PHŒNIX CONTACT

Controller - ILC 2050 BI - 2403160

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The modular Inline controller for automation applications in buildings, infrastructure, and energy for connection with standard automation technology with the Internet of Things (IoT). The controller makes it possible to implement complex systems efficiently.
Licenses for use in production systems are available separately.

Product Description

The ILC 2050 BI is the central controller for automation of buildings, infrastructure, and energy. The industrial design guarantees a high level of reliability and therefore makes the ILC 2050 BI suitable for business-critical applications. It is equipped with four LAN, two USB and two RS-485 interfaces. The controller can be extended with numerous Inline modules for digital and analog I/Os and for all standard bus systems. The corresponding drivers ensure uniform interfaces, thus greatly simplifying system integration.

Your advantages

☑ Time-optimized engineering using the Niagara 4 framework

☑ Support for all the main communication protocols used in building infrastructure automation

☑ Planning, engineering, and visualization in the Java-based Niagara 4 framework

☑ Easy extension of the Niagara 4 framework with self-programmed functions

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 260587
GTIN	4055626260587

Technical data

Dimensions

Width	80 mm
Height	119.8 mm
Depth	71.5 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C

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Technical data

Ambient conditions

Permissible humidity (operation)	0 % ... 75 % (according to DIN EN 61131-2, non-condensing, no ice formation)
Air pressure (operation)	70 hPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Resistance to gases that may endanger the functions, in acc. with DIN 40046-36, DIN 40046-37	Sulfur dioxide (SO_2) 10 ±0.3 ppm (test duration: 10 days), hydrogen sulfide (H_2S) 1 ±0.3 ppm (test duration: 4 days), both at 25°C and with 75% humidity

Control system

Engineering tool	Niagara 4
	WorkPlace
Programming languages supported	Niagara Framework®

Mechanical design

Weight	230 g
Diagnostics display	No
Controller redundancy	No
Safety function	No

Data interfaces

Interface	Ethernet
Number	4
Connection method	RJ45 jack, shielded
Transmission speed	10/100 Mbps
Interface	RS-485
Number	2
Connection method	Spring-cage connection
Transmission speed	max. 200 kbps
Interface	USB 1.0/USB 2.0
Number	1
Connection method	USB type A, socket
Interface	USB OTG
Number	1
Connection method	Mini-USB
Interface	microSD
Number	1 (Top)
Connection method	microSD slot

Power supply

Typical current consumption	≤ 170 mA (at nominal voltage without local bus device)
Max. current consumption	≤ 1.5 A
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC

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Technical data

Fieldbus function

Amount of process data	max. 4096 Bit (INTERBUS)
Number of supported devices	max. 63
Number of local bus devices that can be connected	max. 63 (observe current consumption)
Number of devices with parameter channel	max. 16 (PCP devices are tolerated – however, PCP is not actively supported)
Program memory	1 GByte (SRAM)

IEC 61131 runtime system

Engineering tool	Niagara 4
	WorkPlace
Program memory	1 GByte (SRAM)
Mass storage	1.8 GByte (eMMC)
Retentive mass storage	2 GByte (eMMC)
Realtime clock	Yes

General data

Processor	Arm® Cortex®-A8 1000 MHz
Operating system	Linux
RAM	1024 Mbyte DDR3 SDRAM

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Classifications

eCl@ss

eCl@ss 10.0.1	27242207
eCl@ss 4.0	27250203
eCl@ss 4.1	27240601
eCl@ss 5.0	27242700
eCl@ss 5.1	27242700
eCl@ss 6.0	27242200
eCl@ss 7.0	27242207
eCl@ss 8.0	27242207
eCl@ss 9.0	27242207

ETIM

ETIM 2.0	EC000236
ETIM 3.0	EC000236
ETIM 4.0	EC000236
ETIM 5.0	EC000236
ETIM 6.0	EC000236

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Classifications

ETIM

ETIM 7.0	EC000236

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172018
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404
UNSPSC 18.0	39122114
UNSPSC 19.0	39122114
UNSPSC 20.0	39122114
UNSPSC 21.0	39122114

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705

cULus Listed			

Accessories

Accessories

Building management system

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Accessories

Building management system - EM-VIEW-NDA-ENGINEERING - 1139368

Emalytics View demo license with unlimited functionality and topics.
This license is not approved for use in production systems. Licenses for use in production systems are available separately.
Important note: When purchasing this license, the host ID, user name, and e-mail address must be listed.

Building management system - NC4-DR-SMSALM - 1140562

SMS driver license for Emalytics Controller

Building management system - PARTNER-ACCESS - 1139362

License for limited partner access on the Niagara license management portal

Building management system - NC4-DEMO - 1061902

Emalytics Controller demo license with unlimited functionality and 12-month runtime, which will be renewed annually.
This license is not approved for use in production systems. Licenses for use in production systems are available separately.

