

ILC 2050 BI - Controller



2403160

<https://www.phoenixcontact.com/us/products/2403160>

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Modular Inline controller for automation applications in the fields of building technology, infrastructure, and energy technology. Equipped with two logically separated IP address interfaces each with 2 integrated Fast Ethernet ports. Configurable assignment of the Ethernet ports for the use of the spanning-tree protocol, daisy chain and redundant ring structures for maximum availability. Four LAN, two USB, and two RS-485 interfaces are integrated. The data point connections can be extended with up to 63 Inline I/O modules: digital and analog, function terminals for DALI, pulse counting, MBUS or serial interfaces.

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

Commercial data

Item number	2403160
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR18
Product key	DRHAAA
Catalog page	Page 47 (C-6-2019)
GTIN	4055626260587
Weight per piece (including packing)	339.5 g
Weight per piece (excluding packing)	243 g
Customs tariff number	85371091
Country of origin	DE

Technical data

Product properties

Product type	Controller
Product family	Inline-Controller
Type	modular

Display

Diagnostics display	No
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System properties

Processor	Arm®Cortex®-A8 1 GHz
Retentive data storage	2 GByte (eMMC)
RAM	1024 Mbyte DDR3 SDRAM

IEC 61131 runtime system

Program memory	1 GByte (SRAM)
Data storage system	1.8 GByte (eMMC)

Function

Diagnostics display	No
Controller redundancy	No
Safety function	No

Functionality

Programming languages supported	Niagara Framework®
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System requirements

Engineering tool	Emalytics
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Electrical properties

Supply

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

Real-time clock

Realtime clock	Yes
Description realtime clock	integrated (rechargeable battery buffered)

Potentials

Supply voltage	24 V DC -15 % / +20 % (in accordance with EN 61131-2)
Supply voltage range	19.2 V DC ... 30 V DC

Connection data

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Inline connector

Connection method	Spring-cage connection
Conductor cross section, rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross section, flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross section AWG	28 ... 16

Interfaces

Supported protocols	BACnet/IP
	BACnet MS/TP (only at COM1 and COM2)
	Modbus/TCP
	Modbus/RTU
	KNX IP
	DALI
	DALI-2
	LON IP
	EnOcean
	SMI
	MP-Bus
	SNMP
	M-Bus
	MQTT
	OPC UA
	Simple OpenADR
LDAP	
SMS	
CSV	
oBIX	
Milestone Video Framework Interface	
Web server	yes

Ethernet

Bus system	RJ45
Number of interfaces	4
Connection method	RJ45 jack
Transmission speed	10/100 Mbps
No. of channels	2
Bus system	RS-485
Number of interfaces	2

USB

Bus system	USB type A
Number of interfaces	1

USB

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Bus system	Mini-USB
Number of interfaces	1

microSD

Bus system	microSD
Number of interfaces	1 (Top)
Connection method	microSD slot

Dimensions

Width	80 mm
Height	119.8 mm
Depth	71.5 mm

Material specifications

Color	green
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C (observe derating)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	0 % ... 75 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	0 % ... 75 % (according to DIN EN 61131-2)
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 hPa ... 106 kPa (up to 3000 m above sea level)
GRP_Temperature class	T4
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 ₂ S) 1 ±0.3 ppm (test duration: 4 days), both at 25°C and with 75% humidity

Mounting

Mounting type	DIN rail mounting
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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2403160>



UL Listed

Approval ID: FILE E 238705



cUL Listed

Approval ID: FILE E 238705

UAE-RoHS

Approval ID: 22-04-13085

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27242207
ECLASS-12.0	27242207
ECLASS-13.0	27242207

ETIM

ETIM 9.0	EC000236
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UNSPSC

UNSPSC 21.0	32151700
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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EF3.0 Climate Change

CO2e kg	63.06 kg CO2e
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Accessories

EM-VIEW-NDA-ENGINEERING - Building management system

1139368

<https://www.phoenixcontact.com/us/products/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.

NC4-DEMO - Building management system

1061902

<https://www.phoenixcontact.com/us/products/1061902>



Emalytics Controller demo license for test and engineering purposes with unlimited functionality and 12-month validity, which will be renewed annually.

This license is not approved for use in production systems. Licenses for use in production systems are available separately.

Please note: By using the demo license, the controller used will be bound to the demo license for the long term. Productive operation is no longer possible for a controller licensed for demo purposes. That is why we recommend using a dedicated controller for internal testing purposes.

