

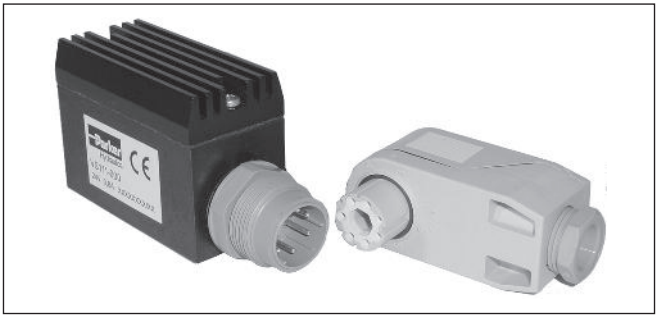
Characteristics

Plug-In Amplifier
Series VS111

The electronic plug amplifier VS 111 provides control for proportional pressure, directional, and throttle valves. The plug amplifier may be mounted directly on the proportional solenoids and secured with a screw.

The output of the amplifier supplies DC current for controlling one proportional solenoid.

This current is proportional to the command signal at the input of the amplifier. Through this, together with a proportional valve, an infinitely variable adjustment can be made to the pressure or flow.



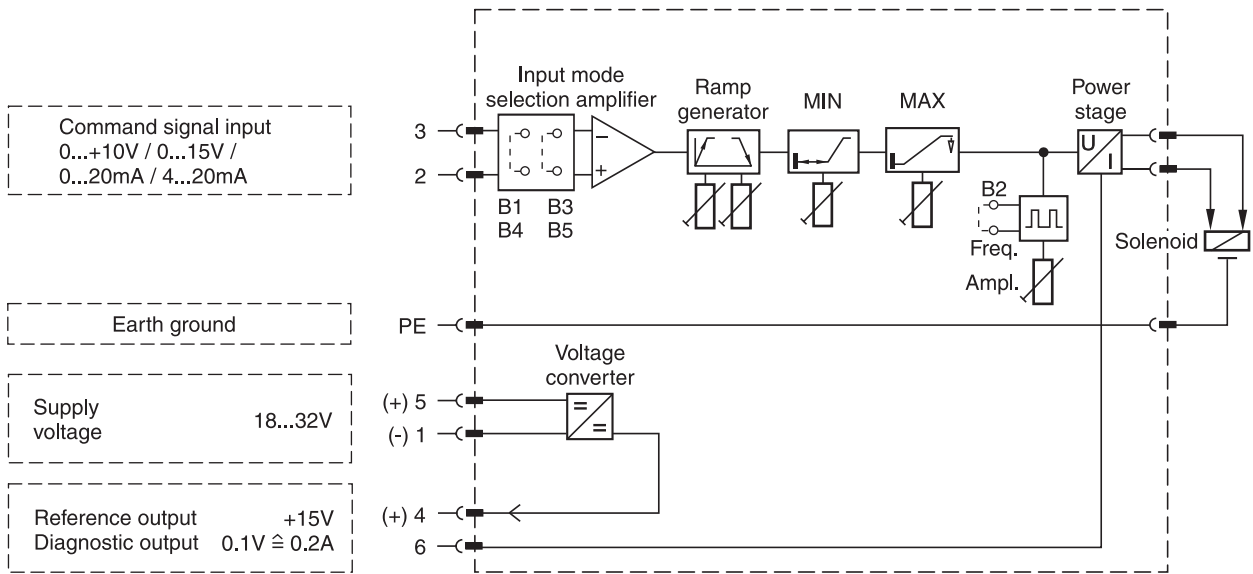
EMC

EN 50081-2	EN 55011	
EN 50082-2	EN 61000-4-2	EN 61000-4-4
EN 61000-4-3	EN 61000-4-5	

Features

- Solenoid control
- Simple installation, direct on valve
- Standard voltage or current signals for command signal inputs
- Capable of PLC control
- Solenoid current independent of temperature
- Solenoid connection 2+PE as per EN 175301-803
- Control connection 6+PE as per DIN 43651

Circuit diagram



General	
Design	Cable plug
Electrical	
Supply voltage [V]	18...32, ripple < 5%
Current consumption [A]	0.8
Power consumption (at 24V) [VA]	20
Pre fuse [A]	2.0 medium lag
Inputs	
Analogue command signal [V]	0...10 / 0...15, 100kOhm
command signal [mA]	0...20 / 4...20, 500Ohm
Outputs	
Reference [V]	15 ±5% / max. 5mA
Solenoids [A]	0.8
Temp. drift of solenoid output current [%]	< ±2%
Adjustment ranges	
Min [%]	0...50
Max	0...100
Ramp time [s]	0.1...8
Dither Amplitude [%]	0...90
Frequency [Hz]	40 / 80
Protection	
Industrial protection class	IP65, plugged and mounted
Environment	
Temperature [°C]	-20...60
Connection	
Supply connector	6pole + PE, DIN 43 651
Solenoid	2pole + PE, EN 175301-803

Note:
If high-resistance solenoids with nominal current of < 0.8A are used, the supply voltage has to be raised to 30VDC.

Ordering code

VS

11

1

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Plug amplifier

Valve type

Design series

Code	Valve type
0	No assignment *
1	Proportional flow valve
2	Proportional DC valve
8	Proportional pressure valve

*The versions acc. codes 1...8 will be shipped factory set.
The version Code 0 needs to be set to the connected valve's characteristics.

**Bold letters =
Short-term availability**

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Note:
Please order control connector separately (order number HR 2150 2072).

VS111.PMD CM

