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IndraLogic – open PLC systems for universal use

The powerful PLC systems from Bosch Rexroth set new benchmarks for automation with a consistent control, programming and communication design. Whether controller, embedded PC or industrial PC, the free selection of control platforms helps you solve all tasks quickly and efficiently.
With the latest PLC programming in accordance with the IEC-61131-3 standard and new language elements for object orientation, fully integrated in the engineering framework IndraWorks, you can implement your application with a single uniform software tool.

On various platforms, the capacity and functionality of IndraLogic can be customized precisely to centralized and distributed automation architectures:

Rexroth IndraLogic is the complete PLC solution for successful automation designs – efficient, scalable and standardized.

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IndraLogic XLC
With the latest PLC technology, the new PLC system IndraLogic XLC (eXtended Logic Control) offers verifiable user benefits for intelligent automation of production machines and systems. The IndraWorks software completely integrates all tools and shortens the engineering process chain.
Object-oriented language extensions in the programming increase the quality of the user programs through simplified modularization and accelerate creation of machine variants.

The openness and scalability of the IndraControl family are the basis for flexible, user-oriented solutions in distributed or centralized control topologies. sercos the automation bus is the high-performance backbone of all system peripherals. Fast I/O signal processing and highly dynamic motion control tasks can be implemented thanks to a user-oriented task setting of the powerful motion logic runtime system. Uniform system information and transparent diagnosis of the entire system minimize downtimes and noticeably increase productivity in the most varied applications and processes.

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Efficient, open, and standardized

- Consistent automation solution
- Comprehensive functions and numerous interfaces
- Uniform engineering and convenient operation

IndraLogic L/V

The PLC series IndraLogic L und IndraLogic V are available with a uniform runtime system and in various designs and performance classes.
IndraLogic L is based on the scalable control platform IndraControl L. Its compact design with modules enables easy assembly on hat rails, making it ideal for any automation environment. A consistent avoidance of wear parts, such as batteries and fans, helps the control to achieve the highest level of reliability while saving on maintenance. Whether you prefer a panel PC or separate PC and control unit – IndraLogic V gives you all the freedom needed to control and visualize your applications.

A tiered range of devices with an extremely robust industrial design in conjunction with the real-time operating systems VxWorks/VxWin or Microsoft Windows CE guarantee reliable use in the most varied applications.
The complete system engineering is intuitive, user-friendly, and uniform thanks to the engineering framework IndraWorks.

Your benefits:

- State-of-the-art control hardware with many extension options
- The latest PLC kernel IndraLogic 2G (based on CoDeSys V3)
- High-performance communication via sercos III real-time Ethernet for all peripherals
- Synchronized motion control function
- IndraWorks – one tool for all engineering tasks

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IndraLogic XLC – technical data

		IndraLogic XLC L25	IndraLogic XLC L45	IndraLogic XLC L65
Control				
Runtime system	Integrated motion logic system	●	●	●
Multitasking		●	●	●
Data management	Code, data, retentive data, user data	●	●	●
Storage	Boot project	●	●	●
	PLC project as packed archive file	●	●	●
	User data to the internal memory and a removable storage medium	●	●	●
Support	Function modules	2	4	4
	System events	●	●	●
Probe		●	●	●
User memory	Total: code, data	12 MB	24 MB	36 MB
Retentive memory	Total: system, user	256 kB	256 kB	256 kB
On-board diagnosis and settings				
Status display (boot, sercos, test)	Display	●	●	●
Errors, warnings, messages, system reset		●	●	●
Ethernet settings (IP address)		●	●	●
Voltage monitoring, watchdog		●	●	●
Relay output ready for operation		●	●	●
IndraMotion Service Tool		○	○	○
On-board communication interfaces				
sercos III	Real-time Ethernet bus	○	○	○
PROFIBUS	Master	○	●	●
	Slave	○	●	●
PROFINET IO	Controller (master)	○	○	○
	Device (slave)	○	○	○
EtherNet/IP	Scanner (master)	▼	▼	▼
	Adapter (slave)	○	○	○
Ethernet TCP/IP		●	●	●
Control grouping	Ethernet TCP/UDP/IP	●	●	●
Function modules				
Number		2	4	4
Real-time Ethernet/PROFIBUS		○	○	○
Programmable limit switches		○	○	○
Fast I/O		○	○	○

