

## IV 5.02 MW

### **FEATURES**

- Input, max. 400 Hz: 2-wire proximity switch (NAMUR) or potential-free contact or reflecting light barrier or 24 V DC signal/ tacho generator
- Output, simultaneously: 2 relay (changer)
- Adjustable via DIP switches: - function
  - pulse duration
- Parameterization without auxiliary power via PC-interface:
   wipe time, inverse, memory, etc.

Galvanic 3-way isolation



#### **FUNCTION**

The Switching Amplifier IV 5.02 MW is being used for binary signal transmission out of control circuits into signal circuits.

The activation has to be carried out by a 2-wire proximity switch according to EN 50227 (NAMUR) or potential-free contacts. A reflecting light barrier or a 24 V DC signal/ tacho generator can also be used for this.

It is possible to specify different operating modes by the KALIB-Software, e.g. specific wipe times. Additional functions such as starting characteristics, input filter, pulse memory and limits for short circuit or wire break detection can be set. The simultaneous outputs can be parameterized separately and also be used as an alarm contact for wire break or short circuit.

The change between pulse contact and continuous pulse is made via DIP-switch S1. The pulse duration can be changed with the DIP-switch S2 or the KALIB-Software.

The IV 5.02 MW has two relay outputs (changer). Relay 2 can be deactivated via DIP-switch S3 or the KALIB-Software.

Factory setting:

wipe pulse, duration: 0,1 sec., relay 2 active.









# IV 5.02 MW

#### Connection diagram:



Schuhmann GmbH & Co. KG Römerstraße 2 D-74363 Güglingen Tel. + 49 71 35 50 56 E-mail: info@schuhmann-messtechnik.de www.schuhmann-messtechnik.de

Input:								
Namur EN	50227 or potent	tial free	e contact or refle	ecting light ba	arrier:			
maximu	im current, volta	age:	$I_{max} = 8 \text{ mA}; U_{max} = 8 \text{ V}$					
min. im	pulse duration:		> 25 µs (default filter 1 ms, changeable via KALIB-Software)					
connect	ion:		terminal 3 +, 4 -					
24 V DC sig	gnal/ tacho, con	nect.:	terminal 4 +, 5	5 -				
Output:								
Relay outp	ut 1:		1 changer					
load:			max. 250 V AC/ 5 A					
connect	tion:		common 7, no	rmally closed	9, norm	ally open	8	
Relay output 2:			1 changer					
load:			max. 250 V AC	/ 5 A				
connect	tion:		common 12, n	ormally close	d 10, no	rmally op	en 11	
Adiustme	ent:							
Curitch	Function		1					1
	Function		l so contact		OFF		(1.1)	
51	output	pu	lse contact 100 m	soc (\$1_0N)	pulse contact 10		(1.1)	
52	relay	rol					IISEC. (SI—ON)	
	function select		DIP-switch values (S1 S3) active		Unity relay 1			
ON OFF	Tunction select.			1				
Switch	Function	0	1		OFF			
SI			•		1 011			
S2	– KALIB–Softwa	ire vali	les active*1. DIP	- switch S1	S3 withc	ut functi	on	
 S3	1	2.010						
S4	function select.				KALIB-9	Software v	alues active	
ON OFF	-							
input filter wire break short circu mode: *wipe time *pulse mer extended f <b>Display:</b> LED status LED's outp <b>Environn</b> Storage ter Operating Isolation vi	it limits: it lim	off; 0,5 10,00 52,99 off/ corpulse n each 0, 21000 inverse tive shing ctive ons: -40+ 055 °	<ul> <li>20 msec. freq .46,99 %</li> <li>.94,99 %</li> <li>ntin. pulse/ pulse nemory overflow</li> <li>00230,000 sec</li> <li>00 pulses</li> <li>operation, start</li> <li>input sigr Namur w output ac</li> <li>.70 °C</li> <li>C</li> <li>output</li> </ul>	uency input f ad ad e contact"/ Na w (only relay 2 c. ad state (on/ of nals are in star ire br. or shor tive <b>Mounti</b> Housing Type of p	ilter (fac justable justable amur wii 2)/ pulse justable if), start if), start indard ra t circ./ p ing deta for top h protectio	tory setti in 0,02 % in 0,02 % re break a failure/ i in 1 msec time (0 nge, devi ulse men <b>ails:</b> nat rail n:	ng: 1 ms) 6 steps 6 steps and short circuit mpulse generat c. steps 30 sec.) ce ready for use n. overfl./ pulse	c/ tor failure
1 kV 3,75	eff. 1 sec. i kV eff. 1 sec. a	input/ auxiliar	output ry power	Mountin	ıg rail fix	ed accord	ling to EN 50022-35 >	x 7,5mm
Auxiliary	power:			Woight:			12,5 mm 100 c	
Wide range: 24			0 V DC	weight:	weight: Matorial:		IUU Y Polyamida (PA	
9	-	9025	3 V AC	IVIaterial	hilitur-l-		roiyamide (PA	N)
		< 3 W			onity Cla 1	55.	VU (UL94) CE	
Influence o	of Aux. power:	< 0,1 9	6	Approva	i.			lamne
				Connect	1011.		<pre>plugy.sclew()</pre>	.annps 2
Directive	:			E a mare f	<b></b>			
EMC Direct Low Voltag *minimum HF-radiati	tive: ge Directive: deviations possib on influence	201 201 le durin	4/30/EU* 4/35/EU g	ror safe mount distanc Please o operati	mount the housing for top hat rail with a distance of approx. 5 mm to each other. Please check switch position before initial operation!		ith a her. initial	
Ordering	information:			<b>Type:</b> Accessor	ies:	<b>IV 5.02  </b> USB2/ US KALIB-So	<b>MW</b> w SB–Simulator w oftware	ide range ith

19.01.2023