

Multi-Axis Controller V26



GESSMANN®

The V26 is a robust joystick commonly used in electro-hydraulic applications. Long life and high reliability is ensured by the latest contactless hall-technology. With many outputs and grip 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
Functional safety	PLd compatible (EN ISO 13849, complies SIL2 to DIN EN IEC 61508)



	V26	T	-R	+R	-B	-E...	-S...	-X
Basic unit								
V26	Multi-axis Controller, 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 163)</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>								
E3xx	CAN-interface							
E4xx	CAN Safety interface							
Plug connectors								
S...	Standard plug connectors <i>(see page 127)</i>							
Special model								
X	Special / customer specified							

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	E3181: 105 mm		
	E3181X: 130 mm		
	E3191X - E3193X: 130 mm		
	E3194X - E3195X: 160 mm		
Protocol	CANopen CiA DS 301 or SAE J 1939 (based on)		
Baud rate	125 kBit/s to 1 Mbit/s (standard 250 kBit/s)		
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 127</i>)		S
CAN expansion stage 1		E318 1	
- 8 analog joystick axis			
- 16 digital joystick functions			
- Input for capacitive sensor			
- Output for vibrator control			
With additional external in-/outputs			
- 8 external LED-outputs (dimmable optional), 1 switching output (potential-free, 100 mA), 8 external digital inputs		2	
- 16 external LED-outputs (dimmable optional), 1 switching output (potential-free, 100 mA), 16* external digital inputs		3	
*External LED-outputs can be used for LEDs in the grip			
(Control of intelligent RGB LEDs possible on request)			
*With the use of capacitive sensor, the external digital inputs are reduced by one input!			

CAN Safety

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	E4181: 105 mm		
	E4181X: 130 mm		
	E4191X - E3193X: 130 mm		
	E4194X - E3195X: 160 mm		
Protocol	CANopen Safety EN50325-5 or J1939-76		
Baud rate	125 kBit/s to 1 Mbit/s (standard 250 kBit/s)		
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 127</i>)		S
CAN Safety expansion stage 1		E418 1	
- 8 analog joystick axis			
- 16 digital joystick functions			
- Input for capacitive sensor			
- Output for vibrator control			
*With the use of capacitive sensor, the external digital inputs are reduced by one input!			

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 for LEDs in the grip!</i>	
(Control of intelligent RGB LEDs possible on request)	
<i>*When using a capacitive sensor, the external digital inputs are reduced by one input!</i>	

Attachments	
Z01 Mating connector M12 male insert with 2 m cable	20201140
Z02 Mating connector M12 female insert with 2 m cable	20202298