● Default ▼ In preparation ○ Optional – Not available

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		IndraLogic XLC L25	IndraLogic XLC L45	IndraLogic XLC L65
HMI				
IndraControl VCP, VCH	Ethernet TCP/IP, OPC	o	o	o
IndraControl VEP, VEH	Ethernet TCP/IP, OPC	o	o	o
IndraControl VSP, VPP, VSB/VDP, VPB/VDP	Ethernet TCP/IP, OPC	o	o	o
Inputs/outputs				
On-board				
High-speed digital inputs	Interrupt capability, typ. 50 µs	–	8	8
High-speed digital outputs	0.5 A, typ. 500 µs	–	8	8
Local				
High-speed digital inputs (FAST I/O function module)	Interrupt capability, typ. 40 µs	o	o	o
High-speed digital outputs (FAST I/O function module)	0.5 A, typ. 70 µs	o	o	o
Inline (digital, analog, relay, technology)	64 bytes, max. 512 I/O	o	o	o
Distributed via Inline (IP20)				
sercos III	On-board/function module	o	o	o
PROFIBUS	On-board/function module	o	o	o
Distributed via Fieldline (IP67)				
PROFIBUS	On-board/function module	o	o	o
Distributed via IndraControl S67 (IP67)				
sercos III	On-board/function module	o	o	o
PROFIBUS	On-board/function module	o	o	o
Logic control				
PLC runtime system				
IndraLogic 2G kernel	Conforming with IEC 61131-3 with extensions	●	●	●
Program organization	According to IEC 61131-3	●	●	●
Loading and executing IEC-61131-3 applications		●	●	●
Task management				
Freely configurable tasks (priority 0-20)	Cyclic, free-running, event-controlled, externally event-controlled	8	8	8
Cycle-synchronous processing of the I/O process image		●	●	●
sercos III-synchronous processing of the I/O process image		●	●	●
Min. PLC cycle time	Synchronous to the system cycle	1 ms	1 ms	1 ms
	Synchronous to the sercos cycle	1 ms	0.5 ms	0.25 ms
Min. motion cycle time	Command value generator	2 ms	1 ms	1 ms

● Default ▼ In preparation o Optional – Not available

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IndraLogic XLC – technical data

		IndraLogic XLC L25	IndraLogic XLC L45	IndraLogic XLC L65
PLC processing times				
Typical processing time for 1,000 instructions	Command mix (real, integer, bool, etc.)	35 µs	30 µs	5 µs
	Bool operations	20 µs	30 µs	5 µs
	Word operations	20 µs	30 µs	5 µs
Motion control				
Number of axes	Real, virtual, encoder	16	32	64
Synchronization (ELS – electronic line shaft)	Real axes (servo drives)	●	●	●
	Virtual axes (virtual masters)	●	●	●
	Encoder axes (real masters)	●	●	●
	Dynamic synchronization	●	●	●
	Master axis cascading	●	●	●
Positioning	Single-axis	●	●	●
Electronic gears		●	●	●
Electronic cams	Intermediate point tables (in the drive, max. 1,024 intermediate points)	4	4	4
	Electronic motion profile (in the control, motion profiles with max. 16 segments)	2	2	2
	FlexProfile (in the control, master/time-based motion profiles with max. 16 segments)	4	4	4
Motion commands according to PLCopen (choice)	MC_MoveAbsolute	●	●	●
	MC_MoveRelative	●	●	●
	MC_MoveVelocity	●	●	●
	MC_Home	●	●	●
	MC_CamIn, MC_CamOut	●	●	●
	MC_GearIn, MC_GearOut	●	●	●
Extended motion commands (choice)	MB_ReadListParameter	●	●	●
	MB_WriteListParameter	●	●	●
	MB_GearInPos	●	●	●
	MB_PhasingSlave	●	●	●
	MB_ClearAxisError	●	●	●
	MB_ClearSystemError	●	●	●
Extended system functions (choice)				
Programmable limit switches		●	●	●
PID controller		●	●	●
Temperature controller		●	●	●