Building management system - NC4-100 - 1045861

Emalytics Controller license to integrate 100 data points (separate maintenance license required)

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Accessories

Building management system - NC4-250 - 2404194

Emalytics Controller license to integrate 250 data points (separate maintenance license required)

Building management system - NC4-500 - 2404195

Emalytics Controller license to integrate 500 data points (separate maintenance license required)

Building management system - NC4-1250 - 2404196

Emalytics Controller license to integrate 1250 data points (separate maintenance license required)

Building management system - NC4-5000 - 2404197

Emalytics Controller license to integrate 5000 data points (separate maintenance license required)

Building management system - NC4-10000 - 2404198

Emalytics Controller license to integrate 10000 data points (separate maintenance license required)

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Accessories

Building management system - NC4-100-SMA-1YR - 1101277

Maintenance license (1 year) for the Emalytics Controller license NC4-100

Building management system - NC4-100-SMA-3YR - 1101283

Maintenance license (3 years) for the Emalytics Controller license NC4-100

Building management system - NC4-100-SMA-5YR - 1101291

Maintenance license (5 years) for the Emalytics Controller license NC4-100

Building management system - NC4-250-SMA-1YR - 2404204

Maintenance license (1 year) for the Emalytics Controller license NC4-250

Building management system - NC4-250-SMA-3YR - 2404205

Maintenance license (3 years) for the Emalytics Controller license NC4-250

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Controller - ILC 2050 BI - 2403160

Accessories

Building management system - NC4-250-SMA-5YR - 2404206

Maintenance license (5 years) for the Emalytics Controller license NC4-250

Building management system - NC4-500-SMA-1YR - 2404208

Maintenance license (1 year) for the Emalytics Controller license NC4-500

Building management system - NC4-500-SMA-3YR - 2404209

Maintenance license (3 years) for the Emalytics Controller license NC4-500

Building management system - NC4-500-SMA-5YR - 2404210

Maintenance license (5 years) for the Emalytics Controller license NC4-500

Building management system - NC4-1250-SMA-1YR - 2404212

Maintenance license (1 year) for the Emalytics Controller license NC4-1250

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Accessories

Building management system - NC4-1250-SMA-3YR - 2404213

Maintenance license (3 years) for the Emalytics Controller license NC4-1250

Building management system - NC4-1250-SMA-5YR - 2404214

Maintenance license (5 years) for the Emalytics Controller license NC4-1250

Building management system - NC4-5000-SMA-1YR - 2404216

Maintenance license (1 year) for the Emalytics Controller license NC4-5000

Building management system - NC4-5000-SMA-3YR - 2404217

Maintenance license (3 years) for the Emalytics Controller license NC4-5000

Building management system - NC4-5000-SMA-5YR - 2404218

Maintenance license (5 years) for the Emalytics Controller license NC4-5000

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Accessories

Building management system - NC4-10000-SMA-1YR - 2404221

Maintenance license (1 year) for the Emalytics Controller license NC4-10000

Building management system - NC4-10000-SMA-3YR - 2404222

Maintenance license (3 years) for the Emalytics Controller license NC4-10000

Building management system - NC4-10000-SMA-5YR - 2404223

Maintenance license (5 years) for the Emalytics Controller license NC4-10000

Building management system - SUP-0 - 2404065

Emalytics Supervisor license without connectivity to an Emalytics Controller (separate maintenance license required)

Building management system - SUP-1 - 2404136

Emalytics Supervisor license with connectivity to an Emalytics Controller (separate maintenance license required)

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Accessories

Building management system - SUP-10 - 2404156

Emalytics Supervisor license with connectivity to up to 10 Emalytics Controllers (separate maintenance license required)

Building management system - SUP-100 - 2404157

Emalytics Supervisor license with connectivity to up to 100 Emalytics Controllers (separate maintenance license required)

Building management system - SUP-UNL - 2404158

Emalytics Supervisor license with connectivity to any number of Emalytics Controllers (separate maintenance license required)

