wieland

Electrical
Connections

safety

Safety Products

**Safety for
all applications**

0152.5 E 03/07

Safety switching devices from Wieland Electric

Wieland Electric provides safety switching devices for all daily industrial use applications. Requiring only little space they combine excellent performance features with economical installation/de-installation and high environmental compatibility. The devices are characterized by their multifunctional applications and monitoring of various sensors such as position and magnetic switches, emergency stop buttons, inductive sensors or light curtains. Space-saving devices for applications with Stop Category 1, monitoring of testable light curtains and supply voltages of up to AC 230 V are only a few of the interesting features provided by Wieland safety switching devices. With its master module from the ***samos***® system Wieland Electric presents the first multifunctional safety switching device in a 22.5 mm housing worldwide. For more than 15 years Schleicher Electronic has designed and developed cutting-edge technology with maximum safety. As a matter of course the latest standards for functional safety such as IEC 61508, DIN EN 62061 and EN ISO 13849-1 have been fulfilled.

Additional areas of use such as elevator applications complying with EN81-1 or heater control systems complying with EN 50156-1 have been confirmed with TÜV certificates. For time-saving maintenance most devices are also available with plug-in terminals (screw or duo spring clamp).

Connection technology for devices of series SNx 4xxx and *samos*®

Screw terminals, fixed
Wire range with ferrule up to
1 x 2.5 mm², up to 2 x 0.5 mm²

Screw terminals pluggable
as 4-terminal
block assembly
Wire range with ferrule
up to 1 x 2.5 mm²,
up to 2 x 0.5 mm²
Type marked "-A"

Spring clamp terminals pluggable
as 4-terminal block assembly
Wire range up to 2 x 1.5 mm²
Cable push-in technology
Type marked "-C"

General technical data

Max. rated switching voltage	AC/DC 230 V	***samos***®: DC 24 V
Max. continuous current per current path	6 A	SNA: 8 A ***samos***®: 2 A
Housing/Terminals degree of protection	IP 40 / IP 20	
Control cabinet installation	on EN 50022 DIN rail	
Ambient temperature	–25 to +55 °C	SNA: –25 to +65 °C
Approvals	c UL us , CCC being prepared	***samos***®, SNA, SNV4x7xSx: TÜV, c UL us

Type		***samos*®** SA-BM-S1	SNO 4003K	SNO 2004K	SNO 5002K	SNO 4062K	SNO 4062KM	SNA 4043K	SNA 4063K	SNA 4044K	SNA 4064K
											
Safety applications	**up to**	SK4 SIL 3	SK2	SK2	SK2	SK4	SK4	SK4 SIL 3 PL e	SK4 SIL 3 PL e	SK4 SIL 3 PL e	SK4 SIL 3 PL e
		MULTIFUNCTION						EN 81	EN 81	EN 81	EN 81
						TYPE 4	TYPE 4	TYPE 4	TYPE 4	TYPE 4	TYPE 4
Category device		SIL 3	SK4	SK3	SK4	SK4	SK4	SK4	SK4	SK4	SK4
Input circuits		MULTI	IN	IN	IN	IN IN	IN IN	IN IN	IN IN	IN IN	IN IN
Safe enables		SAFE 2 OFF-DELAY 2	SAFE 3	SAFE 2	SAFE 2	SAFE 2	SAFE 2	SAFE 3	SAFE 3	SAFE 4	SAFE 4
Message outputs			1		1	1	1	1	1		
Rated voltage		DC 24 V	AC/DC 24 V AC 115-120 V AC 230 V	AC/DC 24 V	DC 12 V DC 24 V AC 115-120 V AC 230 V	AC/DC 24 V	AC/DC 24 V	AC/DC 24 V AC 42-48 V AC 115-120 V AC 230 V	AC/DC 24 V AC 42-48 V AC 115-120 V AC 230 V	AC/DC 24 V AC 42-48 V AC 115-120 V AC 230 V	AC/DC 24 V AC 42-48 V AC 115-120 V AC 230 V
Automatic Reset		AUTO-RESET	AUTO-RESET	AUTO-RESET	AUTO-RESET	AUTO-RESET	AUTO-RESET	AUTO-RESET		AUTO-RESET	
Reset w/o monitoring		RESET	RESET	RESET	RESET	RESET	RESET	RESET		RESET	
Reset with monitoring		RESET	RESET		RESET	RESET	RESET		RESET		RESET
Short-circuit monitoring		CROSSMON				CROSSMON	CROSSMON	CROSSMON	CROSSMON	CROSSMON	CROSSMON
Synchro-check											
Special features		EXPANSION Module from the ***samos*®** system			Safe isolation		INPUT MONO-FLOP Tactile operation				
Housing size		22,5 mm	22,5 mm	22,5 mm	22,5 mm	22,5 mm	22,5 mm	22,5 mm	22,5 mm	22,5 mm	22,5 mm

