

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 +85°C
Degree of protection	IP22



	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 157)</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 138)</i>							
Special model								
X	Special / customer specified							

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Digital output	
Supply voltage	9-32 V DC
Current carrying capacity	Direction signal 150 mA Zero position signal 500 mA
Mounting depth A	105 mm
Wiring	Cable 500 mm long without plug connector Optional with plug connector (<i>standard plug connectors see page 138</i>)
2 direction signals + 1 zero position signal (galvanically isolated) per axis	
	2 axis
	E002 2

Voltage output (not stabilized)	
Supply voltage	4,75-5,25 V DC
Mounting depth A	105 mm
Wiring	Cable 500 mm long without plug connector Optional with plug connector (<i>standard plug connectors see page 138</i>)
0,5...2,5...4,5 V redundant per axis	
	2 Achsen
	E103 2
Output options	
Characteristic:	
Inverse dual	1
Dual	2
Inverse dual with dead zone +/- 3° (standard)	3
Dual with dead zone +/- 3°	4

Voltage output	
Supply voltage	9-32 V DC (*11,5-32)
Mounting depth A	105 mm
Wiring	Cable 500 mm long without plug connector Optional with plug connector (<i>standard plug connectors see page 138</i>)
0,5...2,5...4,5 V redundant per axis	
	2 axis
	E111 2
0...5...10 V redundant per axis, supply voltage 11,5 - 32 V DC	
	2 axis
	E131 2
Output options	
Characteristic:	
Inverse dual	1
Dual	2
Inverse dual with dead zone +/- 3° (standard)	3
Dual with dead zone +/- 3°	4

Voltage output with other value on request!

Current output

Supply voltage	9-32 V DC		
Mounting depth A	105 mm		
Wiring	Cable 500 mm long without plug connector		
	Optional with plug connector (<i>standard plug connectors see page 138</i>)		S
0...10...20 mA per axis, sensor redundant with error monitoring and error signal			
	2 axis	E203 2	
4...12...20 mA per axis, sensor redundant with error monitoring and error signal			
	2 axis	E211 2	
Output options			
	Single		5
	Single with dead zone +/- 3° (standard)		6

Current output with other value on request!

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CAN

Supply voltage	9-36 V DC		
Idle current consumption	120 mA		
	External digital output for LEDs 5-30 mA (dependent on the number of LEDs)		
	Digital switching output (potential-free) 100 mA		
Mounting depth A	E3091: 105 mm		
	E3091X: 130 mm		
	E3101X - E3103X: 130 mm		
	E3104X - E3105X: 160 mm		
Protocol	CANOpen CiA DS 301 or SAE J 1939		
Baud rate	125 kBit/s to 1 Mbit/s (standard 250 kBit/s)		
Output value	255...0...255		
Wiring	CAN (IN) cable 300 mm with plug connector M12 (male)		
	CAN (OUT) cable 300 mm with plug connector M12 (female)		
	External in-/outputs cable 300 mm without plug connector		
	External in-/outputs cable 300 mm without plug connector (additionally from 32 in-/outputs)		
	Optional with plug connector (<i>standard plug connectors see page 138</i>)		S

CAN expansion stage 1

- 7 analogue Joystickachsen	E309	1	
- 16 digitale Joystickfunktionen			
- Input for capacitive sensor			
With additional external in-/outputs			
- 8 external LED-outputs (dimnable optional), 1 switching output (potential-free, 100 mA), 8 external digital inputs			2
- 16 external LED-outputs (dimnable optional), 1 switching output (potential-free, 100 mA), 16* external digital inputs			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!*

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CANopen Safety		
Supply voltage	9-36 V DC	
Idle current consumption	120 mA	
	External digital output for LEDs 5-30 mA (depending on the number of LED`s)	
	Digital switching output (potential-free) 100 mA	
Mounting depth A	E4091: 105 mm	
	E4091X: 130 mm	
	E4101X - E4103X: 130 mm	
	E4104X - E4105X: 160 mm	
Protocol	CAN Safety CIA 304	
Baud rate	125 kBit/s to 1 MBit/s (Standard 250 kBits)	
Output value	255...0...255	
Wiring	CAN (IN) cable 300 mm with plug connector M12 (male)	
	CAN (OUT) cable 300 mm with plug connector M12 (female)	
	External in-/outputs cable 300 mm without plug connector	
	External in-/outputs cable 300 mm without plug connector (additionally from 32 in-/outputs)	
	Optional with plug connector (<i>standard plug connectors see page 138</i>)	S
CANOpen safety expansion stage 1		E409 1
- 7 analog joystick axis		
- 16 digital joystick functions		
- Input for capacitive sensor		
With additional external in-/outputs		
- 8 external LED-outputs (dimnable optional), 1 switching output (potential-free, 100 mA), 8 external digital inputs		2
- 16 external LED-outputs (dimnable optional), 1 switching output (potential-free, 100 mA), 16* external digital inputs		3
<i>External LED-outputs can be used in the grip for LEDs</i>		
<i>*With the use of capacitive sensor, the external digital inputs reduce by one input!</i>		

Other outputs		
Voltage output for PVG32	0,25...0,5...0,75Us, power supply 9-32V DC	
Wiring:	1. cable 14 x 0,25 mm ² 300 mm long without plug connector	
	2. cable 14 x 0,25 mm ² 300 mm long without plug connector (optional for grip function)	
	Optional with plug connector (<i>standard plug connectors see page 138</i>)	S
	2 axis	E907 2

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

