

Control units

Double-axis BASIC UNIVERSAL



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Many drives and limited installation space – these are typical requirements that can be met competently and economically with the BASIC UNIVERSAL double-axis control unit. With the BASIC UNIVERSAL double-axis, we have implemented all the functionality for two digital axes particularly compactly in a single control unit. The benefit for you is that, even if there are severe space constraints, you can integrate a number of drives, thus minimizing your control cabinet footprint. With certified safety technology conforming to EN 13849-1 Cat. 3 PL d and EN 62061 SIL 2, you are providing effective protection for both the machine and operator. We have also integrated a number of different safety functions, such as “Safe Torque Off” and “Safe Motion”, directly in the drive. This increases reliability while saving on monitoring components and minimizing installation work.

In terms of control communication you can choose between SERCOS 2, PROFIBUS, SERCOS III and Multi-Ethernet (SERCOS III, PROFINET IO, EtherNet/IP, EtherCat). In the interests of meeting the specific demands of your individual application, IndraDrive offers additional options for the connection of various encoder systems, the connection of an analog I/O extension or for the output of emulated encoder signals. The double-axis control unit offers the ability of storing the axis-oriented drive parameters of both axes on the optional MultiMediaCard. For an easy start-up use a PC with the Rexroth IndraWorks engineering framework.

Technical data

IndraDrive control units		
Master communication		
PROFIBUS		<input type="radio"/>
sercos II		<input type="radio"/>
sercos III		<input type="radio"/>
Multi-Ethernet		<input type="radio"/>
Configurations		
Option 1	Encoder interface	<input checked="" type="radio"/>
Option 2	Additional Interface 1	<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"/>
Extensions		
Encoder emulation		<input type="radio"/>

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Analog in-/outputs (extension)		○
Software module		
MultiMediaCard		○
Control panel		
Standard		●
Cycle times		
Current control	[μ s]	125
Velocity control	[μ s]	250
Position control	[μ s]	500
PWM frequency		
4 kHz		●
Inputs/outputs		
Digital inputs		18
Digital inputs utilizable for touch probes		2
Digital inputs/outputs (any adjustments)		4
Analog inputs		1
Analog outputs		2
Relay outputs		1
Interfaces		
RS232		●
Control voltage data		
Control voltage		24 V DC
Power consumption without options	[W]	7.5

- 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.