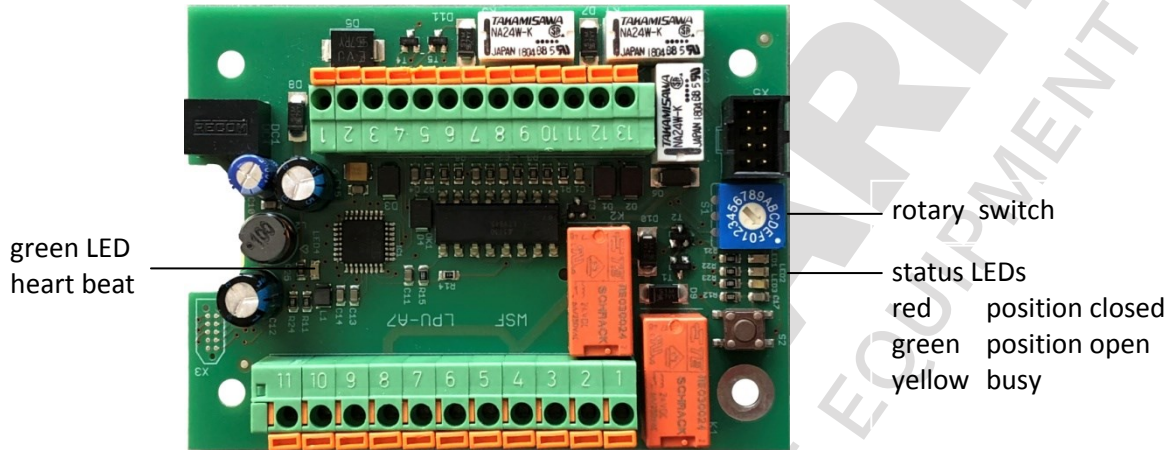


## Connection scheme – normal / failsafe close

24VDC												
power supply		error		control input			limit switches			monitoring output		
		potential free contact		+24V			+24V			potential free contact		
+24V	gnd	err	err	com	cl	op	com	cl	op	com	cl	op
1	2	3	4	5	6	7	8	9	10	11	12	13

+24V	24VDC
gnd	power supply
com	common
err	error output
op	open
cl	close
1+5+8	internally connected



11	10	9	8	7	6	5	4	3	2	1
B	V	V/B	C	C	M	M	M	N	L	PE
					bk	wh	rd			
					motor		230VAC			

PE	protect earth
L	230VAC
N	power supply
M	motor
C	capacitor
V	valve
B	bridge

### Switch adjustment: (Software Version: V1.6)

(Old <sup>1)</sup> )	Switch #	Input open	Input close	Actuator type	
o	0	o	o	o	o
o	1	o	o	o	o
o	2	o	o	o	o
o	3	o	o	o	o
o	4	o	o	o	o
(V5+)	5	=> like #E with overrun <sup>2)</sup>	=> like #E with overrun <sup>2)</sup>	single acting	o
(V1+)	6	=> like #A with overrun <sup>2)</sup>	=> like #A with overrun <sup>2)</sup>	double acting	o
(V2+)	7	=> like #B with overrun <sup>2)</sup>	o	double acting	(failsafe close)
(V3+)	8	=> like #C with overrun <sup>2)</sup>	=> like #C with overrun <sup>2)</sup>	double acting	o
(V4+)	9	=> like #D with overrun <sup>2)</sup>	o	single acting	failsafe close
(V1)	A	pulse <sup>3)</sup> => open	pulse <sup>3)</sup> => close	double acting	o
(V2)	B	active => open, inactive => close	o	double acting	(failsafe close)
(V3)	C	while active => open	while active => close	double acting	o
(V4)	D	active => open, inactive => close	o	single acting	failsafe close
(V5)	E	pulse <sup>3)</sup> => open	pulse <sup>3)</sup> => close	single acting	o
o	F	o	o	o	o

<sup>1)</sup> Operation mode Vx set by dip switches on former control card SanSwitch 2.0 - (Vx+) is Vx with overrun.

<sup>2)</sup> Overrun time is pre-configured to 5s.

