

Plug-in proportional amplifier

RE 30259/07.12

1/4

Type VT-SSPA1-525-1X/V0

Component series 1X



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Features

- Analogue amplifier for controlling proportional valves (pressure and directional valves) without position control
- Differential input
 - Adjustable sensitivity and valve zero point
 - Connection via 4-pole connector
 - Operating voltage 12/24 V

Notice:

The photo is an example configuration.
The delivered product differs from the figure.

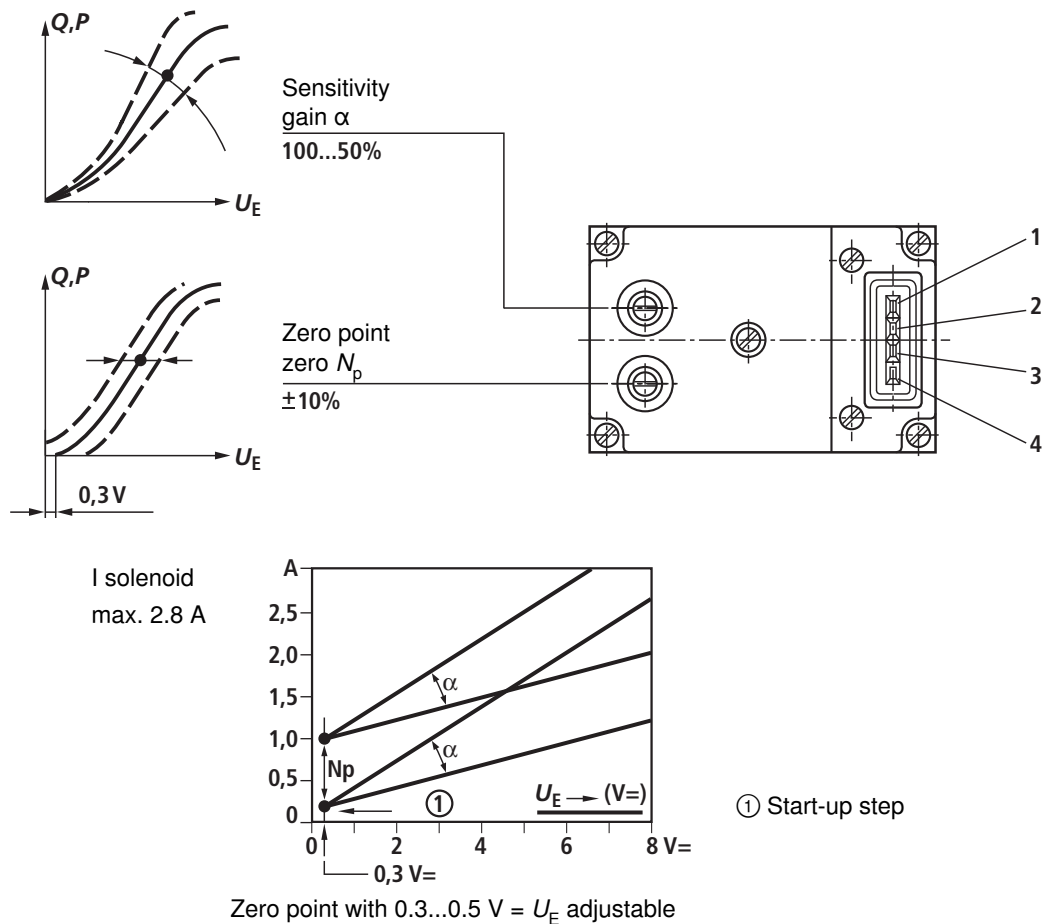
Ordering code

VT- S S P A 1 -525-1X/V0									
Plug-in proportional amplifier	= S							V0 =	Customer version Catalog version
Hydraulic component								1X =	Component series 10 to 19 (10 to 19: Unchanged technical data and pin assignment)
For valves without electrical feedback	= S							525 =	Serial number for type 2.5 A solenoid
Valve type									
Proportional valve	= P								
Control									
Analog									
Output stages									
1 output stage									