SNO 4063K	SNO 4063KM	SNV 4063KL	SNV 4076SL*)	SNV 4074SL*)	SNV 4063KP	SNT 4M63K	SNZ 4052K	SNL 4062K	SNE 4004K	SNE 4004KV	SNE 4008S
											
SK4	SK4	SK 4+3	SK4	SK4	SK 4+3	SK4	SK4	SK3	*	*	*
			SIL 3	SIL 3							
			PL e	PL e							
TYPE 4	TYPE 4	TYPE 4	TYPE 4	TYPE 4	TYPE 4	TYPE 4		TEST TYPE 2			
SK4	SK4	SK 4+3	SK4	SK4	SK 4+3	SK4	SK4	SK3			
IN	IN	IN	IN	IN		IN	2x IN	IN			
IN	IN	IN	IN	IN	IN	IN		IN			
SAFE 3	SAFE 3	SAFE 2	SAFE 3	SAFE 2	SAFE 2	SAFE 3	SAFE 2	SAFE 2	SAFE 4	SAFE 4	SAFE 8
		SAFE 1	SAFE 3	SAFE 2	SAFE 1						
			1	2 2			1	1	3	3	4
DC 12 V AC/DC 24 V AC 115-120 V AC 230 V	DC 24 V	DC 24 V	DC 24 V AC 115-230 V	DC 24 V AC 115-230 V	DC 24 V	AC/DC 24 V AC 115-120 V AC 230 V	AC/DC 24 V AC 115-120 V AC 230 V	DC 24 V	AC/DC 24 V	DC 24 V	AC/DC 24 V
AUTO-RESET	AUTO-RESET	AUTO-RESET	AUTO-RESET	AUTO-RESET	AUTO-RESET	AUTO-RESET	AUTO-RESET	AUTO-RESET			
RESET	RESET	RESET	RESET	RESET	RESET	RESET		RESET			
RESET	RESET	RESET	RESET	RESET	RESET	RESET		RESET			
CROSSMON	CROSSMON	CROSSMON	CROSSMON	CROSSMON	CROSSMON	CROSSMON	CROSSMON	CROSSMON			
t		t			t	t	0,5 s				
	INPUT MONO-FLOP	OFF-DELAY			ON-DELAY		C			OFF-DELAY	
	Tactile operation										
22,5 mm	22,5 mm	22,5 mm	45 mm	45 mm	22,5 mm	22,5 mm	22,5 mm	22,5 mm	22,5 mm	22,5 mm	45 mm

*) See the table on page 8 for additional types with ON delay and OFF delay with re-triggering

Glossary of icons

SILcl 3
in accord. with EN 61508 and EN 62061

Performance Level e
in accord. with EN ISO 13849-1

Safety category 2
in accord. with EN 954-1
yellow: application; gray: device

Safety category 3
in accord. with EN 954-1
yellow: application; gray: device

Safety category 4
in accord. with EN 954-1
yellow: application; gray: device

Safety category 4 or 3 in accord. with EN 954-1
(as per enable type)
yellow: application; gray: device

Category dependent on base device and wiring

Emergency Stop monitoring

Two-hand control according to EN 574-1

Output expansion
with safe enables

Protective gate monitoring

Safety mat monitoring

Controlled Stop
Corresponding to stop category 1

Door guard lock
time-monitored

Valve position monitoring
static

AOPD-compatible
Connection of sensors with semiconductor outputs possible. Functions also with self test or overcurrent limit for the sensors' semiconductor outputs

Sensors with testing
For testable ESPE type 2 light curtains

EN 81
Elevator systems / escalators in accord. with EN81-1

Base module of the *samos*® system
for emergency stop, protective doors, safety mats, two-hand control, light curtain monitoring with Muting function for stop categories 0 and 1, AND / OR function.
See the ***samos***® system manual.