● Default ▼ In preparation ○ Optional – Not available

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		IndraLogic XLC L25	IndraLogic XLC L45	IndraLogic XLC L65
Diagnosis				
Diagnosis (status, warnings, errors)	Function blocks (software)	●	●	●
	Parameter access to diagnosis memory (software)	●	●	●
	Locally via display (control hardware)	●	●	●
	Axis monitoring (e.g. capacity, encoders, limit values)	●	●	●
	Diagnosis memory (64 kB, max. 999 messages)	●	●	●
Debugging monitor for IEC applications		●	●	●
Drive systems				
IndraDrive		●	●	●
IndraDrive Cs		●	●	●
EcoDrive Cs		●	●	●
sercos Pack Profile		●	●	●
Master communication	sercos III	●	●	●
Engineering and operation				
IndraWorks		o	o	o
IndraMotion Service Tool		o	o	o

● Default ▼ In preparation o Optional – Not available

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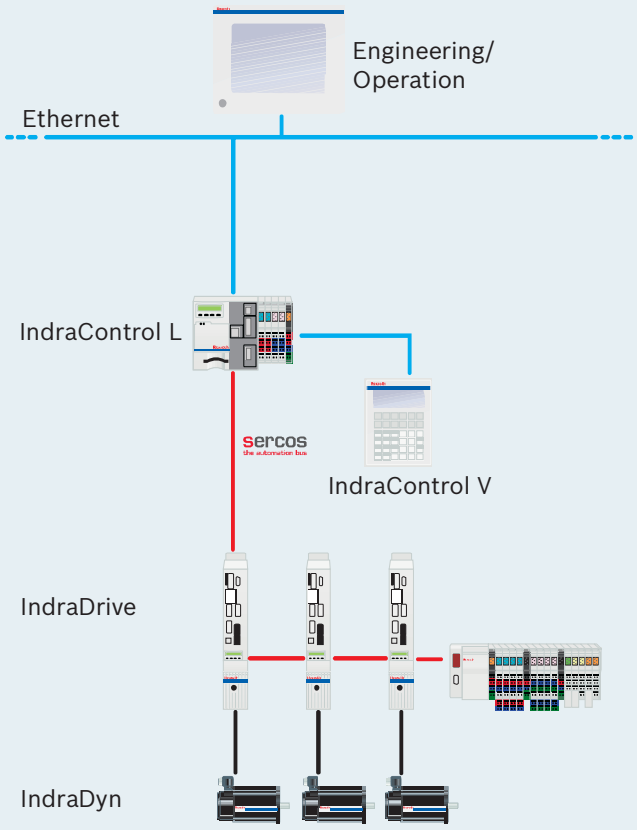
IndraLogic XLC – system configuration

Example configuration



System configuration		
Software		**Page(s)**
Engineering framework	IndraWorks	60 – 79
Control components		
Control hardware	IndraControl L25, IndraControl L45, IndraControl L65	122 – 139
HMI/PC technology		
Manual operator panel	IndraControl VxH	90f/98f
Compact operator panel	IndraControl VCP	84 – 89
Embedded PC	IndraControl VEP	92 – 97
Panel PC	IndraControl VPP	100 – 103
I/O modules		
Local and distributed input/output modules in IP20	Inline	140 – 175
Distributed input/output modules in IP67	IndraControl S67	188 – 201