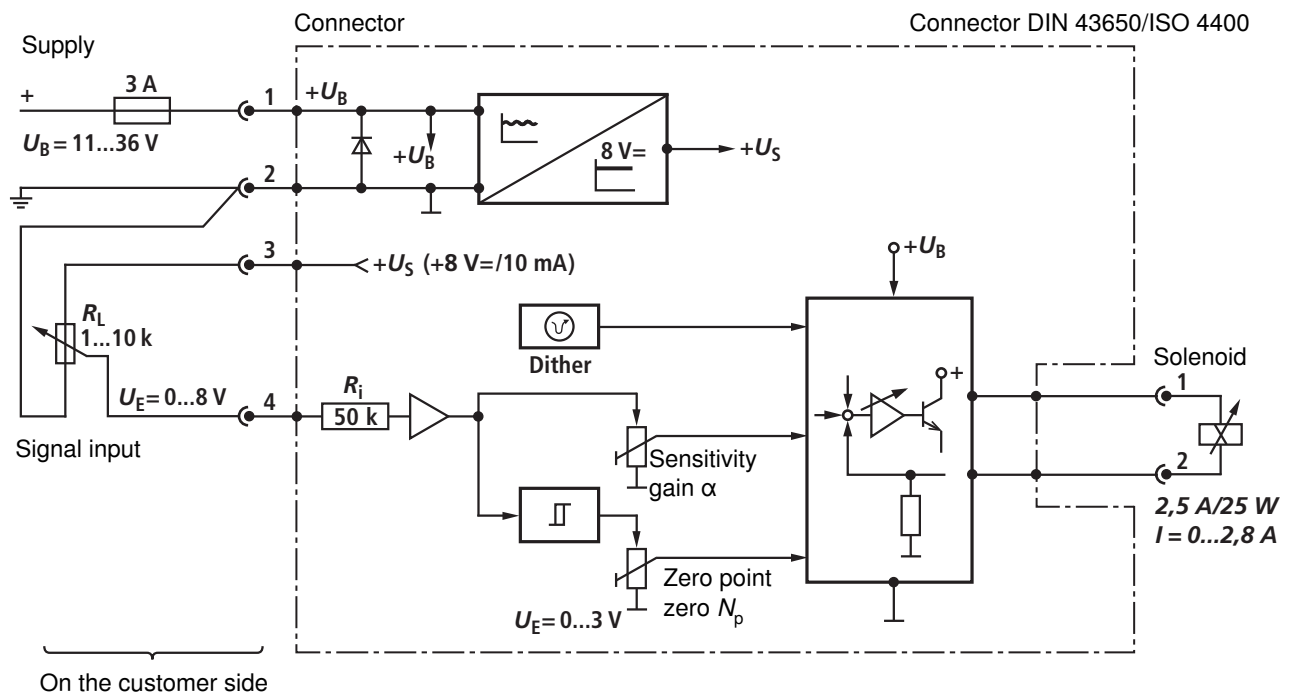
Preferred types

Type	Material number	For valves
VT-SSPA1-525-10/V0	0811405041	All proportional valves without position control with solenoid 2.5 A/25 W
Connector socket 4-pole	1834484098	

Adjustment, pin assignment



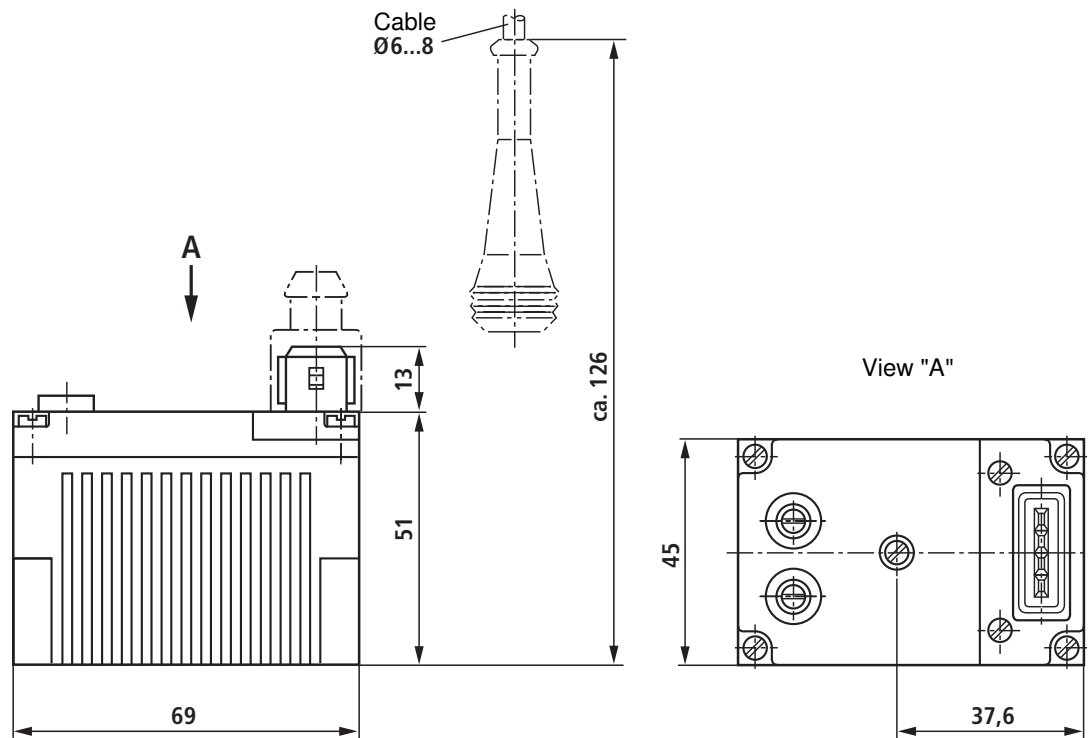
Block diagram with pin assignment



Technical data (For applications outside these parameters, please consult us!)

Design:	Connector housing		
Plug-in connection	Solenoid: DIN 34 650 Cable: 4-pole		
Ambient temperature	°C	−20...+70	
Storage temperature min.	°C	−20	
Protection class	IP 65 including connector socket, cable Ø 6...8 mm		
Supply voltage	12 V/24 V battery voltage (11...36 V, < 10 % ripple)		
Max. power consumption	W	< 30	
Input signal (command value)	V	0.3...8 < 0.3 V, solenoid de-energized	
Signal source	Potentiometer 1...10 kΩ Supply +8 V from (3)		
Output proportional solenoid	Rectangular voltage, pulse-modulated $I_{\max} = 2.5 \text{ A}$		
Cable lengths and cross-sections	Supply	< 20 m 20...40 m	1.5 mm ² 2.5 mm ²
Special features	– Inputs and outputs short-circuit proof – Clocked output stage – Fast energization for short actuating time		
Adjustment via trimming potentiometer	1. Zero point 2. Sensitivity		

Device dimensions (dimensions in mm)



Project planning / maintenance instructions / additional information

- The plug-in proportional amplifier may only be wired in de-energized condition.
- Do not lay lines close to power cables!
- The distance to aerial lines, radios, and radar systems has to be 1 m at least.
- To set the potentiometers and to check the current values, use the measuring adapter and measure the currents in a potential-free manner.
- The specified maximum solenoid currents must not be exceeded.
- Do not use solenoids with integrated free-wheeling diodes.
- The supply voltage is to be secured by means of a fuse – see "Technical data".