

Proportional amplifier type EV2S

Assembly instructions



Line connector

Supply voltage U_B : 10...30 V DC

Output current I_A : max. 2 A



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Installation, operation and maintenance information

1.1 Initial operation (quick start)

Switch on device

1. Connect power supply (litz wire/pin 1 and litz wire/pin 2)
2. Switch on power supply
- ✓ Display on **[-**

Select number of solenoids

- Single-action, twin and two single-action solenoids can be selected.
3. Select number of solenoids.

Display	Description
[-	No selection, invalid input
[1	One single-action solenoid
[2	One twin solenoid or two single-action solenoids (only possible with EV2S-CAN-DG-L3K)

Select operating mode using the **UP** and **DOWN** buttons. Confirm the selected operating mode with **OK**

- ✓ Display on **[-**

Select input signal

- To ensure operation without problems, it is essential to define the input signal correctly
4. Select input signal

Display	Input signal	Connection
[-	No selection, invalid input	
[0	0 to 10 V DC	Analogue input 1
[1	4 to 20 mA	Analogue input 1
[2	0 to 10 V DC	Analogue input 2
[3	CAN	Analogue input 2
[4	PWM	Analogue input 1
[5	2 x 0 to 10 V DC	Analogue input 1 & 2
[6	-10 to +10 V DC	Analogue input 2
[7	0.25 Ubat to 0.75 Ubat A: 0.49 Ubat to 0.25 Ubat, B: 0.51 Ubat to 0.75 Ubat	Analogue input 1
[8	0 to 5 V DC	Analogue input 1
[9	0 to 5 V DC	Analogue input 2

Select operating mode using the **UP** and **DOWN** buttons.
Confirm the selected operating mode with **OK**

- ✓ Display on **[U-**

Select supply voltage

5. Select supply voltage

Display	Description
U-	No selection, invalid input
12	12 V DC supply voltage
24	24 V DC supply voltage

Select operating mode using the **UP** and **DOWN** buttons.

Confirm the selected operating mode with **OK**

✓ Display on **P-**

Select valve type

Valve-specific settings, such as minimum current, maximum current, dither amplitude and dither frequency are crucial for ensuring that operation is as accurate as possible. Basic settings have been pre-defined for the most common valves

6. Select valve type

Display	Valve type	Minimum current	Maximum current	Dither amplitude	Dither frequency
P-	No selection, invalid input				
P0	General	0.0 A (12 V DC) 0.0 A (24 V DC)	1.0 A (12 V DC) 0.5 A (24 V DC)	50%	100 Hz, PWM
P1	PSL 2	0.34 A (12 V DC) 0.17 A (24 V DC)	1.16 A (12 V DC) 0.58 A (24 V DC)	50%	100 Hz, PWM
P2	PSL 3 & 5	0.37 A (12 V DC) 0.18 A (24 V DC)	1.26 A (12 V DC) 0.63 A (24 V DC)	50%	100 Hz, PWM
P3	EDL	0.46 A (12 V DC) 0.23 A (24 V DC)	1.56 A (12 V DC) 0.78 A (24 V DC)	50%	100 Hz, PWM
P4	EMP to V	0.4 A (12 V DC) 0.2 A (24 V DC)	1.6 A (12 V DC) 0.8 A (24 V DC)	50%	100 Hz, PWM
P5	PMV	0.2 A (12 V DC) 0.1 A (24 V DC)	1.26 A (12 V DC) 0.63 A (24 V DC)	30%	100 Hz, PWM
P6	PDV	0.2 A (12 V DC) 0.1 A (24 V DC)	1.2 A (12 V DC) 0.68 A (24 V DC)	30%	100 Hz, PWM
P7	PDM	0.2 A (12 V DC) 0.1 A (24 V DC)	1.26 A (12 V DC) 0.63 A (24 V DC)	30%	100 Hz, PWM
P8	SEH	0.18 A (12 V DC) 0.1 A (24 V DC)	1.26 A (12 V DC) 0.63 A (24 V DC)	30%	100 Hz, PWM

Select operating mode using the **UP** and **DOWN** buttons.

Confirm the selected operating mode with **OK**

✓ The display shows the setting for the first selection point "operating mode"

7. You can press **OK** to check the selected settings again

8. Save the settings by pressing the **UP** and **DOWN** buttons simultaneously for 2 seconds

✓ Ready for the next step: set the input signal and test the function

Further information

Additional versions

- CAN node type CAN-IO: D 7845 IO
- Proportional amplifier type EV1D: D 7831 D
- Proportional amplifier type EV1M3: D 7831/2
- Proportional amplifier type EV22K5: D 7817/2

Application

- Proportional directional spool valve, type PSL and PSV size 2: D 7700-2
- Proportional directional spool valve, type PSL, PSM and PSV size 3: D 7700-3
- Proportional directional spool valve, type PSL, PSM and PSV size 5: D 7700-5
- Proportional directional spool valve type PSLF, PSVF and SLF size 3: D 7700-3F
- Proportional directional spool valve type PSLF, PSVF and SLF size 5: D 7700-5F
- Proportional directional spool valve banks type PSLF and PSVF size 7: D 7700-7F
- Proportional directional spool valve type EDL: D 8086
- Proportional pressure-limiting valve type PDV and PDM: D 7486
- Directional seated valve type EM and EMP: D 7490/1
- Directional spool valve type NSWP 2: D 7451 N
- Variable displacement axial piston pump type V60N: D 7960 N
- Variable displacement axial piston pump type V30D: D 7960
- Variable displacement axial piston pump type V30E: D 7960 E
- Proportional pressure-limiting valve type PDV and PDM: D 7486
- Proportional flow control valve type SE and SEH: D 7557/1