Single-channel input circuit
NC contact or semiconductor

Two-channel input circuit
NC contacts or semiconductors

2x two-channel input circuits
in each case NC and NO, e.g. for two-hand control

Two-channel input circuit
NO/NC contacts or semiconductors

2x single channel input circuits
NC contacts or semiconductors

2 safety related enables semiconductors

2 safety related enables semiconductors
OFF-delayed

2 safety related enables relay NO contacts

4 safe enables relay NO contact
OFF-delayed

1 safety related enable relay NO contact
ON-delayed

1 signaling output relay NC contact

Automatic Reset
after application of the voltage and/or after safety request

Manual Reset
in the case of a rising edge at the Reset input after application of the voltage and/or safety request

Reset button monitoring
in the case of a falling edge at the Reset input or dynamic monitoring after application of the voltage and/or safety request

Cross monitoring
between the input circuits

Synchrocheck
with synchronous time during the closing of the safety gate

Synchrocheck
of both channels; synchronous time 0.5 s max.

Modular extension of inputs/outputs and function modules

Input debouncing
through monoflop function. Sensors for rapid tactile applications (safety mats in automatic mode; light curtain on feeds)

Safe OFF-delay

Safe ON-delay

Two-hand control monitoring
Corresponds to type III C in accord. with EN 574-1

Safe isolation between circuits complying with EN 50178

Housing size
22.5 mm

Type	Brief description	Terminals	Rated voltage	Specifi-cation	Part number
samos®					
SA-BM-S1-4EKL-A	Base master module – Switch programming – 8 inputs – 4 SC outputs – 8 functions – OFF-delay	Plug-in screw terminals	DC 24 V	0 - 5s	R1.180.0010.0
				0 - 50s	R1.180.0020.0
				0 - 5min	R1.180.0030.0
SA-BM-S1-4EKL-C		Plug-in spring clamp terminals		0 - 5s	R1.180.0360.0
				0 - 50s	R1.180.0370.0
				0 - 5min	R1.180.0380.0
samos®-HANDBUCH-D, BA000255, German					R1.180.0280.0
samos®-MANUAL, BA000256, English					R1.180.0290.0
safety					
safety-Applikationshandbuch-D, BA00382, German					R1.188.3000.0
safety-Application Manual-EN, BA00383, English					R1.188.3010.0
SNA4043K					
SNA4043K	Base device – single-channel or two-channel activation – automatic Reset – cross monitoring – 3 enables – 1 indicator	Screw terminals, fixed	AC/DC 24 V, 50-60Hz		R1.188.1680.0
			AC 42-48 V, 50-60Hz		R1.188.1690.0
			AC 115-120 V, 50-60Hz		R1.188.1700.0
			AC 230 V, 50-60Hz		R1.188.1710.0
SNA4043K-A		Plug-in screw terminals	AC/DC 24 V, 50-60Hz		R1.188.1810.0
SNA4043K-C		Plug-in spring clamp terminals	AC/DC 24 V, 50-60Hz		R1.188.1940.0
SNA4044K					
SNA4044K	Base device – single-channel or two-channel activation – automatic Reset – cross monitoring – 4 enables	Screw terminals, fixed	AC/DC 24 V, 50-60Hz		R1.188.1730.0
			AC 42-48 V, 50-60Hz		R1.188.1740.0
			AC 115-120 V, 50-60Hz		R1.188.1750.0