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IndraLogic XLC – ordering data

Ordering data for firmware	
Description	**Type code**
Firmware for IndraControl L25	FWA-CML25*-XLC-xxVRS-D0
Firmware for IndraControl L45	FWA-CML45*-XLC-xxVRS-D0
Firmware for IndraControl L65	FWA-CML65*-XLC-xxVRS-D0
Ordering data for software and software options	
Description	**Type code**
Software DVD, Engineering framework IndraWorks	SWA-IWORKS-ML*-xxVRS-D0-DVD**
Single license, IndraWorks Engineering	SWL-IWORKS-XLC-xxVRS-D0-ENG
Multiple license (25), IndraWorks Engineering	SWL-IWORKS-XLC-xxVRS-D0-ENG*M25
Single license, IndraWorks TeamServer (VCS)	SWL-IWORKS-ML*-xxVRS-D0-TEAMSERVER
Single license, IndraWorks Communication (OPC server)	SWL-IWORKS-ML*-xxVRS-D0-COM
Multiple license (25), IndraWorks Communication (OPC server)	SWL-IWORKS-ML*-xxVRS-D0-COM*M25
Single license, IndraWorks Operation	SWL-IWORKS-ML*-xxVRS-D0-OPD
Multiple license (25), IndraWorks Operation	SWL-IWORKS-ML*-xxVRS-D0-OPD*M25
Single license, IndraWorks CamBuilder	SWS-IWORKS-CAM-xxVRS-D0
Multiple license (25), IndraWorks CamBuilder	SWS-IWORKS-CAM-xxVRS-D0-M25
Single license, IndraWorks TeamClient (VCS)	SWS-IWORKS-VCS-xxVRS-D0
Multiple license (10), IndraWorks TeamClient (VCS)	SWS-IWORKS-VCS-xxVRS-D0-M10
Multiple license (25), IndraWorks TeamClient (VCS)	SWS-IWORKS-VCS-xxVRS-D0-M25
Ordering data for hardware	
Description	**Type code**
Control hardware IndraControl L25 with sercos III	CML25.1-3N-400-NN-NNC1-NW
Control hardware IndraControl L25 with PROFIBUS and real-time Ethernet	CML25.1-PN-400-NN-NNC1-NW
Control hardware IndraControl L45 with sercos III, PROFIBUS and real-time Ethernet	CML45.1-3P-500-NA-NNNN-NW
Control hardware IndraControl L45 with PROFIBUS and real-time Ethernet	CML45.1-NP-500-NA-NNNN-NW
Control hardware IndraControl L65 with sercos III, PROFIBUS and real-time Ethernet	CML65.1-3P-500-NA-NNNN-NW
Control hardware IndraControl L65 with PROFIBUS and real-time Ethernet	CML65.1-NP-500-NA-NNNN-NW
IndraControl L function module, real-time Ethernet + PROFIBUS	CFL01.1-TP
IndraControl L function module, programmable limit switches	CFL01.1-N1
IndraControl L function module, Fast I/O	CFL01.1-E2

Current documentation can be found in the Internet at www.boschrexroth.com/mediadirectory.

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IndraLogic L – technical data