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NC4-100 - Building management system

1045861

<https://www.phoenixcontact.com/us/products/1045861>



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

NC4-250 - Building management system

2404194

<https://www.phoenixcontact.com/us/products/2404194>



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

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NC4-500 - Building management system

2404195

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

NC4-1250 - Building management system

2404196

<https://www.phoenixcontact.com/us/products/2404196>



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

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NC4-5000 - Building management system

2404197

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

NC4-10000 - Building management system

2404198

<https://www.phoenixcontact.com/us/products/2404198>



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

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

1101277

<https://www.phoenixcontact.com/us/products/1101277>



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

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

1101283

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

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

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

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

2404204

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

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

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

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

2404206

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

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

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

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

2404209

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

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

2404210

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

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

2404212

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

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

2404213

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

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

2404214

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

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

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

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

2404217

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

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

2404218

<https://www.phoenixcontact.com/us/products/2404218>



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

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

2404221

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

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

2404222

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

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

2404223

<https://www.phoenixcontact.com/us/products/2404223>



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

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POINTS-50 - Building management system

1101297

<https://www.phoenixcontact.com/us/products/1101297>



Emalytics Controller license for an additional 50 data points

POINTS-100 - Building management system

1101298

<https://www.phoenixcontact.com/us/products/1101298>



Emalytics Controller license for an additional 100 data points

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POINTS-500 - Building management system

2404199

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Emalytics Controller license for an additional 500 data points

POINTS-1250 - Building management system

2404201

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Emalytics Controller license for an additional 1250 data points

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POINTS-2500 - Building management system

2404202

<https://www.phoenixcontact.com/us/products/2404202>



Emalytics Controller license for an additional 2500 data points

NC4-DR-SMSALM - Building management system

1140562

<https://www.phoenixcontact.com/us/products/1140562>



SMS driver license for Emalytics Controller

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DR-JSON - Building management system

1439254

<https://www.phoenixcontact.com/us/products/1439254>



JSON toolkit for Emalytics Controller, enables JSON-based interface development, valid maintenance license required

DR-FLEX - Building management system

1394057

<https://www.phoenixcontact.com/us/products/1394057>



Emalytics Controller license for flex driver

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OFFICE-DEMO-PC - Building management system

2404321

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Elytics Supervisor demo license for testing and engineering purposes with unlimited functionality and 12-month validity, which will be renewed annually.

This license is not approved for use in production systems. Licenses for use in production systems are available separately.

Please note: By using the demo license, the server used will be bound to the demo license for the long term. Productive operation is no longer possible for a server licensed for demo purposes. That is why we recommend using a dedicated server for internal test purposes.

SUP-0 - Building management system

2404065

<https://www.phoenixcontact.com/us/products/2404065>



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

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<https://www.phoenixcontact.com/us/products/2403160>



SUP-1 - Building management system

2404136

<https://www.phoenixcontact.com/us/products/2404136>



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

SUP-10 - Building management system

2404156

<https://www.phoenixcontact.com/us/products/2404156>



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

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<https://www.phoenixcontact.com/us/products/2403160>



SUP-100 - Building management system

2404157

<https://www.phoenixcontact.com/us/products/2404157>



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

SUP-UNL - Building management system

2404158

<https://www.phoenixcontact.com/us/products/2404158>



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

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SUP-POINTS-500 - Building management system

2404159

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Emalytics Supervisor license for an additional 500 data points

SUP-POINTS-1250 - Building management system

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Emalytics Supervisor license for an additional 1250 data points

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SUP-POINTS-2500 - Building management system

2404161

<https://www.phoenixcontact.com/us/products/2404161>



Emalytics Supervisor license for an additional 2500 data points

SUP-POINTS-5000 - Building management system

2404162

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Emalytics Supervisor license for an additional 5000 data points

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SUP-POINTS-10000 - Building management system

2404163

<https://www.phoenixcontact.com/us/products/2404163>



Emalytics Supervisor license for an additional 10000 data points

SUP-UP-1 - Building management system

2404164

<https://www.phoenixcontact.com/us/products/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).

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SUP-UP-100 - Building management system

2404165

<https://www.phoenixcontact.com/us/products/2404165>



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

SUP-UP-UNL - Building management system

2404166

<https://www.phoenixcontact.com/us/products/2404166>



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

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DR-S-DB-CSV - Building management system

2404169

<https://www.phoenixcontact.com/us/products/2404169>



Analytics Supervisor license for CSV database driver

DR-S-DB-MYSQL - Building management system

2404171

<https://www.phoenixcontact.com/us/products/2404171>



Analytics Supervisor license for MYSQL database driver

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DR-S-DB-ORCL - Building management system

2404172

<https://www.phoenixcontact.com/us/products/2404172>



Emalytics Supervisor license for Oracle 11g database driver

DR-S-DB-SQL - Building management system

2404173

<https://www.phoenixcontact.com/us/products/2404173>



Emalytics Supervisor license for SQL database driver

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DR-S-MLS-16 - Building management system

1228905

<https://www.phoenixcontact.com/us/products/1228905>



Milestone camera driver for Emalytics Supervisor, enables the integration of up to 16 cameras

DR-S-MLS-32 - Building management system

1228904

<https://www.phoenixcontact.com/us/products/1228904>



Milestone camera driver for Emalytics Supervisor, enables the integration of up to 32 cameras

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DR-S-MLS-64 - Building management system

