

Multi-axis controller V24



The association drive V24 is designed as a driving joystick for construction and agricultural machinery. It has a parking position which can be inserted in the zero position. The V24 is characterized by its extremely rugged design. Through its various interfaces and the many possibilities of combination with our numerous ball handles the V24 is very flexible.



Technical data

Mechanical life V24	20 million operating cycles
Supply voltage	See interface
Operation temperature	-40°C to +85°C
Degree of protection	up to IP67
Functional safety	PLd (EN ISO 13849) possible

	V24	P1	Example T	-R	-B10	-E...	-S...	-X
Basic unit								
V24.1	Multi-axis controller, 1-axis							
V24L	Multi-axis controller, 1-axis with parking position left							
V24R	Multi-axis controller, 1-axis parking position right							
Gate								
P1	T-gate main axis axial <i>(included in basic unit!)</i>							
P2	T-gate main axis right outside							
P3	T-gate main axis left outside							
PX	Special gate							
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>							
Main axis								
R	Friction brake adjustable <i>(included in basic unit!)</i>							
Degree of protection								
B10	Joystick-main board sealed (IP67)							
B11	Joystick-main board sealed (IP67) and handle function sealed, handle with drain hole							
<i>For a schematic description of the protection class, see page 139</i>								
Interface <i>(description see on the following pages)</i>								
E3xx	CAN-interface							
E4xx	CANOpen Safety interface							
Plug connectors								
S..	Standard plug connectors <i>(see page 138)</i>							
Special model								
X	Special / customer specified							

Combination possibilities with our handles

B1  p. 185	B2  p. 187	B3  p. 161	B5  p. 189	B6  p. 191	B7 B8  p. 182	B9  p. 180	B10  p. 197	B14 B15  p. 199	
B20  p. 174	B22  p. 176	B23  p. 172	B24  p. 178	B25  p. 157	B28  p. 193	B29  p. 195	B30  p. 159	B31  p. 164	
B32  p. 166	B33  p. 168	B34  p. 170							

CAN

Supply voltage	9-36 V DC
Idle current consumption	120 mA
Mounting depth A	60 mm
Protocol	CANOpen CiA DS 301 or SAE J 1939
Baud rate	125 kBit/s to 1 Mbit/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 long without plug connector Optional with plug connector (<i>standard plug connectors see page 138</i>)

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CAN V24

- 7 analog joystick axis
- 15 digital joystick functions
- *With the use of external inputs, the joystickfunctions reduce by 7 pieces!*
- Input for capacitive sensor

With additional external in-/outputs

- 8 external LED-outputs, 1 switching output (potentialfree, 100 mA), 7 external digital inputs
- 16 external LED-outputs, 1 switching output (potentialfree, 100 mA), 7 external digital inputs

E312 1

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3

With additional digital outputs for the main-axis

- 2 direction signals + 1 zero position signal (potential-free) per axis

3

Additional analog outputs on request!

CANOpen safety

Supply voltage	9-36 V DC	
Idle current consumption	120 mA	
Mounting depth A	60 mm	
Protocol	CANOpen safety CIA 304	
Baud rate	125 kBit/s to 1 Mbit/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 long without plug connector	
	Optional with plug connector (<i>standard plug connectors see page 138</i>)	S