Building management system - SUP-0-SMA-1YR - 2404175

Maintenance license (1 year) for the SUP-0 Emalytics Controller license

Building management system - SUP-0-SMA-3YR - 2404176

Maintenance license (3 years) for SUP-0 Emalytics Supervisor license

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Accessories

Building management system - SUP-0-SMA-5YR - 2404177

Maintenance license (5 years) for SUP-0 Emalytics Supervisor license

Building management system - SUP-1-SMA-1YR - 2404179

Maintenance license (1 year) for the SUP-1 Emalytics Controller license

Building management system - SUP-1-SMA-3YR - 2404180

Maintenance license (3 years) for the SUP-1 Emalytics Supervisor license

Building management system - SUP-1-SMA-5YR - 2404181

Maintenance license (5 years) for the SUP-1 Emalytics Supervisor license

Building management system - SUP-10-SMA-1YR - 2404183

Maintenance license (1 year) for the SUP-10 Emalytics Controller license

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Accessories

Building management system - SUP-10-SMA-3YR - 2404184

Maintenance license (3 years) for the SUP-10 Emalytics Supervisor license

Building management system - SUP-10-SMA-5YR - 2404185

Maintenance license (5 years) for the SUP-10 Emalytics Supervisor license

Building management system - SUP-100-SMA-1YR - 2404187

Maintenance license (1 year) for the SUP-100 Emalytics Controller license

Building management system - SUP-100-SMA-3YR - 2404188

Maintenance license (3 years) for the SUP-100 Emalytics Supervisor license

Building management system - SUP-100-SMA-5YR - 2404189

Maintenance license (5 years) for the SUP-100 Emalytics Supervisor license

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Accessories

Building management system - SUP-UNL-SMA-1YR - 2404191

Maintenance license (1 year) for the SUP-UNL Emalytics Controller license

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Building management system - SUP-UNL-SMA-3YR - 2404192

Maintenance license (3 years) for the SUP-UNL Emalytics Supervisor license

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Building management system - SUP-UNL-SMA-5YR - 2404193

Maintenance license (5 years) for the SUP-UNL Emalytics Supervisor license

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Building management system - SUP-POINTS-500 - 2404159

Emalytics Supervisor license for an additional 500 data points

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Building management system - SUP-POINTS-1250 - 2404160

Emalytics Supervisor license for an additional 1250 data points

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Controller - ILC 2050 BI - 2403160

Accessories

Building management system - SUP-POINTS-2500 - 2404161

Emalytics Supervisor license for an additional 2500 data points

Building management system - SUP-POINTS-5000 - 2404162

Emalytics Supervisor license for an additional 5000 data points

Building management system - SUP-POINTS-10000 - 2404163

Emalytics Supervisor license for an additional 10000 data points

Building management system - SUP-UP-1 - 2404164

Upgrade of the Emalytics Supervisor license for connectivity to an additional Emalytics Controller (it is possible to use several update licenses to integrate more than one additional controller).

Building management system - SUP-UP-100 - 2404165

Upgrade of Emalytics Supervisor license from SUP-0 / SUP-1 / SUP-10 to connectivity to up to 100 Emalytics Controllers (SUP-100)

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Building management system - SUP-UP-UNL - 2404166

Upgrade of Emalytics Supervisor license from SUP-100 to connectivity to any number of Emalytics Controllers (SUP-UNL)

Building management system - SUP-AX - 2404168

Emalytics Supervisor license for downgrade to version AX

Building management system - POINTS-50 - 1101297

Emalytics Controller license for an additional 50 data points (with initial purchase of the license)

Building management system - POINTS-100 - 1101298

Emalytics Controller license for an additional 100 data points (with initial purchase of the license)

Building management system - POINTS-500 - 2404199

Emalytics Controller license for an additional 500 data points (with initial purchase of the license)

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Building management system - POINTS-1250 - 2404201

Emalytics Controller license for an additional 1250 data points (with initial purchase of the license)

Building management system - POINTS-2500 - 2404202

Emalytics Controller license for an additional 2500 data points (with initial purchase of the license)

Building management system - POINTS-UP-50 - 1101299

Emalytics Controller update license for an additional 50 data points (following initial purchase of the Niagara license)

Building management system - POINTS-UP-100 - 1101300

Emalytics Controller update license for an additional 100 data points (following initial purchase of the license)

Building management system - POINTS-UP-500 - 2404227

Emalytics Controller update license for an additional 500 data points (following initial purchase of the Niagara license)

Controller - ILC 2050 BI - 2403160

Accessories

Building management system - POINTS-UP-1250 - 2404228

Emalytics Controller update license for an additional 1250 data points (following initial purchase of the Niagara license)

Building management system - POINTS-UP-2500 - 2404229

Emalytics Controller update license for an additional 2500 data points (following initial purchase of the Niagara license)

Building management system - DR-OPC-CL - 2404514

Emalytics Supervisor license for one OPC client driver

Building management system - DR-S-DB-CSV - 2404169

Emalytics Supervisor license for CSV database driver

Building management system - DR-S-DB-MYSQL - 2404171

Emalytics Supervisor license for MYSQL database driver

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Accessories

Building management system - DR-S-DB-ORCL - 2404172

Emalytics Supervisor license for Oracle 11g database driver

Building management system - DR-S-DB-SQL - 2404173

Emalytics Supervisor license for SQL database driver

Building management system - OFFICE-DEMO-PC - 2404321

Emalytics Supervisor demo license with unlimited functionality and 12-month runtime, which will be renewed annually.
This license is not approved for use in production systems. Licenses for use in production systems are available separately.