			AC 230 V, 50-60Hz		R1.188.1760.0
SNA4044K-A		Plug-in screw terminals	AC/DC 24 V, 50-60Hz		R1.188.1860.0
SNA4044K-C		Plug-in spring clamp terminals	AC/DC 24 V, 50-60Hz		R1.188.1960.0
SNA4063K					
SNA4063K	Base device – single-channel or two-channel activation – manual Reset with Reset button monitoring – cross monitoring – 3 enables – 1 indicator	Screw terminals, fixed	AC/DC 24 V, 50-60Hz		R1.188.1620.0
			AC 42-48 V, 50-60Hz		R1.188.1720.0
			AC 115-120 V, 50-60Hz		R1.188.1420.0
			AC 230 V 50-60Hz		R1.188.1430.0
SNA4063K-A		Plug-in screw terminals	AC/DC 24 V, 50-60Hz		R1.188.1440.0
SNA4063K-C		Plug-in spring clamp terminals	AC/DC 24 V, 50-60Hz		R1.188.1950.0
SNA4064K					
SNA4064K	Base device – single-channel or two-channel activation – manual Reset with Reset button monitoring – Cross monitoring – 4 enables	Screw terminals, fixed	AC/DC 24 V, 50-60Hz		R1.188.1770.0
			AC 42-48 V, 50-60Hz		R1.188.1780.0
			AC 115-120 V, 50-60Hz		R1.188.1790.0
			AC 230 V, 50-60Hz		R1.188.1800.0
SNA4064K-A		Plug-in screw terminals	AC/DC 24 V, 50-60Hz		R1.188.1900.0
SNA4064K-C		Plug-in spring clamp terminals	AC/DC 24 V, 50-60Hz		R1.188.1970.0
SNE4004K					
SNE4004K	Output expansion – 4 enables – 3 indicators	Screw terminals, fixed	AC/DC 24 V, 50-60Hz		R1.188.0520.0
SNE4004K-A		Plug-in screw terminals	AC/DC 24 V, 50-60Hz		R1.188.0590.0
SNE4004K-C		Plug-in spring clamp terminals	AC/DC 24 V, 50-60Hz		R1.188.1980.0
SNE4004KV					
SNE4004KV	Output expansion like SNE 4004K – OFF-delay buffered	Screw terminals, fixed	DC 24 V	0.5s	R1.188.0550.0
				1s	R1.188.0560.0
				2s	R1.188.0570.0
				3s	R1.188.0580.0
SNE4004KV-A		Plug-in screw terminals		0.5s	R1.188.0460.0
				1s	R1.188.0470.0
				2s	R1.188.0480.0
				3s	R1.188.0490.0
SNE4008S					
SNE4008S	Output expansion – 8 enables – 3 indicators	Screw terminals, fixed	AC/DC 24 V 50-60Hz		R1.188.1290.0
SNE4008S-A		Plug-in screw terminals	AC/DC 24 V 50-60Hz		R1.188.1300.0
SNL4062K					
SNL4062K	Base device for BWS type 2 – single-channel or two-channel activation through contacts or semiconductors – automatic and monitored Reset with Reset button monitoring – 2 enables – 1 indicator – cross monitoring	Screw terminals, fixed	DC 24 V		R1.188.0750.1
SNL4062K-A		Plug-in screw terminals	DC 24 V		R1.188.0830.1
SNO2004K					
SNO2004K	Base device – single-channel activation in the supply circuit – automatic and manual Reset without Reset button monitoring – 2 enables		AC/DC 24 V, 50-60Hz		R1.188.0410.3
SNO4003K					
SNO4003K	Base device – single-channel activation in the supply circuitautomatic and manual Reset – with Reset button monitoring – 3 enables – 1 indicator	Screw terminals, fixed	AC/DC 24 V, 50-60Hz		R1.188.0400.1
			AC 115-120 V, 50-60Hz		R1.188.0880.1
			AC 230 V, 50-60Hz		R1.188.0890.1
SNO4003K-A		Plug-in screw terminals	AC/DC 24 V, 50-60Hz		R1.188.0500.1
SNO4003K-C		Plug-in spring clamp terminals	AC/DC 24 V, 50-60Hz		R1.188.1990.0

