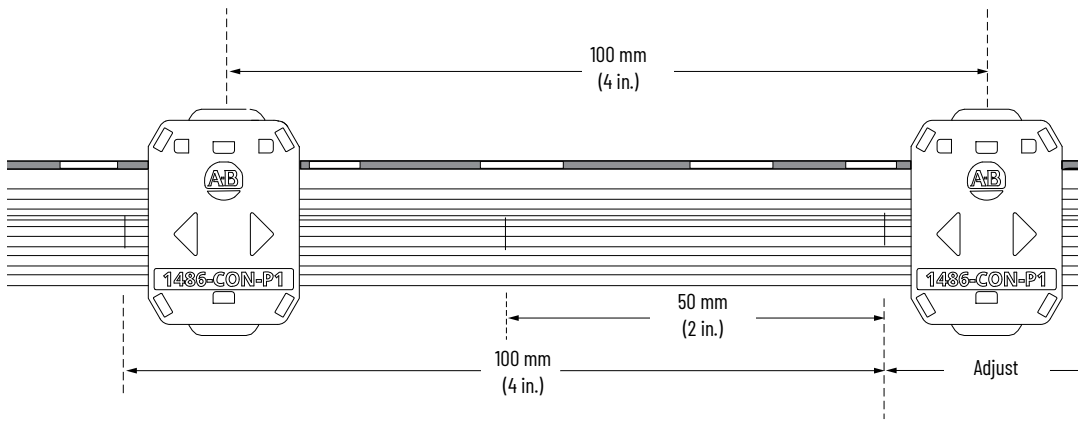
Technical Specifications

Attribute	Value
Working voltage	30V DC maximum
Operating current	1486-CON-P1: 2 A maximum 1486-CON-P2L, 1486-CON-P2R, and 1486-CON-S1: 4 A maximum
Connected devices, maximum	40

Environment Specifications

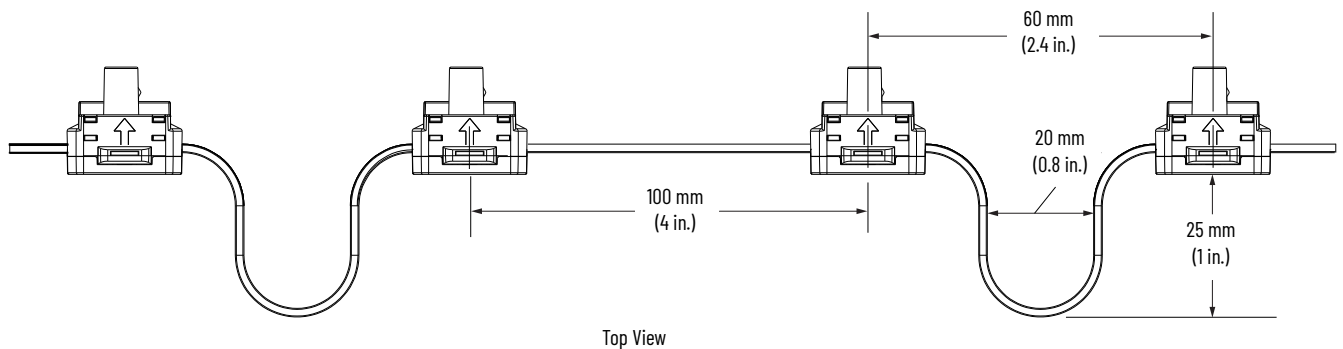
Attribute	Value
Ambient operating temperature	Open: -20...+60 °C (-4...+140 °F)
	Enclosed: -20...+40 °C (-4...+104 °F)
Storage temperature	Cold: -40 °C (-40 °F)
	Dry heat: 85 °C (185 °F)

Spacing Requirements



- Provide 100 mm (4 in.) of initial spacing to allow for cable slack to ease connector insertion/reinsertion.
- Adjust the spacing based on the adjacent device dimensions to achieve desired cable slack. The minimum spacing is 50 mm (2 in.).

