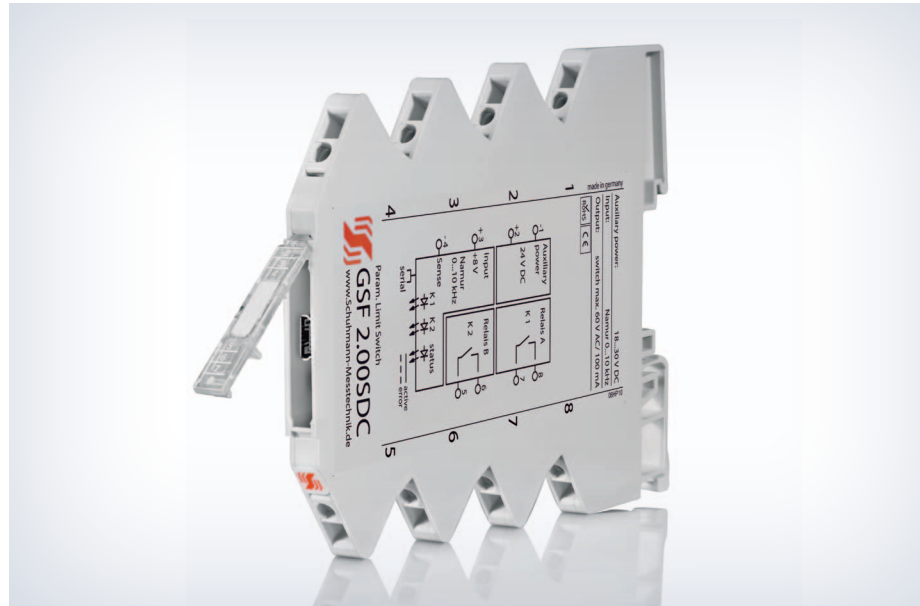


### FEATURES

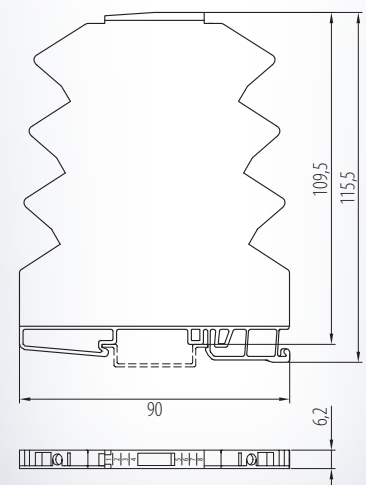
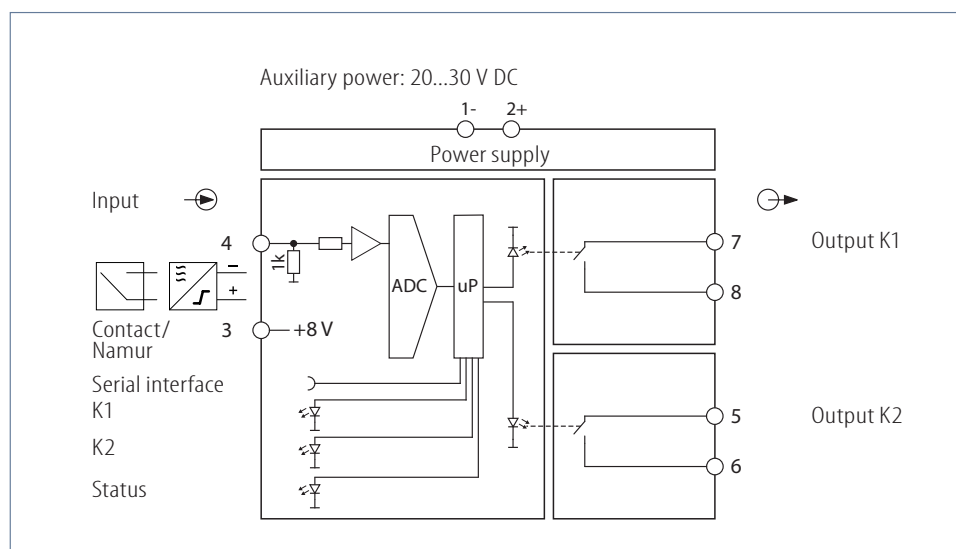
- **Frequency input:**  
Namur max. 10 kHz
- **Output: 2x transistor**
- **Indication of contact state by LED**
- **Additional functions:**  
Hysteresis, ON/OFF-delay, window, tendency, inverse function, alarm
- **Parameterization without auxiliary power via PC-interface**
- **Galvanic 3-way isolation of 2,5 kV**
- **Low internal consumption**



