

Control units

Single-axis ADVANCED



Control units

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ADVANCED control units meet the highest demands in performance and dynamics.

In addition to top performance, they support a wide and diverse range of control communication and encoder interfaces. Digital and analog inputs and outputs are already permanently integrated for communication with higher level control systems. These can also be expanded by digital or analog I/O extensions or by encoder emulation outputs. This high-performance control unit can be optionally equipped with safety technology certified as conforming to EN 13849-1 Cat. 3 PL d and EN 62061 SIL 2. The ADVANCED control unit is the ideal platform for the drive-integrated PLC, IndraMotion MLD. All that is required to start up the drive is a PC and the IndraWorks engineering framework from Rexroth.

Technical data

IndraDrive control units		
Master communication		
Analog interface		<input type="radio"/>
Parallel interface		<input type="radio"/>
PROFIBUS		<input type="radio"/>
sercos II		<input type="radio"/>
sercos III		<input type="radio"/>
Multi-Ethernet		<input type="radio"/>
CANopen		<input type="radio"/>
DeviceNet		<input type="radio"/>
Configurations		
Option 1	Encoder interface	<input checked="" type="radio"/>
Option 2	Additional Interface 1	<input checked="" type="radio"/>
Option 3	Additional Interface 2	<input checked="" type="radio"/>
Safety option		<input checked="" type="radio"/>
Slot for MultiMediaCard		<input checked="" type="radio"/>
Encoder interfaces		
IndraDyn motors MSK, MKE, MAD and MAF, Hiperface®, 1 Vpp and 5 V TTL		<input type="radio"/>
MHD and MKD motors		<input type="radio"/>
EnDat 2.1, 1 Vpp and 5 V TTL		<input type="radio"/>
Safety options compliant with EN 13849-1 und EN 62061		
Safe Torque Off (Cat. 3 PL e/SIL 3)		<input type="radio"/>
Safe Motion (Cat. 3 PL d/SIL 2)		<input type="radio"/>

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Extensions		
Encoder emulation		<input type="radio"/>
Analog in-/outputs (extension)		<input type="radio"/>
Digital in-/outputs (extension)		<input type="radio"/>
Digital in-/outputs with SSI interface (extensions)		<input type="radio"/>
Cross-Communication		<input type="radio"/>
Software module		
MultiMediaCard		<input type="radio"/>
Control panel		
Standard		<input checked="" type="radio"/>
Cycle times		
Current control	[μ s]	62.5
Velocity control	[μ s]	125
Position control	[μ s]	250
PWM frequency		
4 kHz		<input checked="" type="radio"/>
8 kHz		<input checked="" type="radio"/>
12 kHz		<input checked="" type="radio"/>
16 kHz		<input checked="" type="radio"/>
Inputs/outputs		
Digital inputs		7
Digital inputs utilizable for touch probes		2
Digital inputs/outputs (any adjustments)		4
Analog inputs		1
Analog outputs		2
Relay outputs		1
Interfaces		
RS232		<input checked="" type="radio"/>
Control voltage data		
Control voltage		24 V DC
Power consumption without options	[W]	6

- Basic configuration
- Optional

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The data specified above only serve to describe the product. As our products are constantly being further developed, no statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification.

It must be remembered that our products are subject to a natural process of wear and aging.