Example: Cable Slack Using 100 mm (4 in.) Spacing



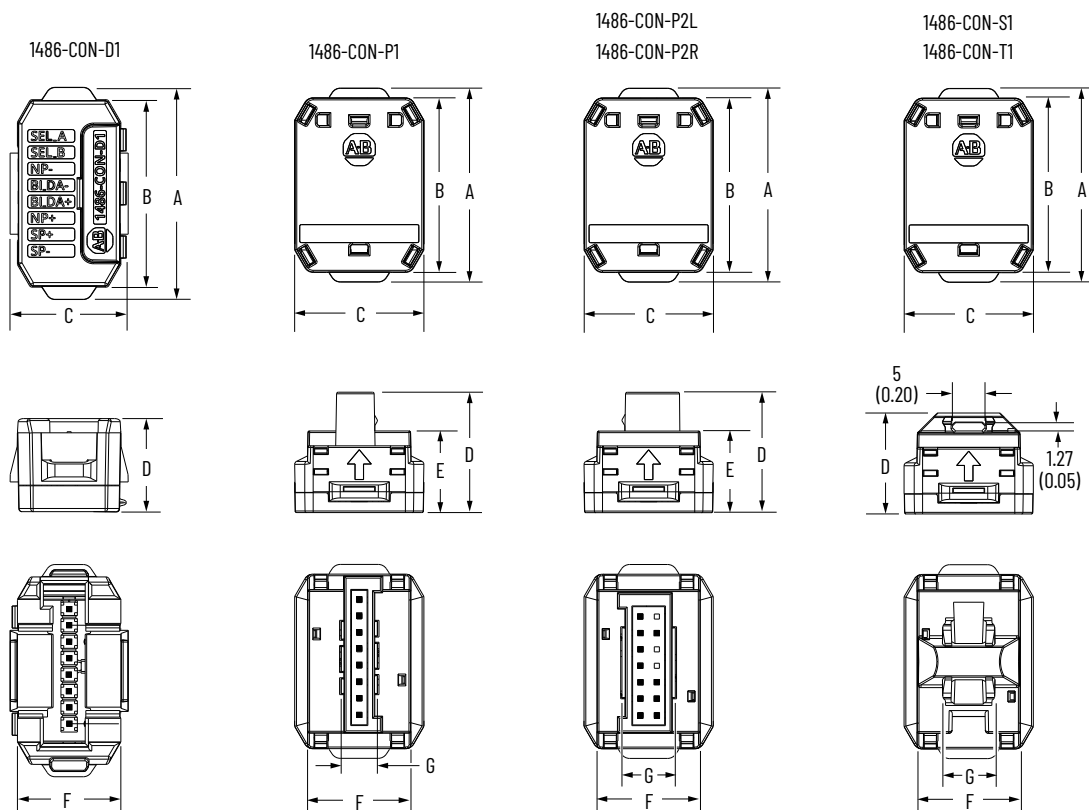
Required Accessories

Product	Description	Cat. No.
Flat media cable ⁽¹⁾ , 25 m (82 ft) maximum length	7-conductor flat cable available in bulk spool	10 m (32 ft)
		25 m (82 ft)
		100 m (328 ft)

(1) IP20 rating. Installation is required in UL 508A Industrial Control Panels, UL 845 Motor Control Centers, and similar internal ordinary (non-hazardous) locations on an international basis, in-cabinet only.

Approximate Dimensions

Dimensions are shown in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.



Cat. No.	Dimension						
	A	B	C	D	E	F	G
1486-CON-D1	32.80 (1.29)	29 (1.14)	18.30 (0.72)	14.50 (0.57)	—	—	—
1486-CON-P1	30 (1.18)	27 (1.06)	20 (0.79)	18.60 (0.73)	12.60 (0.50)	16 (0.63)	5.60 (0.22)
1486-CON-P2L	30 (1.18)	27 (1.06)	20 (0.79)	18.60 (0.73)	12.60 (0.50)	16 (0.63)	8.25 (0.32)
1486-CON-P2R							8.25 (0.32)
1486-CON-S1	30 (1.18)	27 (1.06)	20 (0.79)	14.50 (0.57)	—	16 (0.63)	8.25 (0.32)
1486-CON-T1							8.25 (0.32)

Notes:

The gateway (Cat. No. 1834-AENTR) is the primary network power source of the EtherNet/IP™ in-cabinet system that connects the devices on the EtherNet in-cabinet system bus to a standard Ethernet network to allow communication between a Logix controller and the devices. The gateway continuously monitors the network to identify if there have been changes in the number or sequence of devices that are connected to the network.