1228903

<https://www.phoenixcontact.com/us/products/1228903>



Milestone camera driver for Emalytics Supervisor, enables the integration of up to 64 cameras

DR-S-MLS-128 - Building management system

1228900

<https://www.phoenixcontact.com/us/products/1228900>



Milestone camera driver for Emalytics Supervisor, enables the integration of up to 128 cameras

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DR-S-JSON - Building management system

1231645

<https://www.phoenixcontact.com/us/products/1231645>



JSON toolkit for Emalytics Supervisor, enables JSON-based interface development, valid maintenance license required

DR-S-MFID - Building management system

1337650

<https://www.phoenixcontact.com/us/products/1337650>



Emalytics supervisor license for Micros Fidelio IP driver

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

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

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

2404176

<https://www.phoenixcontact.com/us/products/2404176>



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

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

2404177

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

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

2404179

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

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

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

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

2404181

<https://www.phoenixcontact.com/us/products/2404181>



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

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

2404183

<https://www.phoenixcontact.com/us/products/2404183>



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

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

2404184

<https://www.phoenixcontact.com/us/products/2404184>



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

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

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<https://www.phoenixcontact.com/us/products/2404185>



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

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

2404187

<https://www.phoenixcontact.com/us/products/2404187>



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

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

2404188

<https://www.phoenixcontact.com/us/products/2404188>



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

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

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<https://www.phoenixcontact.com/us/products/2404189>



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

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

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<https://www.phoenixcontact.com/us/products/2404191>



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

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

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<https://www.phoenixcontact.com/us/products/2404192>



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

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

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<https://www.phoenixcontact.com/us/products/2404193>



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

PARTNER-ACCESS - Building management system

1139362

<https://www.phoenixcontact.com/us/products/1139362>



Access to the Emalytics Automation license portal for 1 year (May 1 - April 30).

Enables you to view, download, and move Emalytics Automation licenses. It is not possible to purchase new licenses independently. The order must still be placed via your Phoenix Contact sales team.

The actual total billing amount is calculated based on the remaining period through to April 30.

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EMALYTICS COLLECTOR REGULAR - Building management system

1348410

<https://www.phoenixcontact.com/us/products/1348410>



Cloud-based data acquisition for monitoring technical building and energy systems, regular license with 3 user licenses and 2500 data points per building unit. Billed on a monthly basis. Cancellation is possible in any given month.

EMALYTICS COLLECTOR MEDIUM - Building management system

1348407

<https://www.phoenixcontact.com/us/products/1348407>



Cloud-based data acquisition for monitoring technical building and energy systems, medium license with 10 user licenses, 10000 data points per building unit, and write function (100 data points). Billed on a monthly basis. Cancellation is possible in any given month.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EMALYTICS COLLECTOR PREMIUM - Building management system

1348409

<https://www.phoenixcontact.com/us/products/1348409>



Cloud-based data acquisition for monitoring technical building and energy systems, premium license with unlimited number of users, 50000 data points per building unit, and write function (500 data points). Billed on a monthly basis. Cancellation is possible in any given month.

EMALYTICS ANALYZER - Building management system

1348336

<https://www.phoenixcontact.com/us/products/1348336>



Cloud-based analyzer for technical building components for the purpose of optimization and increased efficiency, requires Emalytics Collector medium or premium license. Billed on a monthly basis. Cancellation is possible in any given month.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EMALYTICS CONTROL - Building management system

1348412

<https://www.phoenixcontact.com/us/products/1348412>



Cloud-based control of systems and components for operational optimization of buildings through AI and self-learning algorithms. Billed on a monthly basis. Cancellation is possible in any given month.

EM-VIEW DP 250 - Building management system

1589228

<https://www.phoenixcontact.com/us/products/1589228>



Runtime license for Emalytics View for the visualization of up to 250 Niagara data points; this license has no time limit.
Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW DP 500 - Building management system

1589229

<https://www.phoenixcontact.com/us/products/1589229>



Runtime license for Emalytics View for the visualization of up to 500 Niagara data points; this license has no time limit.

Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW DP 1250 - Building management system

1589232

<https://www.phoenixcontact.com/us/products/1589232>



Runtime license for Emalytics View for the visualization of up to 1250 Niagara data points; this license has no time limit.

When purchasing this license, the following information must be provided: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW DP 2500 - Building management system

1589249

<https://www.phoenixcontact.com/us/products/1589249>



Runtime license for Emyalytics View for the visualization of up to 2500 Niagara data points; this license has no time limit.

Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emyalytics View is running and the email address to which the license is to be sent.

EM-VIEW DP 5000 - Building management system

1589251

<https://www.phoenixcontact.com/us/products/1589251>



Runtime license for Emyalytics View for the visualization of up to 5000 Niagara data points; this license has no time limit.

Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emyalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW DP 10000 - Building management system

1589254

<https://www.phoenixcontact.com/us/products/1589254>



Runtime license for Emalytics View for the visualization of up to 10000 Niagara data points; this license has no time limit.

Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW DP 25000 - Building management system

1589255

<https://www.phoenixcontact.com/us/products/1589255>



Runtime license for Emalytics View for the visualization of up to 25000 Niagara data points; this license has no time limit.

Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW DP 50000 - Building management system

1589221

<https://www.phoenixcontact.com/us/products/1589221>



Runtime license for Emalytics View for the visualization of up to 50000 Niagara data points; this license has no time limit.

Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW DP UNL - Building management system

1589257

<https://www.phoenixcontact.com/us/products/1589257>



Runtime license for Emalytics View for the visualization of an unlimited number of Niagara data points; this license has no time limit.

Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 250 TO 500 - Building management system

1589119

<https://www.phoenixcontact.com/us/products/1589119>



Upgrade license for Emalytics View to extend the runtime license from 250 Niagara data points to 500 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 250 TO 1250 - Building management system

1589120

<https://www.phoenixcontact.com/us/products/1589120>



Upgrade license for Emalytics View to extend the runtime license from 250 Niagara data points to 1250 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 250 TO 2500 - Building management system

1589122

<https://www.phoenixcontact.com/us/products/1589122>



Upgrade license for Emalytics View to extend the runtime license from 250 Niagara data points to 2500 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 250 TO 5000 - Building management system

1589123

<https://www.phoenixcontact.com/us/products/1589123>



Upgrade license for Emalytics View to extend the runtime license from 250 Niagara data points to 5000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 250 TO 10000 - Building management system

1589124

<https://www.phoenixcontact.com/us/products/1589124>



Upgrade license for Emalytics View to extend the runtime license from 250 Niagara data points to 10000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 250 TO 25000 - Building management system

1589125

<https://www.phoenixcontact.com/us/products/1589125>



Upgrade license for Emalytics View to extend the runtime license from 250 Niagara data points to 25000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 250 TO 50000 - Building management system

1589126

<https://www.phoenixcontact.com/us/products/1589126>



Upgrade license for Emyalytics View to extend the runtime license from 250 Niagara data points to 50000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emyalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 250 TO UNL - Building management system

1589127

<https://www.phoenixcontact.com/us/products/1589127>



Upgrade license for Emyalytics View to extend the runtime license from 250 Niagara data points to an unlimited number of data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emyalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 500 TO 1250 - Building management system

1589158

<https://www.phoenixcontact.com/us/products/1589158>



Upgrade license for Emalytics View to extend the runtime license from 500 Niagara data points to 1250 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 500 TO 2500 - Building management system

1589159

<https://www.phoenixcontact.com/us/products/1589159>



Upgrade license for Emalytics View to extend the runtime license from 500 Niagara data points to 2500 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 500 TO 5000 - Building management system

1589160

<https://www.phoenixcontact.com/us/products/1589160>



Upgrade license for Emalytics View to extend the runtime license from 500 Niagara data points to 5000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 500 TO 10000 - Building management system

1589161

<https://www.phoenixcontact.com/us/products/1589161>



Upgrade license for Emalytics View to extend the runtime license from 500 Niagara data points to 10000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 500 TO 25000 - Building management system

1589162

<https://www.phoenixcontact.com/us/products/1589162>



Upgrade license for Emalytics View to extend the runtime license from 500 Niagara data points to 25000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 500 TO 50000 - Building management system

1589163

<https://www.phoenixcontact.com/us/products/1589163>



Upgrade license for Emalytics View to extend the runtime license from 500 Niagara data points to 50000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 500 TO UNL - Building management system

1589164

<https://www.phoenixcontact.com/us/products/1589164>



Upgrade license for Emalytics View to extend the runtime license from 500 Niagara data points to an unlimited number of data points; this license has no time limit.

Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 1250 TO 2500 - Building management system

1589166

<https://www.phoenixcontact.com/us/products/1589166>



Upgrade license for Emalytics View to extend the runtime license from 1250 Niagara data points to 2500 data points; this license has no time limit.

Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 1250 TO 5000 - Building management system

1589167

<https://www.phoenixcontact.com/us/products/1589167>



Upgrade license for Emalytics View to extend the runtime license from 1250 Niagara data points to 5000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 1250 TO 10000 - Building management system

1589168

<https://www.phoenixcontact.com/us/products/1589168>



Upgrade license for Emalytics View to extend the runtime license from 1250 Niagara data points to 10000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 1250 TO 25000 - Building management system

1589169

<https://www.phoenixcontact.com/us/products/1589169>



Upgrade license for Emalytics View to extend the runtime license from 1250 Niagara data points to 25000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 1250 TO 50000 - Building management system

1589170

<https://www.phoenixcontact.com/us/products/1589170>



Upgrade license for Emalytics View to extend the runtime license from 1250 Niagara data points to 50000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 1250 TO UNL - Building management system

1589171

<https://www.phoenixcontact.com/us/products/1589171>



Upgrade license for Emalytics View to extend the runtime license from 1250 Niagara data points to an unlimited number of data points; this license has no time limit.

Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 2500 TO 5000 - Building management system

1589172

<https://www.phoenixcontact.com/us/products/1589172>



Upgrade license for Emalytics View to extend the runtime license from 2500 Niagara data points to 5000 data points; this license has no time limit.

Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 2500 TO 10000 - Building management system

1589173

<https://www.phoenixcontact.com/us/products/1589173>



Upgrade license for Emalytics View to extend the runtime license from 2500 Niagara data points to 10000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 2500 TO 25000 - Building management system

1589174

<https://www.phoenixcontact.com/us/products/1589174>



Upgrade license for Emalytics View to extend the runtime license from 2500 Niagara data points to 25000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 2500 TO 50000 - Building management system

1589175

<https://www.phoenixcontact.com/us/products/1589175>



Upgrade license for Emyalytics View to extend the runtime license from 2500 Niagara data points to 50000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emyalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 2500 TO UNL - Building management system

1589176

<https://www.phoenixcontact.com/us/products/1589176>



Upgrade license for Emyalytics View to extend the runtime license from 2500 Niagara data points to an unlimited number of data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emyalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 5000 TO 10000 - Building management system

1589216

<https://www.phoenixcontact.com/us/products/1589216>



Upgrade license for Emalytics View to extend the runtime license from 5000 Niagara data points to 10000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 5000 TO 25000 - Building management system

1589217

<https://www.phoenixcontact.com/us/products/1589217>



Upgrade license for Emalytics View to extend the runtime license from 5000 Niagara data points to 25000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 5000 TO 50000 - Building management system

1589219

<https://www.phoenixcontact.com/us/products/1589219>



Upgrade license for Emyalytics View to extend the runtime license from 5000 Niagara data points to 50000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emyalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 5000 TO UNL - Building management system

1589541

<https://www.phoenixcontact.com/us/products/1589541>



Upgrade license for Emyalytics View to extend the runtime license from 5000 Niagara data points to an unlimited number of data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emyalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 10000 TO 25000 - Building management system

1589542

<https://www.phoenixcontact.com/us/products/1589542>



Upgrade license for Emalytics View to extend the runtime license from 10000 Niagara data points to 25000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 10000 TO 50000 - Building management system

1589543

<https://www.phoenixcontact.com/us/products/1589543>



Upgrade license for Emalytics View to extend the runtime license from 10000 Niagara data points to 50000 data points; this license has no time limit. Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 10000 TO UNL - Building management system

1589544

<https://www.phoenixcontact.com/us/products/1589544>



Upgrade license for Emalytics View to extend the runtime license from 10000 Niagara data points to an unlimited number of data points; this license has no time limit.

Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 25000 TO 50000 - Building management system

1589545

<https://www.phoenixcontact.com/us/products/1589545>



Upgrade license for Emalytics View to extend the runtime license from 25000 Niagara data points to 50000 data points; this license has no time limit.

Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW UPGRADE 25000 TO UNL - Building management system

1589546

<https://www.phoenixcontact.com/us/products/1589546>



Upgrade license for Emalytics View to extend the runtime license from 25000 Niagara data points to an unlimited number of data points; this license has no time limit.

Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

EM-VIEW UPGRADE 50000 TO UNL - Building management system

1589547

<https://www.phoenixcontact.com/us/products/1589547>



Upgrade license for Emalytics View to extend the runtime license from 5000 Niagara data points to an unlimited number of data points; this license has no time limit.

Please note that the following information must be provided when purchasing this license: The host ID of the machine on which Emalytics View is running and the email address to which the license is to be sent.

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



EM-VIEW DEMO - Building management system

1663691

<https://www.phoenixcontact.com/us/products/1663691>

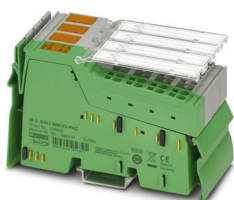


Emalytics View demo license for test and engineering purposes with unlimited functionality and validity. This license is not approved for use in production systems. Licenses for use in production systems are available separately.

IB IL DALI MM-V2-PAC - Communication module

1199811

<https://www.phoenixcontact.com/us/products/1199811>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 PWR IN/R/L-0.8A-PAC - Power module

2693020

<https://www.phoenixcontact.com/us/products/2693020>



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

IB IL 24 DO8/HD-PAC - Digital module

2700172

<https://www.phoenixcontact.com/us/products/2700172>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 DI8/HD-PAC - Digital module

2700173

<https://www.phoenixcontact.com/us/products/2700173>

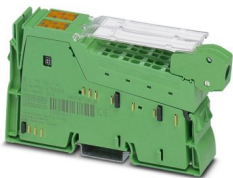


Inline, Digital input terminal, Digital inputs: 8, 24 V DC, connection technology: 1-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

IB IL RS UNI-PAC - Communication module

2700893

<https://www.phoenixcontact.com/us/products/2700893>



Inline, Communication terminal, interface RS-232, RS-485, RS-422: 1 (be operated simultaneously), transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 DO 4/EF-PAC - Digital module

