PHŒNIX CONTACT

Controller - ILC 2050 BI - 2403160

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The modular Inline controller for automation applications in infrastructure, energy, and buildings is based on the Niagara 4 framework. Four LAN, two USB, and two RS-485 interfaces are integrated. The controller can be extended with numerous Inline I/O modules.

Product Description

The ILC 2050 BI is a modular controller specifically for automation applications in infrastructure, energy, and buildings. It is characterized by its scalability and unlimited range of applications in hardware and software. Whether building automation, the development of new business models, controlling networked real estate, data centers or infrastructure management – the ILC 2050 BI controls it all.

Why buy this product

☑ 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 STK
GTIN	
GTIN	4055626260587
Weight per Piece (excluding packing)	311.300 g
Custom tariff number	85371091
Country of origin	Germany
Note	Made to Order (non-returnable)

Technical data

Dimensions

Width	80 mm
Height	119.8 mm
Depth	71.5 mm

Ambient conditions

Degree of protection	IP20

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Technical data

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
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 mean sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above mean 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 socket, 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
Protocols supported	BACnet/IP
	BACnet MS/TP only at COM1 and COM2
	Modbus/TCP
	Modbus/RTU

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Technical data

Data interfaces

	KNX IP
	SNMP
	oBIX
	DALI
	LON
	and many more

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

Fieldbus function

Number of supported devices	max. 63
Number of local bus devices that can be connected	max. 63 (observe current consumption)

General data

Processor	ARM® Cortex®-A8 1000 MHz
Operating systems	Linux
RAM	DDR3 SDRAM512 Mbyte

Environmental Product Compliance

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

Classifications

eCl@ss

eCl@ss 4.0	27250203
eCl@ss 4.1	27240601
eCl@ss 5.0	27242215
eCl@ss 5.1	27242207
eCl@ss 6.0	27242207
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

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Classifications

ETIM

ETIM 6.0	EC000236

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172018
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

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 - NC4-250-INIT - 2404203

Niagara 4 device license with 250 data points and initial one-year maintenance license

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

Maintenance license (1-year extension) for NC4-250 Niagara 4 device license

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

Maintenance license (3 years) for NC4-250 Niagara 4 device license

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

Maintenance license (5 years) for NC4-250 Niagara 4 device license

Building management system - NC4-500-INIT - 2404207

Niagara 4 device license with 500 data points and initial one-year maintenance license

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Accessories

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

Maintenance license (1-year extension) for NC4-500 Niagara 4 device license

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

Maintenance license (3 years) for NC4-500 Niagara 4 device license

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

Maintenance license (5 years) for NC4-500 Niagara 4 device license

Building management system - NC4-1250-INIT - 2404211

Niagara 4 device license with 1250 data points and initial one-year maintenance license

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

Maintenance license (1-year extension) for NC4-1250 Niagara 4 device license

Controller - ILC 2050 BI - 2403160

Accessories

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

Maintenance license (3 years) for NC4-1250 Niagara 4 device license

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

Maintenance license (5 years) for NC4-1250 Niagara 4 device license

Building management system - NC4-5000-INIT - 2404215

Niagara 4 device license with 5000 data points and initial one-year maintenance license

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

Maintenance license (1-year extension) for NC4-5000 Niagara 4 device license

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

Maintenance license (3 years) for NC4-5000 Niagara 4 device license

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Accessories

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

Maintenance license (5 years) for NC4-5000 Niagara 4 device license

Building management system - NC4-10000-INIT - 2404220

Niagara 4 device license with 10,000 data points and initial one-year maintenance license

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

Maintenance license (1-year extension) for NC4-10000 Niagara 4 device license

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

Maintenance license (3 years) for NC4-10000 Niagara 4 device license

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

Maintenance license (5 years) for NC4-10000 Niagara 4 device license

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Accessories

Building management system - POINTS-500 - 2404199

Niagara 4 device license for an additional 500 data points (with initial purchase of Niagara license)

Building management system - POINTS-1250 - 2404201

Niagara 4 device license for an additional 1250 data points (with initial purchase of Niagara license)

Building management system - POINTS-2500 - 2404202

Niagara 4 device license for an additional 2500 data points (with initial purchase of Niagara license)

Building management system - SUP-0-INIT - 2404174

Niagara 4 supervisor license without connectivity to an Embedded Niagara Framework Controller and initial maintenance license for one year