Features

- Primary EtherNet/IP in-cabinet network power source as well as a 4 amp switched power source
- Supports both standard EtherNet/IP, which is upstream communication interface, and EtherNet/IP in-cabinet (which is downstream communication interface)
- Two RJ45 ports
- Dynamic Host Configuration Protocol (DHCP) or rotary IP set that operate as a two port switch which allows it to be put onto a star, linear, or Device Level Ring (DLR) Ethernet network topology
 - uses selectable device addressing method to set the IP address for a new device
- Auto-IP commissioning of connected devices
- Configured using Logix Designer/Studio 5000
- Maximum of 39 downstream node connections
- For DIN rail or surface mounting

Product Selection

Description	Practical Use	Cat. No.
EtherNet/IP in-cabinet system gateway	Connects the devices on the EtherNet/IP in-cabinet system to a standard EtherNet/IP network to allow communication between a Logix controller and the devices	1834-AENTR

Specifications

Standards Compliance and Certifications

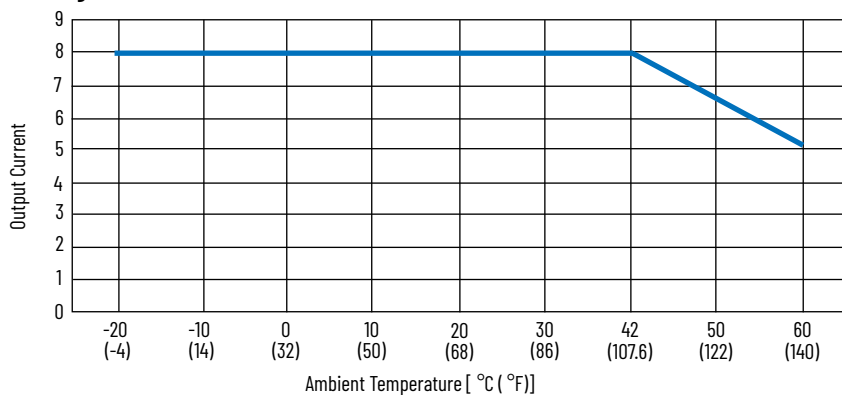
For a complete list of standards compliance and certifications, visit our Product Certifications website, rok.auto/certifications, and use '1834-CT' as your search term.

Technical Specifications

Attribute		Value
Input power supply	Requirements/conformance	SELV/PELV, maximum 960 watts
	Terminal designations	24V DC, (+), (-), \perp , accepts wire diameter of 12 AWG
	Voltage range	24V DC +/- 10%
	Current	0.1 A minimum, 8.2 A maximum
	Maximum DC power cable length	Distance between power supply and gateway: 3 m (9.80 ft)
Network power (NP) ⁽¹⁾	Output voltage	21.1V DC minimum, 26.4V DC maximum
	Output current	4 A maximum continuous, 8 A maximum for no longer than 5 s
	Output power	100VA maximum, NEC Class 2
Switched power (SP) ⁽¹⁾	Output voltage	21.1V DC minimum, 26.4V DC maximum
	Output current	4 A maximum continuous, 8 A maximum for no longer than 5 s
	Output power	100VA maximum, NEC Class 2

(1) The current rating is dependent on the primary power supply size. NP and SP current is derated at above 40 °C (104 °F). NP and SP outputs shall not be interconnected.

Derating



Environment Specifications

Attribute		Value
Ambient operating temperature	Open	-20...+60 °C (-4...+140 °F)
	Enclosed	-20...+40 °C (-4...+104 °F)
Storage temperature	Cold	-40 °C (-40 °F)
	Dry heat	85 °C (185 °F)

