

## Connector switching amplifier

### Type VT-SSV-1



► Component series 2X

#### Features

- For control of on/off valves with DC linear solenoid actuation by electrical control signals with low power
- Direct activation is possible via the switching output signals of a control system
- Output with permanent short-circuit protection
- Status display of the switching status with LED

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**Ordering code**

01	02	03
<b>VT-SSV-1</b>	<b>-</b>	<b>2X</b> / <b>*</b>

01	Connector switching amplifier	<b>VT-SSV-1</b>
02	Component series 20 ... 29 (20 ... 29: unchanged installation and connection dimensions)	<b>2X</b>
03	Further details in the plain text	

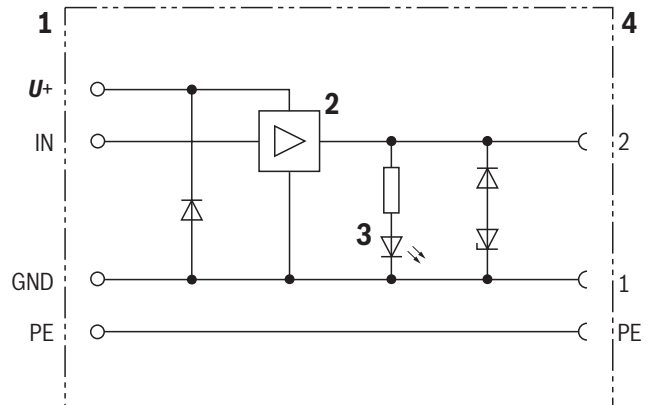
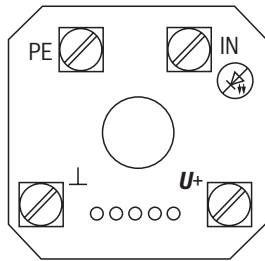
**Technical data**

(For applications outside these values, please consult us!)

<b>general</b>		
Weight, approx.	g	45
Ambient temperature range	°C	-20 ... +60
Storage temperature range	°C	-20 ... +70
Housings	SVS housing, design A according to DIN 43650, contact distance 18 mm	
Protection class according to EN 60529	IP65 (with inserted seal, plugged in and locked, with connected cable with tightened PG fitting)	

<b>electric</b>			
Supply voltage	► Nominal value	VDC	24
	► Minimum		21.6
	► Maximum		28.8
	► Maximum residual ripple	%	<15
Output current		A	2 (at 100% duty cycle)
Output voltage		VDC	<b>U+</b> – 0.2 (typical at 2 A)
Control voltage (enable "IN")	► ON	VDC	10 ... 42
	► OFF	VDC	0 ... 4
Control current		mA	2.9 ... 3.2
Maximum switching frequency		1/s	10
Cable connection	► single-wire	mm <sup>2</sup>	2.5
	► fine-wire	mm <sup>2</sup>	1.5
	► with wire end ferrule	mm <sup>2</sup>	1.5
Cable gland			Pg 11
Cable clamping range		mm	7.6 ... 11.5
Electrical connection			Mating connector 2-pole + PE according to DIN EN 175301-803 ("Z5L")
Material	► Flat seal		NBR
Electro-magnetic compatibility (EMC)	► EN 61000-6-2 / EN 61326-2-3		
	– EN 61000-4-2 ESD	kV	±4 (contact) / ±8 (air) with BWK B
	– EN 61000-4-3 HF radiated	V/m	10 (80 ... 1000 MHz) with BWK A 3 (1400 ... 2700 MHz) with BWK A
	– EN 61000-4-4 Burst	kV	2 (voltage supply input and output) 2 (signals and control ports)
	– EN 61000-4-6 HF conducted	V	10 with BWK A

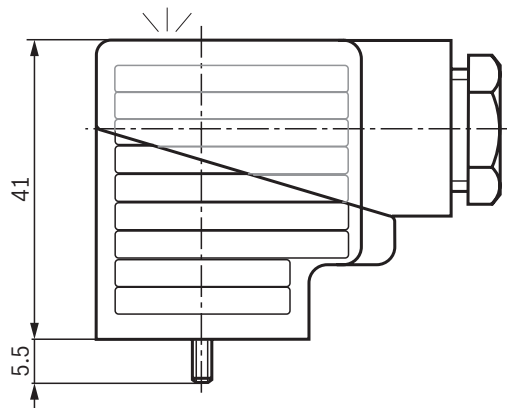
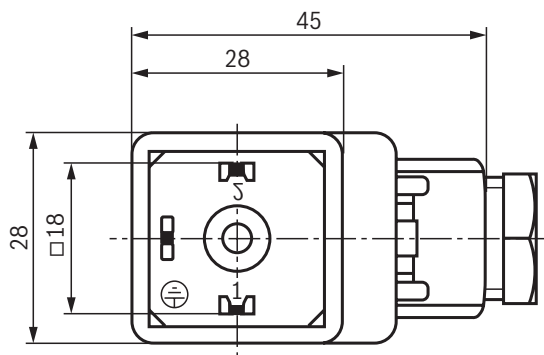
## Block diagram / pin assignment



- 1 Connection terminals
  - ▶ Operating voltage "U+" (+24 V)
  - ▶ Enable "IN"
  - ▶ Operating voltage "GND"
  - ▶ Protective grounding conductor "PE"
  - ▶ Clamping screw M2.6; tightening torque  $M_{A \max} = 0.4 \text{ Nm}$
- 2 Electronic switch
- 3 LED for status display
- 4 Electrical connections

## Dimensions

(dimensions in mm)



- ▶ M3 mounting screw, tightening torque  $M_A = 0.5 \text{ Nm}$
- ▶ Contacting according to DIN EN 175301-803

## Project planning and maintenance instructions

- ▶ The amplifier is integrated in the housing of a mating connector "Z5L" according to DIN EN 175301-803 with transparent cover. A three-wire connection line is required for operation. If a four-wire line is used, the protective grounding conductor can also be connected (recommendation: H05VV-F 4G1.5).
- ▶ The housing can be rotated during assembly in steps of 90°.
- ▶ In case of overload or short-circuit, the output is de-energized. Before switching on again, the control signal "IN" must be switched to "OFF" ( $\leq 4$  V).
- ▶ The switch-off times for the valves may be doubled to tripled due to limitation of the negative switch-off voltage peak.

## Further information

- ▶ Mating connectors and cable sets for valves and sensors
- ▶ Hydraulic valves for industrial applications
- ▶ Information on available spare parts

Data sheet 08006

Operating instructions 07600-B

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