2701009

<https://www.phoenixcontact.com/us/products/2701009>



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

IB IL MBUS-PAC - Communication module

2701927

<https://www.phoenixcontact.com/us/products/2701927>



Inline, M-Bus master, interface M-Bus, for the connection of M-Bus devices, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL RS 485-ECO - Communication module

2702141

<https://www.phoenixcontact.com/us/products/2702141>



Inline, Communication terminal, interface RS-485: 1, Communication via process data, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector

IB IL SAFE 2-ECO - Safety module

2702446

<https://www.phoenixcontact.com/us/products/2702446>



Inline, Safety module, Functional safety, Digital inputs: 4 (for 2 sensor circuits (1- or 2-channel, non-equivalent/equivalent)), Enabling current path: 1 (internal, 2-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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL AI 4/I/4-20-ECO - Analog module

2702495

<https://www.phoenixcontact.com/us/products/2702495>

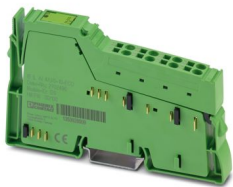


Inline, Analog input terminal, Analog inputs: 4, 4 mA ... 20 mA, connection technology: 2-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector

IB IL AI 4/U/0-10-ECO - Analog module

2702496

<https://www.phoenixcontact.com/us/products/2702496>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL AO 4/I/4-20-ECO - Analog module

2702497

<https://www.phoenixcontact.com/us/products/2702497>



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

IB IL AO 4/U/0-10-ECO - Analog module

2702498

<https://www.phoenixcontact.com/us/products/2702498>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL RTD 4/PT100-ECO - Temperature module

2702499

<https://www.phoenixcontact.com/us/products/2702499>



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

IB IL RTD 4/PT1000-ECO - Temperature module

2702501

<https://www.phoenixcontact.com/us/products/2702501>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL UTH 4/J-ECO - Temperature module

2702502

<https://www.phoenixcontact.com/us/products/2702502>



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

IB IL UTH 4/K-ECO - Temperature module

2702503

<https://www.phoenixcontact.com/us/products/2702503>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



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

2702504

<https://www.phoenixcontact.com/us/products/2702504>



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

IB IL 24 DI 8/HD-ECO - Digital module

2702792

<https://www.phoenixcontact.com/us/products/2702792>



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

ILC 2050 BI - Controller

2403160

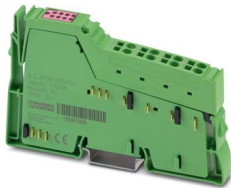
<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 DO 8/HD-ECO - Digital module

2702793

<https://www.phoenixcontact.com/us/products/2702793>



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

IB IL RS 232-ECO - Communication module

2702795

<https://www.phoenixcontact.com/us/products/2702795>



Inline, Communication terminal, interface RS-232: 1, Communication via process data, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector

ILC 2050 BI - Controller

2403160

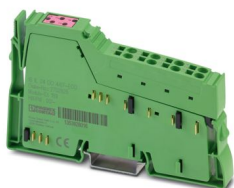
<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 DO 4/EF-ECO - Digital module

2702825

<https://www.phoenixcontact.com/us/products/2702825>



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

IB IL MP-BUS-PAC - Communication module

2702921

<https://www.phoenixcontact.com/us/products/2702921>



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

ILC 2050 BI - Controller

2403160

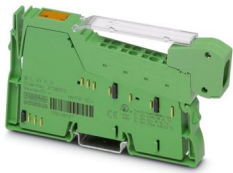
<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 FLM-PAC - Communication module

2736903

<https://www.phoenixcontact.com/us/products/2736903>



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

IB IL 24 DI 2-PAC - Digital module

2861221

<https://www.phoenixcontact.com/us/products/2861221>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 DI 4-PAC - Digital module

2861234

<https://www.phoenixcontact.com/us/products/2861234>



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

IB IL 24 DI 8-PAC - Digital module

2861247

<https://www.phoenixcontact.com/us/products/2861247>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 DI 16-PAC - Digital module

2861250

<https://www.phoenixcontact.com/us/products/2861250>



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

IB IL 24 DO 2-2A-PAC - Digital module

2861263

<https://www.phoenixcontact.com/us/products/2861263>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 DO 4-PAC - Digital module

2861276

<https://www.phoenixcontact.com/us/products/2861276>



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

IB IL 24 DO 8-PAC - Digital module

2861289

<https://www.phoenixcontact.com/us/products/2861289>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 DO 16-PAC - Digital module

2861292

<https://www.phoenixcontact.com/us/products/2861292>



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

IB IL AI 2/SF-PAC - Analog module

2861302

<https://www.phoenixcontact.com/us/products/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 technology: 2-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL TEMP 2 RTD-PAC - Temperature module