		IndraLogic L10	IndraLogic L20	IndraLogic L40
Control				
Runtime system	Conforming with IEC 61131-3	●	●	●
Multitasking		●	●	●
Data management	Code, data, retentive data, user data	●	●	●
Storage	Boot project	●	●	●
	PLC project as packed archive file	●	●	●
	User data to the internal memory and a removable storage medium	●	●	●
Support	Function modules	–	–	4
Support	System events	●	●	●
User memory	Total: code, data	4 MB	3 MB	24 MB
Retentive memory	Total: system, user	32 kB	64 kB	128 kB
On-board diagnosis and settings				
Status display (boot, sercos, test)	Display/LED	–/●	●/–	●/–
Errors, warnings, messages, system reset	Display, keys/LEDs	–/●	●/–	●/–
Ethernet settings (IP address)	Display, keys/LEDs	–/●	●/–	●/–
Voltage monitoring, watchdog		●	●	●
Relay output ready for operation		●	●	●
On-board communication interfaces				
PROFIBUS	Master	–	●	●
	Slave	–	●	●
EtherNet/IP	Adapter (slave)	●	●	●
Ethernet TCP/IP		●	●	●
Control link	Ethernet TCP/UDP/IP	●	●	●
RS232		–	●	●
Function modules				
Number		–	–	4
PROFIBUS master		–	–	o
DeviceNet master		–	–	o
Fast I/O		–	–	o
HMI				
IndraControl VCP, VCH	Ethernet TCP/IP, OPC	o	o	o
IndraControl VEP, VEH	Ethernet TCP/IP, OPC	o	o	o
IndraControl VSP, VPP, VSB/VDP, VPB/VDP	Ethernet TCP/IP, OPC	o	o	o
Inputs/outputs				
On-board				
High-speed digital inputs	Interrupt capability, typ. 50 µs	8	8	8
High-speed digital outputs	0.5 A, typ. 500 µs	4	8	8
Local				
High-speed digital inputs (function module FAST I/O)	Interrupt capability, typ. 40 µs	–	–	o
High-speed digital outputs (function module FAST I/O)	0.5 A, typ. 70 µs	–	–	o

● Default ▼ In preparation o Optional – Not available

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		IndraLogic L10	IndraLogic L20	IndraLogic L40
Inputs/outputs				
Local				
Inline (digital, analog, relay, technology)	32 bytes, max. 256 I/O	o	o	–
Inline (digital, analog, relay, technology)	64 bytes, max. 512 I/O	–	–	o
Distributed via Inline (IP20)				
PROFIBUS	On-board/function module	–	●/–	●/o
DeviceNet	Function module	–	–	o
Distributed via Fieldline (IP67)				
PROFIBUS	On-board/function module	–	●/–	o
DeviceNet	Function module	–	–	o
Distributed via IndraControl S67 (IP67)				
PROFIBUS	On-board/function module	o/o	●/–	●/o
DeviceNet	On-board/function module	–	–	–/o
Logic control				
PLC runtime system				
IndraLogic 1G kernel	Conforming with IEC 61131-3	●	●	●
Program organization	According to IEC 61131-3	●	●	●
Loading and executing IEC-61131-3 applications		●	●	●
Motion control functions via PLCopen function modules		–	●	●
Task management				
Freely configurable tasks (priority 0-31)	Cyclic, free-running, event-controlled, externally event-controlled	8	8	16
Cycle-synchronous processing of the I/O process image		●	●	●
Min. PLC cycle time	Synchronous to the system cycle	1 ms	1 ms	1 ms
PLC processing times				
Typical processing time for 1,000 instructions	Command mix (real, integer, bool, etc.)	150 µs	150 µs	50 µs
	Bool operations	150 µs	140 µs	50 µs
	Word operations	150 µs	140 µs	30 µs
Extended system functions (choice)				
PID control		●	●	●
Temperature control		●	●	●
Diagnosis				
Diagnosis (status, warnings, errors)	Function blocks (software)	●	●	●
	Locally via display (control hardware)	–	●	●
	Diagnosis memory (64 kB, max. 999 messages)	●	●	●
Debugging monitor for IEC applications		●	●	●
Engineering and operation				
IndraWorks		o	o	o
Compatible with all IndraLogic systems		●	●	●