Building management system - EM-VIEW-NDA-TOPICS-100 - 1061901

Runtime license for Emalytics View for the visualization of 100 topics.
Important note: When purchasing this license, the host ID, user name, and e-mail address must be listed.

Building management system - EM-VIEW-NDA-TOPICS-100-UPDATE - 1061889

Update license for Emalytics View with additional 100 topics.
Important note: When purchasing this license, the host ID, user name, and e-mail address must be listed.

Controller - ILC 2050 BI - 2403160

Accessories

Building management system - EM-VIEW-NDA-SMA-100-1YR - 1061891

Maintenance license (1 year) for Emalytics View for the visualization of 100 topics.
Important note: When purchasing this license, the host ID, user name, and e-mail address must be listed.

Building management system - EM-VIEW-NDA-SMA-100-5YR - 1061894

Maintenance license (5 years) for Emalytics View for the visualization of 100 topics.
Important note: When purchasing this license, the host ID, user name, and e-mail address must be listed.

Building management system - EM-VIEW-NDA-TOPICS-1000 - 1061893

Runtime license for Emalytics View for the visualization of 1000 topics.
Important note: When purchasing this license, the host ID, user name, and e-mail address must be listed.

Building management system - EM-VIEW-NDA-TOPICS-1000-UPDATE - 1061890

Update license for Emalytics View with additional 1000 topics.
Important note: When purchasing this license, the host ID, user name, and e-mail address must be listed.

Building management system - EM-VIEW-NDA-SMA-1000-1YR - 1062623

Maintenance license (1 year) for Emalytics View for the visualization of 1000 topics.
Important note: When purchasing this license, the host ID, user name, and e-mail address must be listed.

Controller - ILC 2050 BI - 2403160

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Building management system - EM-VIEW-NDA-SMA-1000-5YR - 1062644

Maintenance license (5 years) for Emalytics View for the visualization of 1000 topics.
Important note: When purchasing this license, the host ID, user name, and e-mail address must be listed.

Building management system - EM-VIEW-NDA-TOPICS-10000 - 1062720

Runtime license for Emalytics View for the visualization of 10,000 topics.
Important note: When purchasing this license, the host ID, user name, and e-mail address must be listed.

Building management system - EM-VIEW-NDA-TOPICS-10000-UPDATE - 1066991

Update license for Emalytics View with additional 10,000 topics.
Important note: When purchasing this license, the host ID, user name, and e-mail address must be listed.

Building management system - EM-VIEW-NDA-SMA-10000-1YR - 1066993

Maintenance license (1 year) for Emalytics View for the visualization of 10,000 topics.
Important note: When purchasing this license, the host ID, user name, and e-mail address must be listed.

Building management system - EM-VIEW-NDA-SMA-10000-5YR - 1066994

Maintenance license (5 years) for Emalytics View for the visualization of 10000 topics.
Important note: When purchasing this license, the host ID, user name, and e-mail address must be listed.

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Building management system - EM-VIEW-NDA-TOPICS-50000 - 1067021

Runtime license for Emalytics View for the visualization of 50,000 topics.
Important note: When purchasing this license, the host ID, user name, and e-mail address must be listed.

Building management system - EM-VIEW-NDA-TOPICS-50000-UPDATE - 1066978

Update license for Emalytics View with additional 50,000 topics.
Important note: When purchasing this license, the host ID, user name, and e-mail address must be listed.

Building management system - EM-VIEW-NDA-SMA-50000-1YR - 1067022

Maintenance license (1 year) for Emalytics View for the visualization of 50,000 topics.
Important note: When purchasing this license, the host ID, user name, and e-mail address must be listed.

Building management system - EM-VIEW-NDA-SMA-50000-5YR - 1067023

Maintenance license (5 years) for Emalytics View for the visualization of 50,000 topics.
Important note: When purchasing this license, the host ID, user name, and e-mail address must be listed.

