Multi-axis controller
V24

GESSMANN
Industrial Controllers

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 it`s various interfaces and the many possibilities of combination with our numerous ball handles the V24 is very flexible.

1

Technical data

Mechanical life V24	20 million operating cycles
Supply voltage	See interface
Operation temperature	-40°C to +60°C
Storage temperature	-50°C to +80°C
Degree of protection	IP54, electronic assembly IP67
Functional safety	PLd (EN ISO 13849) possible

	Example						
V24	**P1**	**T**	**- R**	**- 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 *(included in basic unit!)*
P2	T-gate main axis right outside
P3	T-gate main axis left outside
PX	Special gate

Grip / Palm grip

	Knob *(included in basic unit!)*
T	Dead man
H	Signal button
D	Push button
B...	Palm grip B... *(see page palm grip 147)*

Main axis

R	Friction brake adjustable *(included in basic unit!)*

Interface *(description see on the following pages)*

E3xx	CAN-interface
E4xx	CANOpen Safety interface

Plug connectors

S..	Standard plug connectors *(see page 129)*

Special model

X	Special / customer specified

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

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Combination possibilities with our handles

B1	B2	B3	B5	B6	B7 B8	B9	B10	B14 B15
p. 147	p. 149	p. 151	p. 154	p. 156	p. 158	p. 161	p. 163	p. 165

B20	B22	B23	B24	B25	B28	B29	B30	B31
p. 167	p. 169	p. 171	p. 173	p. 175	p. 177	p. 179	p. 181	p. 183

B32
p. 185

CAN		
Supply voltage	9-36V DC	
Idle current consumption	120mA	
Mounting depth A	60mm	
Protocol	CANOpen CiA DS 301 or SAE J 1939	
Baud rate	125kBit/s to 1Mbit/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 long without plug connector	
	Optional with plug connector *(standard plug connectors see page 129)*	S
CAN V24		E312 1
- 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, 100mA), 7 external digital inputs		2
- 16 external LED-outputs, 1 switching output (potentialfree, 100mA), 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
Additional analog outputs on request!		

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CANOpen safety			
Supply voltage	9-36V DC		
Idle current consumption	120mA		
Mounting depth A	60mm		
Protocol	CANOpen safety CIA 304		
Baud rate	125kBit/s to 1Mbit/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 long without plug connector		
	Optional with plug connector *(standard plug connectors see page 129)*		S
CANopen Safety V24			E411 1
- 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, 100mA), 7 external digital inputs			2
- 16 external LED-outputs, 1 switching output (potentialfree, 100mA), 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
Additional analog outputs on request!			

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

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15° 15°

25° 25°

206

Cover plate
IP 54
IP 00

12,3

60

91

91

131

108,5

Hole pattern

M6

□76,5

Ø92