● Default ▼ In preparation o Optional – Not available

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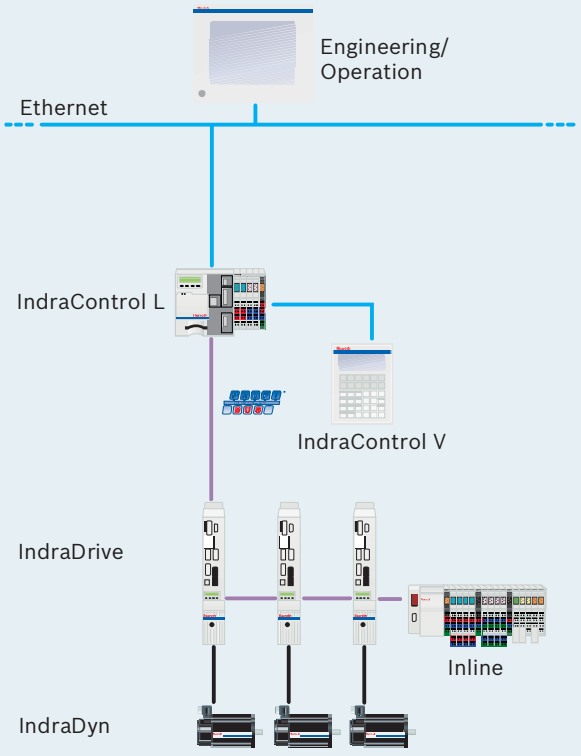
IndraLogic L – system configuration

Example configuration



System configuration		
Software		**Page(s)**
Engineering framework	IndraWorks	60 – 79
Control components		
Control hardware	IndraControl L10, IndraControl L20, IndraControl L40	122 – 139
HMI/PC technology		
Manual operator panel	IndraControl VxH	90, 98
Compact operator panel	IndraControl VCP	84 – 89
Embedded PC	IndraControl VEP	92 – 97
Keyboards	IndraControl VAK	115 – 116
Control panels	IndraControl VAM	117 – 119
Box PC/displays	IndraControl VPB and VDP	104 – 114
Panel PC	IndraControl VPP	100 – 103
I/O modules		
Local and distributed input/output modules in IP20	Inline	140 – 175
Distributed input/output modules in IP67	IndraControl S67	188 – 201

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IndraLogic L – ordering data

Ordering data for firmware	
Description	**Type code**
Firmware for IndraControl L10	FWA-CML10*-IL*-xxVRS-D0
Firmware for IndraControl L20	FWA-CML20*-IL*-xxVRS-D0
Firmware for IndraControl L20 for IndraMotion for Handling	FWA-CML20*-IL*-xxVRS-D0*T01
Firmware for IndraControl L40	FWA-CML40*-IL*-xxVRS-D0
Firmware for IndraControl L40 for IndraMotion for Handling	FWA-CML40*-IL*-xxVRS-D0*T01
Ordering data for software and software options	
Description	**Type code**
Software DVD, Engineering framework IndraWorks	SWA-IWORKS-ML*-xxVRS-D0-DVD**
Single license, IndraWorks Engineering	SWL-IWORKS-XLC-xxVRS-D0-ENG
Multiple license (25), IndraWorks Engineering	SWL-IWORKS-XLC-xxVRS-D0-ENG*M25
Single license, IndraWorks Communication (OPC server)	SWL-IWORKS-ML*-xxVRS-D0-COM
Multiple license (25), IndraWorks Communication (OPC server)	SWL-IWORKS-ML*-xxVRS-D0-COM*M25
Single license, IndraWorks Operation	SWL-IWORKS-ML*-xxVRS-D0-OPD
Multiple license (25), IndraWorks Operation	SWL-IWORKS-ML*-xxVRS-D0-OPD*M25
Software CD, Technology functions for IndraMotion for Handling	SWA-IM*ML*-LHA-xxVRS-D0-CD650-COPY
Ordering data for hardware	
Description	**Type code**
Control hardware IndraControl L10	CML10.1-NN-210-NB-NNNN-NW
Control hardware IndraControl L20	CML20.1-NP-120-NA-NNNN-NW
Control hardware IndraControl L40 with PROFIBUS	CML45.1-3P-500-NA-NNNN-NW
IndraControl L function module PROFIBUS master	CFL01.1-P1
IndraControl L function module DeviceNet master	CFL01.1-V1
IndraControl L function module Fast I/O	CFL01.1-E2