Building management system - DR-S-JSON - 1231645

Emalytics Supervisor license for SQL database driver

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Building management system - DR-S-MLS-16 - 1228905

Emalytics Supervisor license for SQL database driver

Building management system - DR-S-MLS-32 - 1228904

Emalytics Supervisor license for SQL database driver

Building management system - DR-S-MLS-64 - 1228903

Emalytics Supervisor license for SQL database driver

Building management system - DR-S-MLS-128 - 1228900

Emalytics Supervisor license for SQL database driver

Distance terminal

Inline terminal - IB IL DOR LV-SET-PAC - 2861645

Inline distance terminal, complete with accessories

I/O component

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Accessories

Inline terminal - IB IL 24 DO8/HD-PAC - 2700172

Inline, Digital output terminal, Digital outputs: 8, 24 V DC, 500 mA, connection method: 1-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL 24 DI8/HD-PAC - 2700173

Inline, Digital input terminal, Digital inputs: 8, 24 V DC, connection method: 1-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline function terminal - IB IL DALI/MM-PAC - 2700605

Inline, DALI master, Multi-master-capable, integrated DALI power supply unit, safe electrical isolation, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Inline function terminal - IB IL RS UNI-PAC - 2700893

Inline communication terminal, for serial data transmission, complete with accessories (connector connector and labeling field), 1 serial input and output channel in RS-485/422 or RS-232 design

Inline function terminal - IB IL MBUS-PAC - 2701927

Inline M-Bus master terminal, for connecting M-Bus devices, complete with accessories (connector and marking field)

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Accessories

Inline function terminal - IB IL RS 485-ECO - 2702141

Inline ECO communication terminal, for serial data transmission, 1 serial input and output channel in RS-485 format, with connector plug

Inline terminal - IB IL AI 4/I/4-20-ECO - 2702495

Inline ECO, Analog input terminal, Analog inputs: 4, 4 mA ... 20 mA, connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector

Inline terminal - IB IL AI 4/U/0-10-ECO - 2702496

Inline ECO, Analog input terminal, Analog inputs: 4, 0 V ... 10 V, connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector

Inline terminal - IB IL AO 4/I/4-20-ECO - 2702497

Inline ECO, Analog output terminal, Analog outputs: 4, 4 mA ... 20 mA, connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector

Inline terminal - IB IL AO 4/U/0-10-ECO - 2702498

Inline ECO, Analog output terminal, Analog outputs: 4, 0 V ... 10 V, connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector

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Inline terminal - IB IL RTD 4/PT100-ECO - 2702499

Inline ECO, Temperature measurement terminal, Analog RTD inputs: 4 (Pt 100), connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector

Inline terminal - IB IL RTD 4/PT1000-ECO - 2702501

Inline ECO, Temperature measurement terminal, Analog RTD inputs: 4 (Pt 1000), connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector

Inline function terminal - IB IL UTH 4/J-ECO - 2702502

Inline ECO, Temperature measurement terminal, Analog UTH inputs: 4 (type J), connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector

Inline function terminal - IB IL UTH 4/K-ECO - 2702503

Inline ECO, Temperature measurement terminal, Analog UTH inputs: 4 (type K), connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector

Inline function terminal - IB IL UTH 4/L-ECO - 2702504

Inline ECO, Temperature measurement terminal, Analog UTH inputs: 4 (type L), connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector

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Accessories

Inline terminal - IB IL 24 DI 8/HD-ECO - 2702792

Inline ECO, Digital input terminal, Digital inputs: 8, 24 V DC, connection method: 1-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector

Inline terminal - IB IL 24 DO 8/HD-ECO - 2702793

Inline ECO, Digital output terminal, Digital outputs: 8, 24 V DC, 500 mA, connection method: 1-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector

Inline function terminal - IB IL RS 232-ECO - 2702795

Inline ECO, communication terminal, serial data transmission, 1 serial input and output channel in RS-232 format, 500 kbps transmission speed in the local bus, IP20 protection, including Inline connector

Inline function terminal - IB IL TEMP 2 RTD-PAC - 2861328

Inline, Temperature measurement terminal, Analog RTD inputs: 2, connection method: 2, 3, 4-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL AI 8/SF-PAC - 2861412

Inline, Analog input terminal, Analog inputs: 8, 0 V ... 5 V, -5 V ... 5 V, 0 V ... 10 V, -10 V ... 10 V, 0 V ... 25 V, -25 V ... 25 V, 0 V ... 50 V, 0 mA ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, 0 mA ... 40 mA, -40 mA ... 40 mA, connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

![Phoenix Contact logo]

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Accessories

Inline terminal - IB IL 120 PWR IN-PAC - 2861454

Inline power terminal block, complete with accessories (connector and labeling field), without fuse, 120 V AC

Inline terminal - IB IL 230 PWR IN-PAC - 2861535

Inline power terminal block, complete with accessories (connector and labeling field), without fuse, 230 V AC

Inline terminal - IB IL 230 DI 1-PAC - 2861548

Inline, Digital input terminal, Digital inputs: 1, 230 V AC, connection method: 3-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL 24 PWR IN/R-PAC - 2861674

