

Multi-axis controller V26



The multi-axis controller V26 is a robust controller used commonly in electro-hydraulic applications.
With many output options including voltage, amperage and switching contacts and many handle options the V26 series is hugely customisable.

Technical data

Mechanical life V26	10 million operating cycles
Supply voltage	See interface
Operation temperature	-40°C to +60°C
Degree of protection	IP22



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	V26	T	- R	+ R	- B	- E...	-S...	- X
Basic unit								
V26 2-axis								
Grip / palm grip								
Knob <i>(included in basic unit!)</i>								
T Dead man								
H Signal button								
D Push button								
B... Palm grip B... <i>(see page palm grip 147)</i>								
Axis 1								
R Friction brake								
Axis 2								
R Friction brake								
Cover housing								
B Cover housing <i>(included in basic unit!)</i>								
Interface <i>(description see on the following pages)</i>								
E0xx Switching output								
E1xx Voltage output								
E2xx Current output								
E3xx CAN-interface								
E4xx CANOpen safety interface								
Plug connectors								
S.. Standard plug connectors <i>(see page 129)</i>								
Special model								
X Special / customer specified								

Multi-axis controller V26

Digital output

Supply voltage	9-32V DC
Current carrying capacity	Direction signal 150mA Zero position signal 500mA
Mounting depth A	105mm
Wiring	Cable 500mm long without plug connector Optional with plug connector (<i>standard plug connectors see page 129</i>)
2 direction signals + 1 zero position signal (galvanically isolated) per axis	
2 axis	
E002 2	
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Voltage output (not stabilized)

Supply voltage	4,75-5,25V DC
Current carrying capacity	Direction signal 8mA
Mounting depth A	105mm
Wiring	Cable 500mm long without plug connector Optional with plug connector (<i>standard plug connectors see page 129</i>)
0,5...2,5...4,5V redundant per axis	
2 Achsen	
E103 2	
Output options	
Characteristic:	
Inverse dual	1
Dual	2
Inverse dual with dead zone +/- 3°	3
Dual with dead zone +/- 3°	4

Voltage output

Supply voltage	9-32V DC (*11,5-32)
Current carrying capacity	Direction signal 150mA Zero position signal 500mA
Mounting depth A	105mm
Wiring	Cable 500mm long without plug connector Optional with plug connector (<i>standard plug connectors see page 129</i>)
0,5...2,5...4,5V redundant per axis	
2 axis	
E111 2	
0...5...10V redundant per axis, supply voltage 11,5 - 32V DC	
2 axis	
E131 2	
Output options	
Characteristic:	
Inverse dual	1
Dual	2
Inverse dual with dead zone +/- 3°	3
Dual with dead zone +/- 3°	4
Voltage output with other value on request!	

Current output

Supply voltage	9-32V DC			
Current carrying capacity	Direction signal 150mA Zero position signal 500mA			
Mounting depth A	105mm			
Wiring	Cable 500mm long without plug connector Optional with plug connector (standard plug connectors see page 129)			S
0...10...20mA per axis, sensor redundant with error monitoring and error signal	2 axis	E203 2		
4...12...20mA per axis, sensor redundant with error monitoring and error signal	2 axis	E211 2		
Output options				
	Single		5	
	Single with dead zone +/- 3°		6	
Current output with other value on request!				

CAN

Supply voltage	9-36V DC			
Idle current consumption	120mA			
Current carrying capacity	Direction signal 100mA Zero position signal 100mA External digital output for LEDs 5-30mA (dependent on the number of LEDs) Digital switching output (potential-free) 100mA			
Mounting depth A	E3091: 105mm E3091X: 130mm E3101X - E3103X: 130mm E3104X - E3105X: 160mm			
Protocol	CANOpen CiA DS 301 or SAE J 1939			
Baud rate	125kBit/s to 1Mbit/s (standard 250 kBit/s)			
Output value	255...0...255			
Wiring	CAN (IN) cable 300mm with plug connector M12 (male) CAN (OUT) cable 300mm with plug connector M12 (female) External in-/outputs cable 300mm without plug connector External in-/outputs cable 300mm without plug connector (additionally from 32 in-/outputs) Optional with plug connector (standard plug connectors see page 129)			
CAN expansion stage 1	- 7 analoge Joystickachsen - 16 digitale Joystickfunktionen - Input for capacitive sensor	E309	1	
With additional external in-/outputs	- 8 external LED-outputs (dimmbable), 1 switching output (potential-free, 100mA), 8 external digital inputs - 16 external LED-outputs (dimmbable), 1 switching output (potential-free, 100mA), 16* external digital inputs		2	
			3	
External LED-outputs can be used in the grip for LEDs				
*With the use of capacitive sensor, the external digital inputs reduce by one input!				

CANopen Safety

Supply voltage	9-36V DC
Idle current consumption	120mA
Current carrying capacity	Direction signal 100mA Zero position signal 100mA External digital output for LEDs 5-30mA (depending on the number of LED`s) Digital switching output (potential-free) 100mA
Mounting depth A	E4091: 105mm E4091X: 130mm E4101X - E4103X: 130mm E4104X - E4105X: 160mm
Protocol	CAN Safety CIA 304
Baud rate	125kBit/s to 1MBit/s (Standard 250 kBits)
Output value	255...0...255
Wiring	CAN (IN) cable 300mm with plug connector M12 (male) CAN (OUT) cable 300mm with plug connector M12 (female) External in-/outputs cable 300mm without plug connector External in-/outputs cable 300mm without plug connector (additionally from 32 in-/outputs)
Optional with plug connector (standard plug connectors see page 129)	

CANopen safety expansion stage 1

- 7 analog joystick axis
- 16 digital joystick functions
- Input for capacitive sensor

With additional external in-/outputs

- 8 external LED-outputs (dimnable), 1 switching output (potential-free, 100mA), 8 external digital inputs
- 16 external LED-outputs (dimnable), 1 switching output (potential-free, 100mA), 16* external digital inputs

External LED-outputs can be used in the grip for LEDs

*With the use of capacitive sensor, the external digital inputs reduce by one input!

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Other outputs

Voltage output for PVG32 0,25...0,5...0,75Us, power supply 9-32V DC

- Wiring:
1. cable 14x0,25mm² 300mm long without plug connector
 2. cable 14x0,25mm² 300mm long without plug connector (for axis 3+4 or grip function)

Optional with plug connector (standard plug connectors see page 129)

2 axis

E907 2

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Attachments

Z01 Mating connector (CAN) M12 (male insert) with 2m cable	20201140
Z02 Mating connector (CAN) M12 (female contact) with 2m cable	20202298