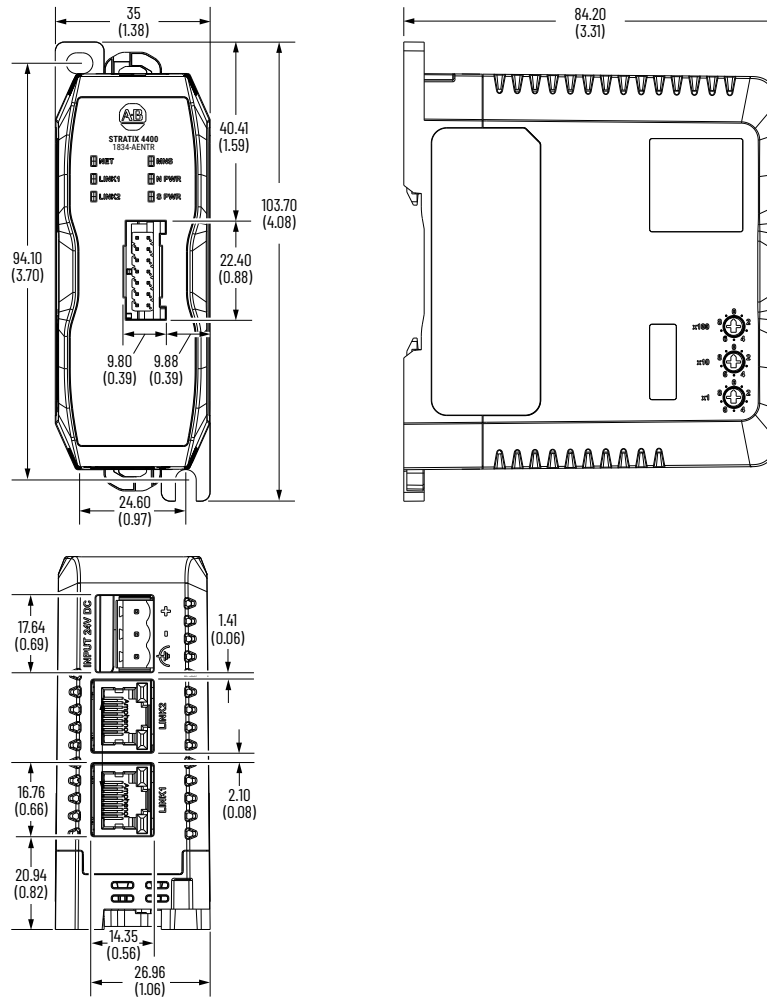
Required Accessories

Product	Description	Cat. No.
Single pair Ethernet connection	Flat media cable extends to right (front facing for typical installation)	1486-CON-P2L
	Flat media cable extends to left (front facing)	1486-CON-P2R
Flat media cable ⁽¹⁾ , 25 m (82 ft) maximum length	7-conductor flat cable, available in bulk spool	10 m (32 ft) 1486-CBL-10M
		25 m (82 ft) 1486-CBL-25M
		100 m (328 ft) 1486-CBL-100M
Flat media cable terminator	For each flat media network	1486-CON-T1

(1) IP20 rating. Installation is required in UL 508A Industrial Control Panels, UL 845 Motor Control Centers, and similar internal ordinary (non-hazardous) locations on an international basis, in-cabinet only.

Approximate Dimensions

Dimensions are shown in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.



Notes:

Additional Resources

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

Resource	Description
EtherNet/IP In-cabinet System: Gateway Product Information, publication 1834-PC001	Provides product information for the EtherNet/IP in-cabinet system gateway, Cat. No. 1834-AENTR.
EtherNet/IP In-cabinet System: Supplemental Power Tap Product Information, publication 1834-PC002	Provides product information for the EtherNet/IP in-cabinet system supplemental power tap, Cat. No. 1834-SUP-PWR.
EtherNet/IP In-cabinet System: Contactor Communication Interface Modules for 100-E and 104-E Contactors Product Information, publication 1834-PC003	Provides product information for the EtherNet/IP in-cabinet system contactor communication interface modules for 100-E and 104-E contactors, Cat. No. 100-E-INT, 100-E-INT-D, 100-E-INT-X, 104-E-INT-D, and 104-E-INT-X.
EtherNet/IP In-cabinet System: Push Button Communication Interface Modules for 800F Operators Product Information, publication 1834-PC004	Provides product information for the EtherNet/IP in-cabinet system push button communication interface modules for Bulletin 800F operators, Cat. No. 800F-INT and 800F-INT-L.
EtherNet/IP In-cabinet System User Manual, publication 1834-UM001	Provides guidance to plan, configure, diagnose, and troubleshoot the EtherNet/IP in-cabinet system.
22 mm Push Button Specifications Technical Data, publication 800-TD008	Provides product selection and technical data for Bulletin 800F operators and related accessories.
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.
Common Industrial Protocol™ (CIP) Security with Rockwell Automation Products, publication SECURE-AT001	Explanation of how to implement the CIP security standard in your industrial automation control system (IACS).
FactoryTalk Security Application Technique, publication SECURE-AT002	Describes how to use FactoryTalk® Security to implement authentication and authorization in your industrial automation system and enforce product-specific security for Studio 5000 Logix Designer®, FactoryTalk View, and FactoryTalk AssetCentre.
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.
UL Standards Listing for Industrial Control Products, publication CMPNTS-SR002	Assists original equipment manufacturers (OEMs) with the construction of panels, to help achieve that they conform to the requirements of Underwriters Laboratories.
Product Selection and Configuration tools, 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, Knowledgebase, 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)	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	rok.auto/pcdc

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

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