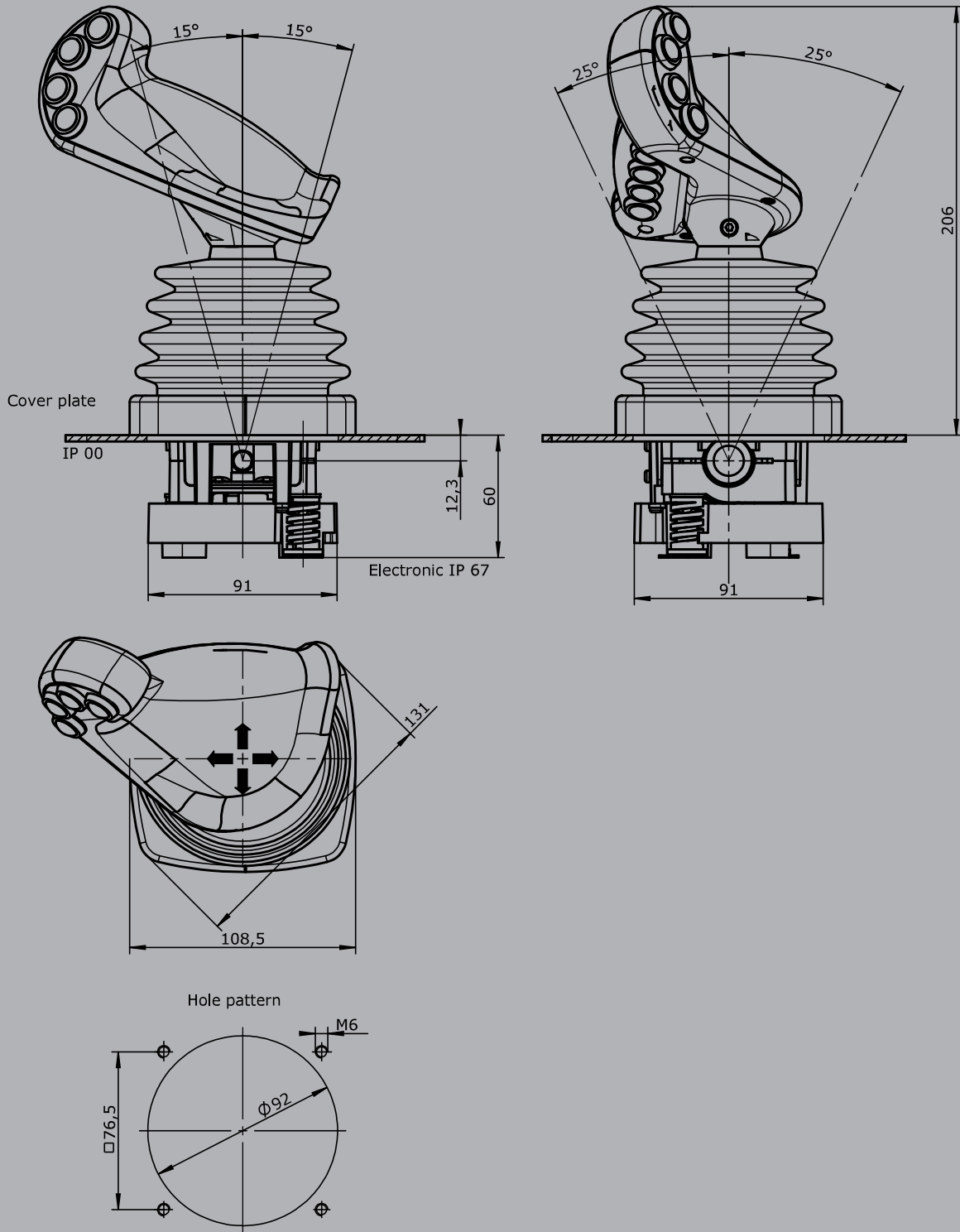
CANopen Safety V24

- 7 analog joystick axis		E411 1	
- 15 digital joystick functions			
<i>*With the use of external inputs, the joystickfunctions reduce by 7 pieces!</i>			
- Input for capacitive sensor			
With additional external in-/outputs			
- 8 external LED-outputs, 1 switching output (potentialfree, 100 mA), 7 external digital inputs			2
- 16 external LED-outputs, 1 switching output (potentialfree, 100 mA), 7 external digital inputs			3
With additional digital outputs for the main-axis			
- 2 direction signals + 1 zero position signal (potential-free) per axis			3
<i>Additional analog outputs on request!</i>			

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

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Technical details may vary based on configuration or application! Technical data subject to change without notice!