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IndraLogic V – technical data

		IndraLogic VE	IndraLogic VS	IndraLogic VP
Control				
Runtime system	Conforming with IEC 61131-3	●	●	●
Multitasking		●	●	●
Data management	Code, data, retentive data, user data	●	●	●
Storage	Boot project	●	●	●
	PLC project as packed archive file	●	●	●
	User data to the internal memory and a removable storage medium	●	●	●
Support	System events	●	●	●
User memory	Total: code, data	24 MB	48 MB	48 MB
Retentive memory	Total: system, user	256 kB	2 MB	2 MB
On-board diagnosis and settings				
Status display (boot, sercos, test)	SoftPanel	●	●	●
Errors, warnings, messages, system reset	SoftPanel	●	●	●
Ethernet settings (IP address)	SoftPanel	●	●	●
Voltage monitoring, watchdog		●	●	●
On-board communication interfaces				
PROFIBUS	Master	●	●	●
Ethernet TCP/IP		●	●	●
Control link	Ethernet TCP/UDP/IP	●	●	●
HMI				
IndraControl VCP, VCH	Ethernet TCP/IP, OPC	○	○	○
IndraControl VEP, VEH	Ethernet TCP/IP, OPC	●	○	○
IndraControl VSP, VPP, VSB/VDP, VPB/VDP	Ethernet TCP/IP, OPC	○	●	●
Inputs/outputs				
Distributed via Inline (IP20)				
PROFIBUS	On-board	○	○	○
Distributed via Fieldline (IP67)				
PROFIBUS	On-board	○	○	○
Distributed via IndraControl S67 (IP67)				
PROFIBUS	On-board	○	○	○
Logic control				
PLC runtime system				
IndraLogic 1G kernel	Conforming with IEC 61131-3	●	●	●
Program organization	According to IEC 61131-3	●	●	●
Loading and executing IEC-61131-3 applications		●	●	●
Motion control functions via PLCopen function blocks		●	●	●

● Default ▼ In preparation ○ Optional – Not available

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		IndraLogic VE	IndraLogic VS	IndraLogic VP
Logic control				
Task management				
Freely configurable tasks (priority 0-31)	Cyclic, free-running, event-controlled, externally event-controlled	16	32	32
Cycle-synchronous processing of the I/O process image		●	●	●
Min. PLC cycle time	Synchronous with the system cycle	1 ms	1 ms	1 ms
PLC processing times				
Typical processing time for 1,000 instructions	Command mix (real, integer, bool, etc.)	15 µs	10 µs	5 µs
	Bool operations	10 µs	10 µs	5 µs
	Word operations	20 µs	10 µs	5 µs
Extended system functions (choice)				
PID controller		●	●	●
Temperature controller		●	●	●
Diagnosis				
Diagnosis (status, warnings, errors)	Function blocks (software)	●	●	●
	SoftPanel	●	●	●
	Diagnosis memory (64 kB, max. 999 messages)	●	●	●
Debugging monitor for IEC applications		●	●	●
Engineering and operation		●	●	●
IndraWorks		o	o	o
Compatibility with all IndraLogic V systems		●	●	●