2861328

<https://www.phoenixcontact.com/us/products/2861328>



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

IB IL 24 PWR IN-PAC - Power module

2861331

<https://www.phoenixcontact.com/us/products/2861331>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 SEG-PAC - Segmentation module

2861344

<https://www.phoenixcontact.com/us/products/2861344>



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

IB IL 24 TC-PAC - Analog module

2861360

<https://www.phoenixcontact.com/us/products/2861360>



Inline thermistor terminal, complete with accessories (connector and marking field), 2-conductor connection technology

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 SEG/F-PAC - Segmentation module

2861373

<https://www.phoenixcontact.com/us/products/2861373>



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

IB IL 24 SEG-ELF-PAC - Segmentation module

2861409

<https://www.phoenixcontact.com/us/products/2861409>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL AI 8/SF-PAC - Analog module

2861412

<https://www.phoenixcontact.com/us/products/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 technology: 2-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

IB IL 24 PWR IN/F-PAC - Power module

2861438

<https://www.phoenixcontact.com/us/products/2861438>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IBS IL 24 RB-T-PAC - Communication module

2861441

<https://www.phoenixcontact.com/us/products/2861441>



Inline, branch terminal, INTERBUS, Inline shield plug, with remote bus branch, transmission speed in the local bus: 500 Kbps, degree of protection: IP20, including Inline connector and marking field

IB IL 120 PWR IN-PAC - Power module

2861454

<https://www.phoenixcontact.com/us/products/2861454>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL AO 2/U/BP-PAC - Analog module

2861467

<https://www.phoenixcontact.com/us/products/2861467>



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

IB IL 24 DO 2-PAC - Digital module

2861470

<https://www.phoenixcontact.com/us/products/2861470>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 DI 2-NPN-PAC - Digital module

2861483

<https://www.phoenixcontact.com/us/products/2861483>



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

IB IL 24 DO 2-NPN-PAC - Digital module

2861496

<https://www.phoenixcontact.com/us/products/2861496>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 230 PWR IN-PAC - Power module

2861535

<https://www.phoenixcontact.com/us/products/2861535>



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

IB IL AI 2/SF-230-PAC - Analog module

2861577

<https://www.phoenixcontact.com/us/products/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 technology: 2-conductor, 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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



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

2861580

<https://www.phoenixcontact.com/us/products/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

IB IL 24 DO 8-2A-PAC - Digital module

2861603

<https://www.phoenixcontact.com/us/products/2861603>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL DOR LV-SET-PAC - Disconnect terminal block

2861645

<https://www.phoenixcontact.com/us/products/2861645>

Inline distance terminal, complete with accessories



IB IL AI 8/IS-PAC - Analog module

2861661

<https://www.phoenixcontact.com/us/products/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 technology: 2-, 3-conductor, transmission speed in the local bus: 500 kbps, integrated sensor supply, degree of protection: IP20, including Inline connectors and marking fields



ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 PWR IN/R-PAC - Power module

2861674

<https://www.phoenixcontact.com/us/products/2861674>



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

IB IL 24/230 DOR4/W-PAC - Relay Module

2861878

<https://www.phoenixcontact.com/us/products/2861878>



Inline, Relay terminal, Relay outputs: 4 (floating), Changeover contact, 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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24/230 DOR1/W-PAC - Relay Module

2861881

<https://www.phoenixcontact.com/us/products/2861881>



Inline, Relay terminal, Relay output: 1 (floating), Changeover contact, 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

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

2861894

<https://www.phoenixcontact.com/us/products/2861894>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 SEG/F-D-PAC - Segmentation module

2861904

<https://www.phoenixcontact.com/us/products/2861904>



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

IB IL 120 DI 1-PAC - Digital module

2861917

<https://www.phoenixcontact.com/us/products/2861917>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL DO 1 AC-PAC - Digital module

2861920

<https://www.phoenixcontact.com/us/products/2861920>



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

IB IL 24 PWR IN/2-F-PAC - Power module

2862136

<https://www.phoenixcontact.com/us/products/2862136>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 PWR IN/2-F-D-PAC - Power module

2862152

<https://www.phoenixcontact.com/us/products/2862152>



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

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

2862178

<https://www.phoenixcontact.com/us/products/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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 DI 8/T2-PAC - Digital module

2862204

<https://www.phoenixcontact.com/us/products/2862204>



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

IB IL 24 DO 32/HD-PAC - Digital module

2862822

<https://www.phoenixcontact.com/us/products/2862822>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 DI 32/HD-PAC - Digital module

2862835

<https://www.phoenixcontact.com/us/products/2862835>



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

IB IL 24 DI 8-PAC/SN - Digital module

2862932

<https://www.phoenixcontact.com/us/products/2862932>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 DI 16-PAC/SN - Digital module

2862958

<https://www.phoenixcontact.com/us/products/2862958>



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

IB IL 24 DO 16-PAC/SN - Digital module

2862961

<https://www.phoenixcontact.com/us/products/2862961>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL PD 24V-PAC - Potential distributors