Inline power terminal or boost terminal, complete with accessories (connector and labeling field), 24 V DC, without fuse

Inline terminal - IB IL 24/230 DOR4/W-PAC - 2861878

Inline, Relay terminal, Relay outputs: , 4 (floating contacts), 24 V DC, 230 V AC, for switching ohmic loads, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

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Accessories

Inline terminal - IB IL 24/230 DOR1/W-PAC - 2861881

Inline, Relay terminal, Relay output: , 1 (floating contacts), 24 V AC, 230 V AC, for switching ohmic loads, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL 120 DI 1-PAC - 2861917

Inline, Digital input terminal, Digital inputs: 1, 120 V AC, connection method: 3-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL DO 1 AC-PAC - 2861920

Inline, Digital output terminal, Digital outputs: 1, 230 V AC, 500 mA, connection method: 3-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL 24 DO 32/HD-PAC - 2862822

Inline, Digital output terminal, Digital outputs: 32, 24 V DC, 500 mA, connection method: 1-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Inline terminal - IB IL 24 DI 32/HD-PAC - 2862835

Inline, Digital input terminal, Digital inputs: 32, 24 V DC, connection method: 1-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Controller - ILC 2050 BI - 2403160

Accessories

Inline terminal - IB IL 24/48 DOR 2/W-PAC - 2863119

Inline, Relay terminal, Relay outputs: , 2 (floating contacts), 24 V AC, 48 V DC, for switching ohmic loads, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline ME terminal - IB IL 24 DI 4-ME - 2863928

Inline, Digital input terminal, Digital inputs: 4, 24 V DC, connection method: 3-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline ME terminal - IB IL 24 DO 4-ME - 2863931

Inline, Digital output terminal, Digital outputs: 4, 24 V DC, 500 mA, connection method: 3-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline ME terminal - IB IL AI 2/SF-ME - 2863944

Inline, Analog input terminal, Analog inputs: 2, 0 V ... 10 V, -10 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline ME terminal - IB IL AO 2/U/BP-ME - 2863957

Inline, Analog output terminal, Analog outputs: 2, 0 V ... 10 V, -10 V ... 10 V, connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

PHŒNIX CONTACT

Controller - ILC 2050 BI - 2403160

Accessories

Inline terminal - IB IL AO 4/8/U/BP-PAC - 2878036

Inline, Analog output terminal, Analog outputs: 8, 0 V ... 10 V, -10 V ... 10 V, 0 V ... 5 V, -5 V ... 5 V, connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Inline function terminal - IB IL DI 8/S0-PAC - 2897020

Inline, Digital input terminal, Digital inputs: 8 (S0 counter inputs), 24 V DC, connection method: 4-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Inline ME terminal - IB IL 24 DI 16-ME - 2897156

Inline, Digital input terminal, Digital inputs: 16, 24 V DC, connection method: 3-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Inline ME terminal - IB IL 24 DO 16-ME - 2897253

Inline, Digital output terminal, Digital outputs: 16, 24 V DC, 500 mA, connection method: 3-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Inline terminal - IB IL 24/230 DOR4/HC-PAC - 2897716

Inline, Relay terminal, Relay outputs: , 4 (floating contacts), 24 V DC, 230 V AC, high inrush current, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Controller - ILC 2050 BI - 2403160

Accessories

Communication module - IB IL DALI/PWR-PAC - 2897813

Inline, DALI master, integrated DALI power supply unit, safe electrical isolation, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Communication module - IB IL DALI-PAC - 2897910

Inline, DALI master, Extension for IB IL DALI/PWR-PAC, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL AI/TEMP 4 RTD-PAC - 2897952

Inline, Analog input terminal, 0 V ... 10 V, degree of protection: IP20, including Inline connectors and marking fields

Inline function terminal - IB IL MP-BUS-PAC - 2702921

Inline, MP-Bus master terminal for connecting MP-Bus devices, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and marking field

Inline terminal - IB IL AO 4/U/SF-PAC - 1098379

Inline, Analog output terminal, Analog outputs: 4, 0 V ... 10 V, connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL 24 PWR IN/R/L-0.8A-PAC - 2693020

Inline boost terminal for the communications power U_L of 0.8 A, complete with accessories (connectors and labeling field)

Controller - ILC 2050 BI - 2403160

Accessories

Inline terminal - IB IL 24 DO 4/EF-PAC - 2701009

Inline, Digital output terminal, Digital outputs: 4, 24 V DC, 500 mA, connection method: 3-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL 24 DO 4/EF-ECO - 2702825

Inline ECO, Digital output terminal, Digital outputs: 4, 24 V DC, 500 mA, connection method: 3-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector

