

FEATURES

- **Input:**
2-wire proximity switch (NAMUR) or potential-free contact
- **Output:**
SV 5.10: 2 changer
SV 5.20: 1 transistor
- **adjustable:**
- function
- pulse duration
- **galvanic 3-way isolation**



FUNCTION

The switching amplifier SV 5 is being used for binary signal transmission of control circuit into signal circuit.

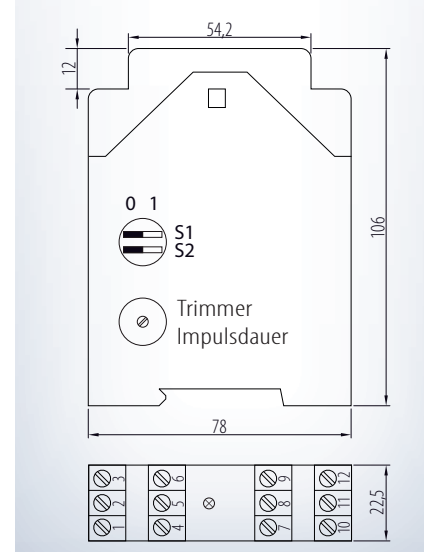
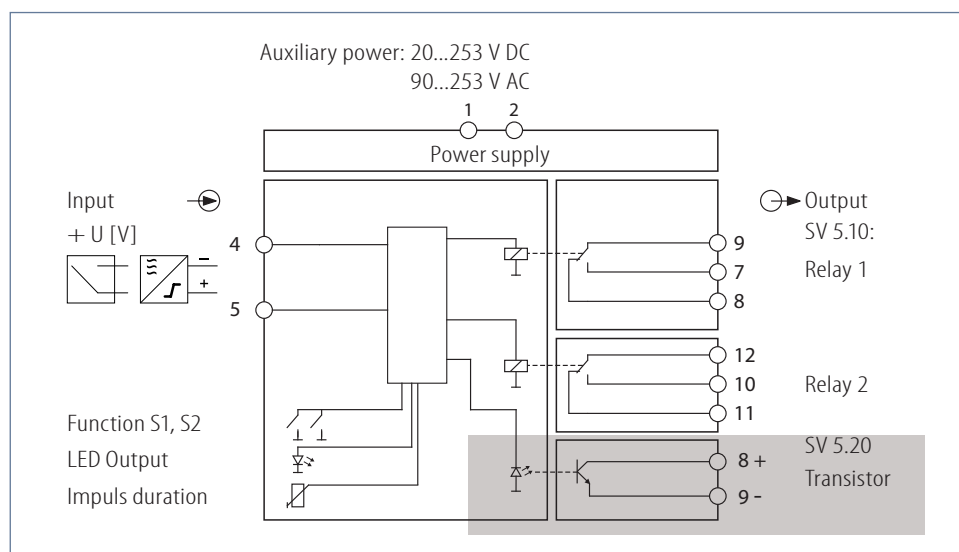
The activation has to be carried out by a 2-wire proximity switch according EN 50227 (NAMUR) or potential-free contact.

On the input short circuit or wire-break is being indicated by an opened output contact (impulse contact function).

The output is set up ex factory with an impulse contact - duration of 0,5 sec.

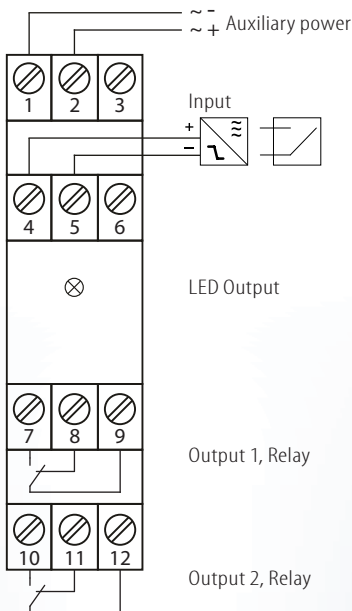
To change between impulse contact and permanent contact use sliding switch S1. The impulse duration can be changed by sliding switch S2 or trimmer.

The SV 5.10 GW provides a relay output (2 changer), the SV 5.20 GW has a transistor output.

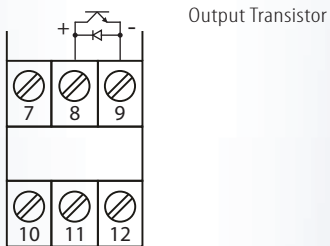


SV 5.10 GW SV 5.20 GW

SV 5.10 GW



SV 5.20 GW



Input:

2-wire proximity switch (Namur EN 50227) or potential free contact:

maximum current:	$I_{max} = 8 \text{ mA}$
maximum voltage:	$U_{max} = 8 \text{ V}$
min. impulse duration:	4 ms
connection:	terminal 4 -, 5 +

Output:

SV 5.10 GW relay output:	2 changer
contact load:	125 V AC, 0,3 A AC 110 V DC, 0,3 A DC 30 V DC, 1 A DC
switching capacity:	60 VA
mechanical life cycle:	$> 10^7$ cycles
impulse duration adjustable:	0,5...4 sec. or 0,1...1 sec.
connection:	see connection diagram

SV 5.20 GW transistor output:

	max. 50 V
	max. 50 mA
impulse duration adjustable:	0,5...4 sec. or 0,1...1 sec.
connection:	terminal 9 -, 8 +

Adjustment:

Function by sliding switch S1:	1 = impulse contact, 0 = permanent contact
Impulse duration by sliding switch S2:	1 = preset 2 sec., 0 = preset 0,5 sec.
Trimmer:	impulse duration (S2) adjustable: S2=1: 0,5...4 sec. S2=0: 0,1...1 sec.
Ex work setting:	impulse contact, 0,5 sec (S1=1, S2=0)

Environmental conditions:

Storage temperature:	-40...+70 °C
Operating temperature:	0...55 °C
Isolation voltage:	1 kV eff. 1 sek. input/ output 3,75 kV eff. 1 sek. auxiliary power

Auxiliary power:

Wide range:	20...253 V DC approx. 5...35 mA 90...253 V AC approx. 3...9 mA
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Influence of Auxiliary power:	< 0,1 %
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Directive:

EMC Directive:	2004/108/EC*
Low Voltage Directive:	2006/95/EC
*minimum deviations possible during HF-radiation influence	

Mounting details:

Housing for top hat rail	
Type of protection:	IP 40 housing IP 10 clamps
Rail-mounting fixed according to	EN 50022-35 x 6,2 mm
Width:	22,5 mm
Weight:	170 g
Material:	Noryl V0 150/ ABS
Flammability class:	ISO R75A 147°C/ 90°C
Approval:	CE
Connection:	screw clamps $\leq 2 \times 2,5 \text{ mm}^2$

For safety reasons we recommend to mount the housing for top hat rail with a distance of approx. 5 mm to each other. Please check switch position before initial operation !

Ordering information:

Type:	SV 5.10 GW	wide range	Relay
	SV 5.20 GW	wide range	Transistor

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