2862987

<https://www.phoenixcontact.com/us/products/2862987>

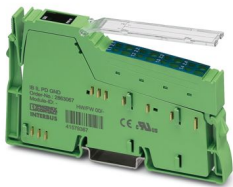


Inline terminal for power distribution (24 V), complete with accessories, (connector and labeling field) 24 V supply voltage is fed out from the segment circuit (US)

IB IL PD GND-PAC - Potential distributors

2862990

<https://www.phoenixcontact.com/us/products/2862990>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL AO 2/SF-PAC - Analog module

2863083

<https://www.phoenixcontact.com/us/products/2863083>



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

IB IL 24/48 DOR 2/W-PAC - Relay Module

2863119

<https://www.phoenixcontact.com/us/products/2863119>



Inline, Relay terminal, Relay outputs: 2 (floating), Changeover contact, 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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 PWR IN/PS-PAC - Power module

2863135

<https://www.phoenixcontact.com/us/products/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}

IB IL 24 DI 16-NPN-PAC - Digital module

2863520

<https://www.phoenixcontact.com/us/products/2863520>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



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

2863779

<https://www.phoenixcontact.com/us/products/2863779>

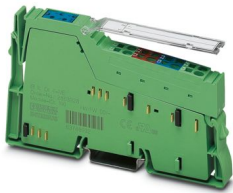


Inline power terminal block, complete with accessories (connector and labeling field), 24 V DC, with fuse (Main and segment voltage) and diagnostics

IB IL 24 DI 4-ME - Digital module

2863928

<https://www.phoenixcontact.com/us/products/2863928>



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

ILC 2050 BI - Controller

2403160

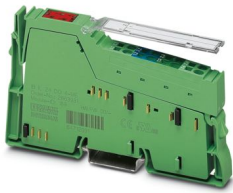
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IB IL 24 DO 4-ME - Digital module

2863931

<https://www.phoenixcontact.com/us/products/2863931>

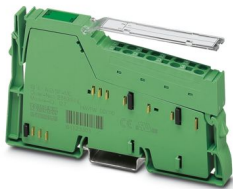


Inline, Digital output terminal, Digital outputs: 4, 24 V DC, connection technology: 3-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

IB IL AI 2/SF-ME - Analog module

2863944

<https://www.phoenixcontact.com/us/products/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 technology: 2-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

ILC 2050 BI - Controller

2403160

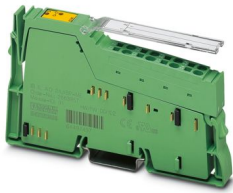
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IB IL AO 2/U/BP-ME - Analog module

2863957

<https://www.phoenixcontact.com/us/products/2863957>



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

IB IL AO 4/8/U/BP-PAC - Analog module

2878036

<https://www.phoenixcontact.com/us/products/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 technology: 2-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 DI 32/HD-NPN-PAC - Digital module

2878243

<https://www.phoenixcontact.com/us/products/2878243>



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

IB IL 24 DO 32/HD-NPN-PAC - Digital module

2878340

<https://www.phoenixcontact.com/us/products/2878340>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



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

2878971

<https://www.phoenixcontact.com/us/products/2878971>



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

IB IL DI 8/S0-PAC - Digital module

2897020

<https://www.phoenixcontact.com/us/products/2897020>



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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 DI 16-ME - Digital module

2897156

<https://www.phoenixcontact.com/us/products/2897156>



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

IB IL 24 DO 16-ME - Digital module

2897253

<https://www.phoenixcontact.com/us/products/2897253>



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

ILC 2050 BI - Controller

2403160

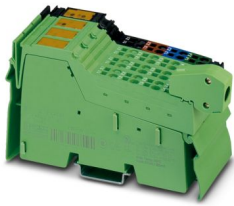
<https://www.phoenixcontact.com/us/products/2403160>



IB IL 24 LSKIP-PAC - Communication module

2897457

<https://www.phoenixcontact.com/us/products/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

IB IL 24/230 DOR4/HC-PAC - Relay Module

2897716

<https://www.phoenixcontact.com/us/products/2897716>



Inline, Relay terminal, Relay outputs: 4 (floating), N/O contact, 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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL DALI/PWR-PAC - Communication module

2897813

<https://www.phoenixcontact.com/us/products/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

IB IL DALI-PAC - Communication module

2897910

<https://www.phoenixcontact.com/us/products/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

ILC 2050 BI - Controller

2403160

<https://www.phoenixcontact.com/us/products/2403160>



IB IL AI/TEMP 4 RTD-PAC - Analog module

2897952

<https://www.phoenixcontact.com/us/products/2897952>

Inline, Analog input terminal, 0 V ... 10 V, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields



IB IL RTD 4/NTC-ECO - Temperature module

1185434

<https://www.phoenixcontact.com/us/products/1185434>

Inline, Temperature measurement terminal, Analog RTD inputs: 4 (NTC, linear resistors), connection technology: 2-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector



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