Inline function terminal - IB IL 24 FLM-PAC - 2736903

Inline, Branch terminal, for extending the Inline local bus to Inline or Fieldline Modular, transmission speed in the local bus: 500 kbps / 2 Mbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL 24 DI 2-PAC - 2861221

Inline, Digital input terminal, Digital inputs: 2, 24 V DC, connection method: 4-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL 24 DI 4-PAC - 2861234

Inline, Digital input terminal, Digital inputs: 4, 24 V DC, connection method: 3-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Controller - ILC 2050 BI - 2403160

Accessories

Inline terminal - IB IL 24 DI 16-PAC - 2861250

Inline, Digital input terminal, Digital inputs: 16, 24 V DC, connection method: 3-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Inline terminal - IB IL 24 DO 2-2A-PAC - 2861263

Inline, Digital output terminal, Digital outputs: 2, 24 V DC, 2 A, connection method: 4-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL 24 DO 4-PAC - 2861276

Inline, Digital output terminal, Digital outputs: 4, 24 V DC, 500 mA, connection method: 3-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL 24 DO 8-PAC - 2861289

Inline, Digital output terminal, Digital outputs: 8, 24 V DC, 500 mA, connection method: 4-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Inline terminal - IB IL 24 DO 16-PAC - 2861292

Inline, Digital output terminal, Digital outputs: 16, 24 V DC, 500 mA, connection method: 3-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

PHŒNIX CONTACT

Controller - ILC 2050 BI - 2403160

Accessories

Inline terminal - IB IL AI 2/SF-PAC - 2861302

Inline, Analog input terminal, Analog inputs: 2, 0 V ... 10 V, -10 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL 24 PWR IN-PAC - 2861331

Inline power terminal, complete with accessories (connector and labeling field), 24 V DC, without fuse

Inline terminal - IB IL 24 SEG-PAC - 2861344

Inline segment terminal block, complete with accessories (connector and labeling field), 24 V DC, without fuse

Inline function terminal - IB IL 24 TC-PAC - 2861360

Inline thermistor terminal block, complete with accessories (connector and labeling field), 2-wire connection method

Inline terminal - IB IL 24 SEG/F-PAC - 2861373

Inline segment terminal, complete with accessories (connector and labeling field), 24 V DC, with fuse

Controller - ILC 2050 BI - 2403160

Accessories

Inline function terminal - IB IL 24 SEG-ELF-PAC - 2861409

Inline segment terminal block, complete with accessories (connector and labeling field), 24 V DC, electronic fuse

Inline terminal - IB IL 24 PWR IN/F-PAC - 2861438

Inline power terminal block, complete with accessories (connector and labeling field), 24 V DC, with fuse (Main voltage)

Inline terminal - IB IL AO 2/U/BP-PAC - 2861467

Inline, Analog output terminal, Analog outputs: 2, 0 V ... 10 V, -10 V ... 10 V, connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL 24 DO 2-PAC - 2861470

Inline, Digital output terminal, Digital outputs: 2, 24 V DC, 500 mA, connection method: 4-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL 24 DI 2-NPN-PAC - 2861483

Inline, Digital input terminal, Digital inputs: 2 (NPN), 24 V DC, connection method: 4-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Controller - ILC 2050 BI - 2403160

Accessories

Inline terminal - IB IL 24 DO 2-NPN-PAC - 2861496

Inline, Digital output terminal, Digital outputs: 2 (NPN), 24 V DC, 500 mA, connection method: 4-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL AI 2/SF-230-PAC - 2861577

Inline, Analog input terminal, Analog inputs: 2, 0 V ... 10 V, -10 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, connection method: 2-wire, transmission speed in the local bus: 500 kbps, 3 dB base frequency at 230 Hz, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL 24 DO 8-2A-PAC - 2861603

Inline, Digital output terminal, Digital outputs: 8, 24 V DC, 2 A, connection method: 4-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Inline terminal - IB IL AI 8/IS-PAC - 2861661

Inline, Analog input terminal, Analog inputs: 8, 0 mA ... 20 mA, 4 mA ... 20 mA, -20 mA ... 20 mA, 0 mA ... 40 mA, -40 mA ... 40 mA, connection method: 2, 3-wire, transmission speed in the local bus: 500 kbps, integrated sensor supply, degree of protection: IP20, including Inline connectors and marking fields

Inline terminal - IB IL 24 PWR IN/F-D-PAC - 2861894

Inline power terminal block, complete with accessories (connector and labeling field), 24 V DC, with fuse (Main voltage) and diagnostics