### FUNCTION

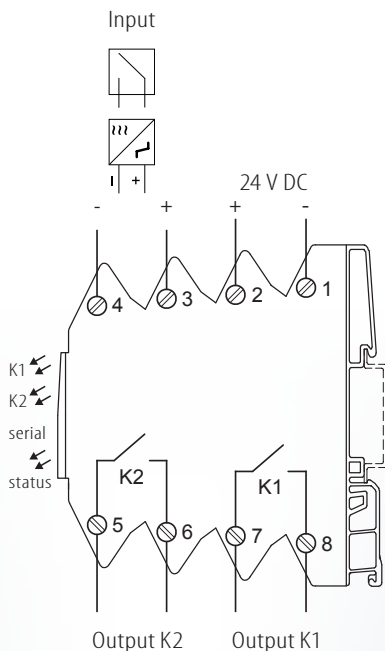
The GSF 2.00 SDC is used for the control of frequencies. As input signal **namur signals** are processed with a frequency range up to 10 kHz. As a result rotational speed on min./ max. or accelerations can be specified and given out as switching contact. The limit switch is being parameterized by the USB2 adapter in connection with KALIB-Software. For the output 2 potential free transistor switches are available which are equipped with limit values, hysteresis, ON/OFF-delay, window, alarm, inverse function, tendency and sensor control each.

The process variable to be controlled is supplied by a comparator to the processor as frequency after having passed an input filter. Due to the adjustable gate time the frequency can be recorded accordingly and depending on the set-point the transistor output will be energized.



# GSF 2.00 SDC

Connection diagram:



## Input:

Namur EN 50227 or potential free contact:

maximum voltage:	$U_{max} = 8 \text{ V}$
maximum current:	$I_{max} = 8 \text{ mA}$
connection:	terminal 4 -, 3 +

## Output:

2 transistor outputs:

load:	max. 30 V AC/ DC, max. 100 mA AC/ DC
connection K1:	terminal 7, 8
connection K2:	terminal 5, 6

Module for heavy loads:

Relay interface module, 2 relays with 6 A, 250 V  
Type: RE 2.00 S

## Adjustment:

Measuring ranges, switching points and parameterization are adjustable in parameter data by KALIB-Software. For this you need a PC as well as the interface adapter **USB2/ USB-Simulator** with **KALIB-Software**.

Parameterization for each channel:

Limit value adjustment:	0...12000 Hz	adjustable in 1 Hz steps
Hysteresis:	5...11000 Hz	adjustable in 1 Hz steps
ON/ OFF-delay:	0,0...999,0 sec.	adjustable in 0,1 sec. steps
Functions:	limit value, limit value range, tendency, inverse function, alarm function, start state, start time	

## Display:

LED status:	green, active	input signals are in standard range, device ready for use
	green, flashing	input out of predetermined limits or exceeding of measuring range
LED K1:	green, active	K1 closed
LED K2:	green, active	K2 closed

## Environmental conditions:

Storage temperature:	-40...+70 °C
Operating temperature:	0...55 °C
Isolation voltage:	2,5 kV eff. 1 sec. input-output 2,5 kV eff. 1 sec. auxiliary voltage

## Auxiliary power:

24 V DC:	20...30 V DC < 1,5 W
Influence of auxiliary power:	< 0,1 %

## Characteristics of transmission:

Resolution:	10 bit
Linearity error:	< 0,5 % of final value
Temperature error:	< 30 ppm/ K
Response time:	< 10 msec.

## Directive:

EMC Directive:	2014/30/EU*
Low Voltage Directive:	2014/35/EU
*minimum deviations possible during HF-radiation influence	

## Mounting details:

Housing for top hat rail	
Type of protection:	IP 20
Mounting rail fixed according to	EN 50022-35 x 6,2 mm
Width:	6,2 mm
Weight:	52 g
Material:	Polyamide PA
Flammability class:	V0 (UL 94)
Approval:	CE
Connection:	screw clamps 0,14...2,5 mm <sup>2</sup>

**Please check parameterization before initial operation!**

## Ordering information:

<b>Type:</b>	<b>GSF 2.00 SDC</b>	24 V DC
Accessories:	USB2/ USB-Simulator with KALIB-Software, manual	

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