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

Maintenance license (1-year extension) for SUP-0 Niagara 4 supervisor license

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Accessories

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

Maintenance license (3 years) for SUP-0 Niagara 4 supervisor license

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

Maintenance license (5 years) for SUP-0 Niagara 4 supervisor license

Building management system - SUP-1-INIT - 2404178

Niagara 4 supervisor license with connectivity to one Embedded Niagara Framework Controller and initial maintenance license for one year

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

Maintenance license (1-year extension) for SUP-1 Niagara 4 supervisor license

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

Maintenance license (3 years) for SUP-1 Niagara 4 supervisor license

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Accessories

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

Maintenance license (5 years) for SUP-1 Niagara 4 supervisor license

Building management system - SUP-10-INIT - 2404182

Niagara 4 supervisor license with connectivity to up to 10 Embedded Niagara Framework Controllers and initial maintenance license for one year

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

Maintenance license (1-year extension) for SUP-10 Niagara 4 supervisor license

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

Maintenance license (3 years) for SUP-10 Niagara 4 supervisor license

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

Maintenance license (5 years) for SUP-10 Niagara 4 supervisor license

Controller - ILC 2050 BI - 2403160

Accessories

Building management system - SUP-100-INIT - 2404186

Niagara 4 supervisor license with connectivity to up to 100 Embedded Niagara Framework Controllers and initial maintenance license for one year

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

Maintenance license (1-year extension) for SUP-100 Niagara 4 supervisor license

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

Maintenance license (3 years) for SUP-100 Niagara 4 supervisor license

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

Maintenance license (5 years) for SUP-100 Niagara 4 supervisor license

Building management system - SUP-UNL-INIT - 2404190

Niagara 4 supervisor license with connectivity to any number of Embedded Niagara Framework Controllers and initial maintenance license for one year

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Accessories

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

Maintenance license (1-year extension) for SUP-UNL Niagara 4 supervisor license

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

Maintenance license (3 years) for SUP-UNL Niagara 4 supervisor license

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

Maintenance license (5 years) for SUP-UNL Niagara 4 supervisor license

Building management system - SUP-POINTS-500 - 2404159

Niagara 4 supervisor license for an additional 500 data points

Building management system - SUP-POINTS-1250 - 2404160

Niagara 4 supervisor license for an additional 1250 data points

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Accessories

Building management system - SUP-POINTS-2500 - 2404161

Niagara 4 supervisor license for an additional 2500 data points

Building management system - SUP-POINTS-5000 - 2404162

Niagara 4 supervisor license for an additional 5000 data points

Building management system - SUP-POINTS-10000 - 2404163

Niagara 4 supervisor license for an additional 10,000 data points

Building management system - SUP-UP-1 - 2404164

Niagara 4 supervisor license for connectivity to one Embedded Niagara Framework Controller

Building management system - SUP-UP-100 - 2404165

Niagara 4 supervisor license for connectivity to up to 100 Embedded Niagara Framework Controllers

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Accessories

Building management system - SUP-UP-UNL - 2404166

Niagara 4 supervisor license for connectivity to any number of Embedded Niagara Framework Controllers

Building management system - SUP-AX - 2404168

Niagara 4 supervisor license for downgrade to Niagara 3.8

Building management system - DR-OPC-CL - 2404514

Niagara 4 supervisor license for one OPC client

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

Niagara 4 supervisor license for CSV database

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

Niagara 4 supervisor license for MYSQL database

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Accessories

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

Niagara 4 supervisor license for Oracle 11g database

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

Niagara 4 supervisor license for SQL database driver

Building management system - OFFICE-DEMO-PC - 2404321

Niagara 4 demo license with unlimited functionality and 12-month runtime

Distance terminal

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

Inline distance terminal, complete with accessories

I/O component

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

Controller - ILC 2050 BI - 2403160

Accessories

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)

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

Controller - ILC 2050 BI - 2403160

Accessories

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

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

![Phoenix Contact logo]

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Accessories

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

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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

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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

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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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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

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Accessories

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

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

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Accessories

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 DO 4 AC-1A-PAC - 2861658

Inline, Digital output terminal, Digital outputs: 4, 230 V AC, 1 A, 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/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 output: 4 (floating contacts), 24 V DC / 230 V AC, 3 A, 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, 3 A, 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

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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, 2 A, 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

![Phoenix Contact logo]

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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 output: 4 (floating contacts), 24 V DC / 230 V AC, 10 A, high inrush current, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

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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, degree of protection: IP20, including Inline connectors and marking fields