Controller - ILC 2050 BI - 2403160

Accessories

Inline terminal - IB IL 24 SEG/F-D-PAC - 2861904

Inline segment terminal block, complete with accessories (connector and labeling field), 24 V DC, with fuse and diagnostics

Inline terminal - IB IL 24 PWR IN/2-F-PAC - 2862136

Inline power terminal, complete with accessories (connector and labeling field), 24 V DC, with fuse (main and segment voltage)

Inline terminal - IB IL 24 PWR IN/2-F-D-PAC - 2862152

Inline power terminal block, complete with accessories (connector and labeling field), 24 V DC, with fuse (Main and segment voltage) and diagnostics

Inline terminal - IB IL 24/230 DOR1/W-PC-PAC - 2862178

Inline, Relay terminal, Relay output: , 1 (floating contacts), 24 V DC, 230 V AC, for switching inductive and capacitive loads, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Inline terminal - IB IL 24 DI 8/T2-PAC - 2862204

Inline, Digital input terminal, Digital inputs: 8, 24 V DC, connection method: 4-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Controller - ILC 2050 BI - 2403160

Accessories

Inline terminal - IB IL 24 DI 8-PAC/SN - 2862932

Inline, Digital input terminal, Digital inputs: 8, 24 V DC, connection method: 4-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields, connectors numbered individually

Inline terminal - IB IL 24 DI 16-PAC/SN - 2862958

Inline, Digital input terminal, Digital inputs: 16, 24 V DC, connection method: 3-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields, connectors numbered individually

Inline terminal - IB IL 24 DO 16-PAC/SN - 2862961

Inline, Digital output terminal, Digital outputs: 16, 24 V DC, 500 mA, connection method: 3-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields, connectors numbered individually

Inline terminal - IB IL PD 24V-PAC - 2862987

Inline terminal for power distribution (24 V), complete with accessories, (connector and labeling field) 24 V supply voltage is fed out from the segment circuit (US)

Inline terminal - IB IL PD GND-PAC - 2862990

Inline terminal for power distribution (GND), complete with accessories, (connector and labeling field) connections for GND

Controller - ILC 2050 BI - 2403160

Accessories

Inline terminal - IB IL AO 2/SF-PAC - 2863083

Inline, Analog output terminal, Analog outputs: 2, 0 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Inline terminal - IB IL 24 PWR IN/PS-PAC - 2863135

Inline power terminal, complete with accessories (connection plug and labeling field), 24 V DC, for system voltages U_M, U_S, U_L, U_{ANA}

Inline terminal - IB IL 24 DI 16-NPN-PAC - 2863520

Inline, Digital input terminal, Digital inputs: 16 (NPN), 24 V DC, connection method: 3-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Inline terminal - IB IL 24 PWR IN/2F-DF-PAC - 2863779

Inline power terminal block, complete with accessories (connector and labeling field), 24 V DC, with fuse (Main and segment voltage) and diagnostics

Inline terminal - IB IL 24 DI 32/HD-NPN-PAC - 2878243

Inline, Digital input terminal, Digital inputs: 32 (NPN), 24 V DC, connection method: 1-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Controller - ILC 2050 BI - 2403160

Accessories

Inline terminal - IB IL 24 DO 32/HD-NPN-PAC - 2878340

Inline, Digital output terminal, Digital outputs: 32 (NPN), 24 V DC, 500 mA, connection method: 1-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Inline terminal - IB IL 230 PWR IN/F-D-PAC - 2878971

Inline power terminal, complete with accessories (connector and labeling field), 230 V AC, with fuse and diagnostics

Inline function terminal - IB IL 24 LSKIP-PAC - 2897457

Inline, Coupler terminal, for extending the Inline local bus, transmission speed in the local bus: 500 kbps / 2 Mbps, degree of protection: IP20, including Inline connectors and marking fields

Bus coupler - IBS IL 24 BK-T/U-PAC - 2861580

Inline, Bus coupler, INTERBUS, Inline shield connector, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Branch terminal - IBS IL 24 RB-T-PAC - 2861441

INTERBUS branch terminal, complete with accessories (connector plug and labeling field), with remote bus branch, 24 V DC

PHŒNIX CONTACT

Controller - ILC 2050 BI - 2403160

Accessories

Inline terminal - IB IL 24 DI 8-PAC - 2861247

Inline, Digital input terminal, Digital inputs: 8, 24 V DC, connection method: 4-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

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IO components, safety related

Safety module - IB IL SAFE 2-ECO - 2702446

Inline ECO, Safety module, Digital inputs: 4 (for 2 sensor circuits (1- or 2-channel, non-equivalent/equivalent)), Enabling current path: , 1 (internal, two-channel enabling current path), N/O contact, for safety-related shutdown of the segment voltage by means of potential routing, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

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