

Control units

# Double-axis BASIC UNIVERSAL



Control units

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Many axes 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 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. Indeed, we have 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 emission 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		
SERCOS 2		
SERCOS III		
Multi-Ethernet		
Configurations		
Option 1	Encoder interface	●
Option 2	Additional Interface 1	●
Safety option		●
Slot for MultiMediaCard		●
Encoder interfaces		
IndraDyn motors MSK, MKE, MAD and MAF, Hiperface®, 1 Vpp and 5 V TTL		
MHD and MKD motors		
EnDat 2.1, 1 Vpp and 5 V TTL		
Safety options compliant with EN 13849-1 und EN 62061		
Safe Torque Off (Cat. 3 PL e/SIL 3)		
Safe Motion (Cat. 3 PL d/SIL 2)		
Expansions		
Encoder emulation		

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Analog in-/outputs (extension)		
<b>Software module</b>		
MultiMediaCard		
<b>Operation panel</b>		
Standard ●		
<b>Cycle times</b>		
Current control	[ $\mu$ s]	125
Velocity control	[ $\mu$ s]	250
Position control	[ $\mu$ s]	500
<b>PWM frequency</b>		
4 kHz ●		
<b>Inputs/outputs</b>		
Digital inputs		18
Digital inputs utilizable for touch probes		2
Digital inputs/outputs (user-defined settings)		4
Analog inputs		1
Analog outputs		2
Relay outputs		1
<b>Interfaces</b>		
RS232 ●		
<b>Control voltage data</b>		
Control Voltage		24 VDC
Power consumption without options	[W]	7.5

- Basic configuration
- Option

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