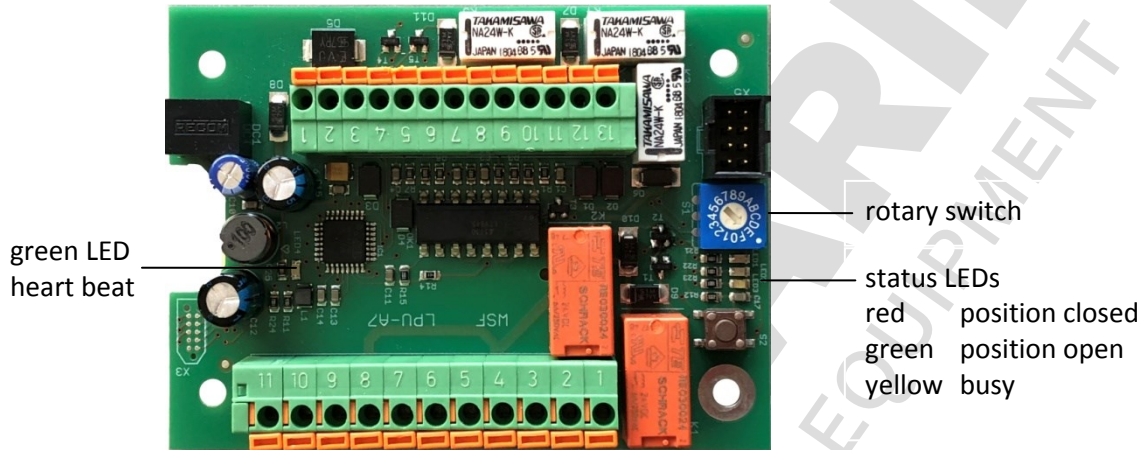
<sup>3)</sup> Minimum pulse width is 500ms.

o not used

## Connection scheme – failsafe open

24VDC												
power supply		Error		control input			limit switches			monitoring output		
		potential free contact		+24V			+24V			potential free contact		
+24V	gnd	err	err	com	-	cl	com	op	cl	com	op	cl
1	2	3	4	5	6	7	8	9	10	11	12	13

+24V	24VDC
gnd	power supply
com	common
err	error output
op	open
cl	close
1+5+8	internally connected
function changed	



11	10	9	8	7	6	5	4	3	2	1
B	V	V/B	C	C	M	M	M	N	L	PE
					rd	wh	bk			
					motor		230VAC			
230VAC										

PE	protect. earth
L	230VAC
N	power supply
M	motor
C	capacitor
V	valve
B	bridge

### Switch adjustment: (Software Version: V1.6)

(Old <sup>1)</sup> )	Switch #	Input close	-	Actuator type	
○	0	○	○	○	○
○	1	○	○	○	○
○	2	○	○	○	○
○	3	○	○	○	○
○	4	○	○	○	○
○	5	○	○	○	○
○	6	○	○	○	○
(V7+)	7	=> like #B with overrun <sup>2)</sup>	○	double acting	(failsafe open)
○	8	○	○	○	○
(V6+)	9	=> like #D with overrun <sup>2)</sup>	○	single acting	failsafe open
○	A	○	○	○	○
(V7)	B	active => close, inactive => open	○	double acting	(failsafe open)
○	C	○	○	○	○
(V6)	D	active => close, inactive => open	○	single acting	failsafe open
○	E	○	○	○	○
○	F	○	○	○	○

<sup>1)</sup> Operation mode Vx set by dip switches on former control card SanSwitch 2.0 - (Vx+) is Vx with overrun.

<sup>2)</sup> Overrun time is pre-configured to 5s.

<sup>3)</sup> Minimum pulse width is 500ms.

○ not used

## Technical data

article	SanSwitch 2.1		
article number	41969		
power supply	max.	30 VDC	
	typical	24 DVC	
	ca.	50 mA	@ 24 VDC, without extra load
control inputs	max.	30 VDC	
	typical	24 DVC	
	ca.	8 mA	@ 24 VDC
motor	max.	250 VAC	AC
	max.	6A	
monitoring output	closed if active		
	max.	250 VAC	AC
	max.	62.5 VA	
	max.	220 VDC	DC
	max.	30 W	
error output	closed if active		
	max.	250 VAC	AC
	max.	62.5 VA	
	max.	220 VDC	DC
	max.	30 W	

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