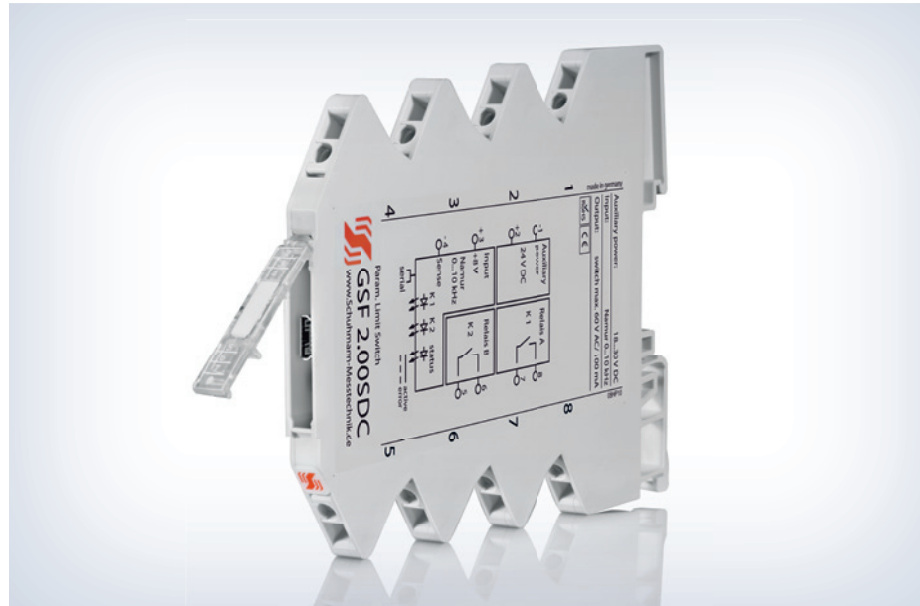


### FEATURES

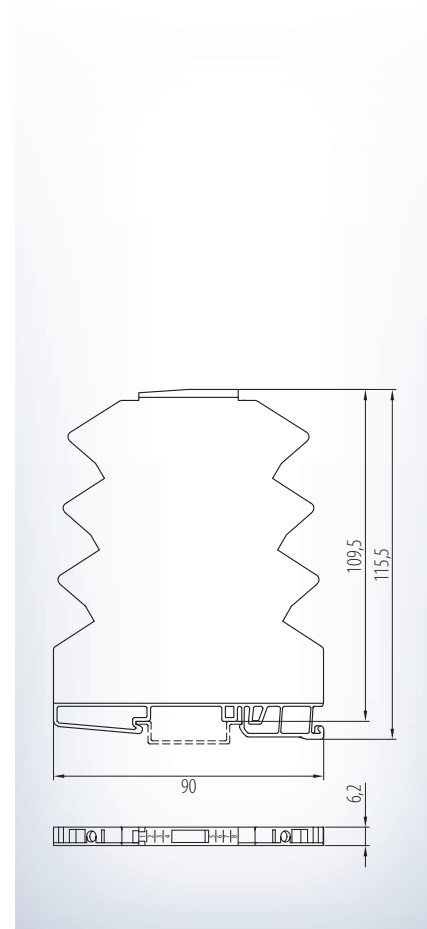
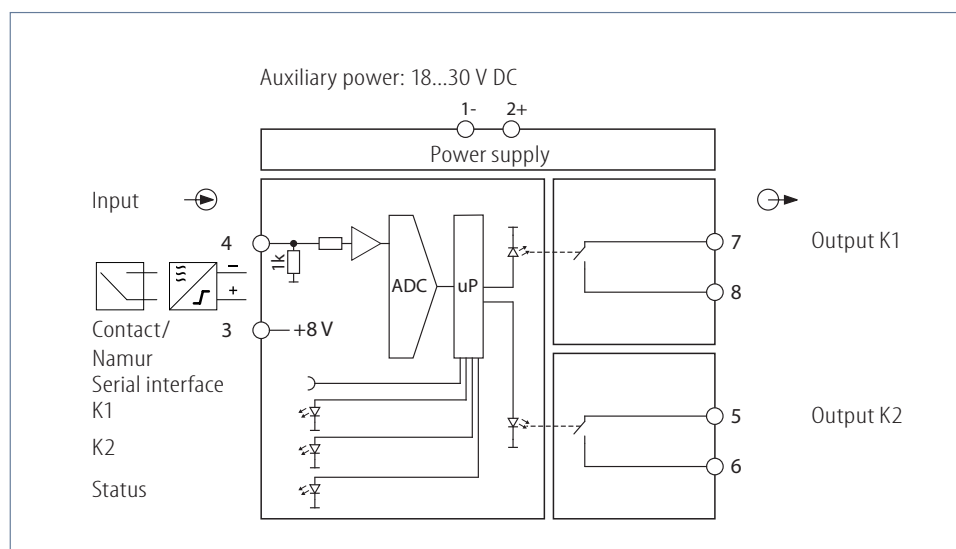
- **Frequency input:**  
Namur max. 10 kHz
- **Output: 2x transistor**
- **Indication of contact state by LED**
- **Additional functions:**  
hysteresis, ON/ OFF-delay, window, tendency, inverse function, alarm
- **Parameterization without auxiliary power via PC-interface**
- **Galvanic 3-way isolation 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 speeds on minimum or maximum or also accelerations can be specified and output 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

## 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:

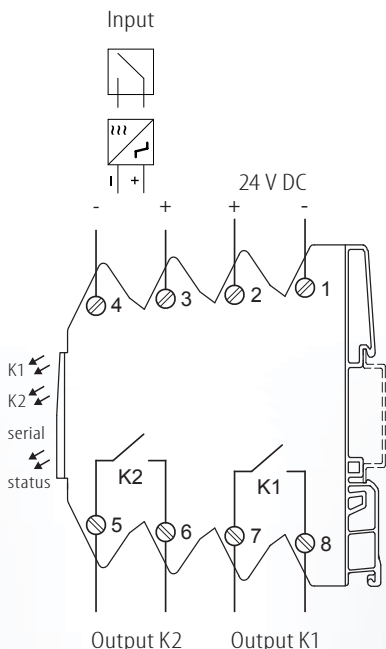
Measuring ranges, switching points and parameterization are adjustable in parameter data by KALIB-Software. You need a PC and the interface adapter USB2 with KALIB-Software.

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 green, flashing	input signals are in standard range, device ready for use 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:	18...30 V DC approx. 5...30 mA
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:	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 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:

Type:	<b>GSF 2.00 SDC</b>
Accessories:	USB2 with KALIB-Software, manual

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