● Default ▼ In preparation o Optional – Not available

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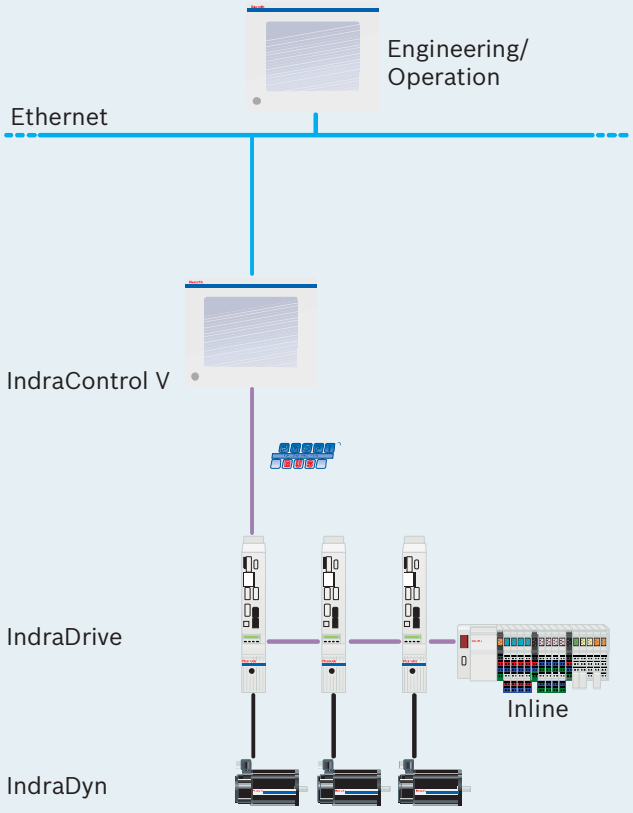
IndraLogic V – system configuration

Example configuration



System configuration		
Software		**Page(s)**
Engineering framework	IndraWorks	60 – 79
Control components		
Embedded PC	IndraControl VEP	92 – 97
Box PC/displays	IndraControl VPB and VDP	104 – 114
I/O modules		
Local and distributed input/output modules in IP20	Inline	140 – 175
Distributed input/output modules in IP67	IndraControl S67	188 – 201

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IndraLogic V – ordering data

Ordering data for firmware	
Description	**Type code**
Runtime license IndraLogic VE	SWL-VE**01-ILC-04VRS-NN-0024
Runtime license IndraLogic VE for IndraMotion for Handling	SWL-VE**01-ILC-04VRS-NN-0024-T01
Firmware for IndraLogic VS/VP	FWA-VSXVPX-IL*-04VRS-D0-0048
Ordering data for software and software options	
Description	**Type code**
Software DVD, Engineering framework IndraWorks	SWA-IWORKS-ML*-xxVRS-D0-DVD**
Single license, IndraWorks Engineering	SWL-IWORKS-XLC-xxVRS-D0-ENG
Multiple license (25), IndraWorks Engineering	SWL-IWORKS-XLC-xxVRS-D0-ENG*M25
Single license, IndraWorks Communication (OPC server)	SWL-IWORKS-ML*-xxVRS-D0-COM
Multiple license (25), IndraWorks Communication (OPC server)	SWL-IWORKS-ML*-xxVRS-D0-COM*M25
Single license, IndraWorks Operation	SWL-IWORKS-ML*-xxVRS-D0-OPD
Multiple license (25), IndraWorks Operation	SWL-IWORKS-ML*-xxVRS-D0-OPD*M25
Software CD, Technology functions for IndraMotion for Handling	SWA-IM*ML*-LHA-xxVRS-D0-CD650-COPY
Ordering data for hardware	
Description	**Type code**
IndraControl VEP 30, PROFIBUS, control components	VEP30.3CCU-256NA-MAD-128-NN-FW
IndraControl VEP 30 CG, PROFIBUS, control components	VEP30.3DKU-256NA-MAD-128-CG-FW
IndraControl VEP 40, PROFIBUS, control components	VEP40.3CEU-256NA-MAD-128-NN-FW
IndraControl VEP 50, PROFIBUS, control components	VEP50.3CHU-256NA-MAD-128-NN-FW
IndraControl VS/VP	For detailed type codes, see pp. 100–107

Current documentation can be found in the Internet at www.boschrexroth.com/mediadirectory.

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