Type	Brief description	Terminals	Rated voltage	Specifi-cation	Part number
SNO4062K					
SNO4062K	Base device – single-channel or two-channel activation – automatic and manual Reset with Reset button monitoring – short-circuit detection – 2 enables – 1 indicator	Screw terminals, fixed	AC/DC 24 V, 50-60Hz		R1.188.0690.2
SNO4062K-A		Plug-in screw terminals	AC/DC 24 V, 50-60Hz		R1.188.0700.2
SNO4062K-C		Plug-in spring clamp terminals	AC/DC 24 V, 50-60Hz		R1.188.2000.0
SNO4062KM					
SNO4062KM	Base device like SNO 4062K – specially for light curtains and short-circuit forming safety mats (4-wire technology)	Screw terminals, fixed	AC/DC 24 V, 50-60Hz		R1.188.0710.2
SNO4062KM-A		Plug-in screw terminals	AC/DC 24 V, 50-60Hz		R1.188.0720.2
SNO4063K	Base device – single-channel or two-channel activation – automatic and manual Reset – with Reset button monitoring – cross monitoring – 3 enables	Screw terminals, fixed	AC/DC 24 V, 50-60Hz		R1.188.0960.0
			DC 12 V		R1.188.1110.0
			AC 115-120 V, 50-60Hz		R1.188.0970.0
			AC 230 V, 50-60Hz		R1.188.0980.0
SNO4063K-A		Plug-in screw terminals	AC/DC 24 V, 50-60Hz		R1.188.0990.0
SNO4063KM	Base device like SNO 4063K – specially for light curtains and short-circuit forming safety mats (4-wire technology)	Screw terminals, fixed	AC/DC 24 V, 50-60Hz		R1.188.1270.0
SNO4063KM-A		Plug-in screw terminals	AC/DC 24 V, 50-60Hz		R1.188.1280.0
SNO5002K	Base device – single-channel activation in the supply circuit – automatic and manual Reset with Reset button monitoring – 2 enables – 1 indicator – safe isolation of control and output circuit	Screw terminals, fixed	DC 12 V		R1.188.1650.0
			DC 24 V		R1.188.1360.0
			AC 115-120 V, 50-60Hz		R1.188.1370.0
			AC 230 V, 50-60 Hz		R1.188.1350.0
SNT4M63K					
SNT4M63K	Protective door monitor – two-channel activation – activation NC/NO or NC/NC – synchrocheck – automatic and manual Reset – with Reset button monitoring – 3 enables	Screw terminals, fixed	AC/DC 24 V, 50-60Hz		R1.188.1020.0
			AC 115-120 V, 50-60Hz		R1.188.1030.0
			AC 230 V, 50-60Hz		R1.188.1040.0
SNT4M63K-A		Plug-in screw terminals	AC/DC 24 V, 50-60Hz		R1.188.1050.0
SNV4063KL					
SNV4063KL	Base device – single-channel or two-channel activation through contacts or semiconductors – automatic and manual Reset – with Reset button monitoring – 2 immediate enables – 1 enable OFF-delayed	Screw terminals, fixed	DC 24 V	0.15 - 3s	R1.188.0610.0
			DC 24 V	1.5 - 30s	R1.188.0630.0
SNV4063KL-A		Plug-in screw terminals	DC 24 V	0.15 - 3s	R1.188.0620.0
			DC 24 V	1.5 - 30s	R1.188.0640.0
SNV4063KL-C		Plug-in spring clamp terminals	DC 24 V	0.15 - 3s	R1.188.2010.0
SNV4063KP					
SNV4063KP	Base device – single-channel or two-channel activation through contacts or semiconductors – automatic and manual Reset – with Reset button monitoring – 2 immediate enables – 1 enable ON-delayed	Screw terminals, fixed	DC 24 V	0.15 - 3s	R1.188.0650.0
			DC 24 V	1.5 - 30s	R1.188.0670.0
SNV4063KP-A		Plug-in screw terminals	DC 24 V	0.15 - 3s	R1.188.0660.0
			DC 24 V	1.5 - 30s	R1.188.0680.0
SNV4074SL	Base device – single-channel or two-channel activation through contacts or semiconductors – automatic and manual Reset, with Reset button monitoring – 2 immediate enables – 2 enables OFF-delayed without re-triggering – 2 signaling contacts with immediate response – 2 signaling contacts delayed	Screw terminals, fixed	DC 24 V	0 - 3s	R1.180.2120.0
				0 - 30s	R1.180.2150.0
				0 - 300s	R1.180.2180.0
			AC 115-230 V 50-60Hz	0 - 3s	R1.180.2300.0
				0 - 30s	R1.180.2330.0
				0 - 300s	R1.180.2360.0
SNV4074SL-A		Plug-in screw terminals	DC 24 V	0 - 3s	R1.180.2130.0
SNV4074SL-C		Plug-in spring clamp terminals		0 - 3s	R1.188.2140.0
SNV4074ST					
SNV4074ST	Safe timer relay – ON-delay – automatic and manual Reset – with Reset button monitoring – 2 NO with immediate response – 2 NO ON-delayed, – 2 NC with immediate response – 2 NC ON-delayed	Screw terminals, fixed	AC 115-230 V 50-60Hz	0.3 - 3s	R1.188.2730.0
				0 - 30s	R1.188.2760.0
				0 - 300s	R1.188.2790.0
SNV4076SL					
SNV4076SL	Base device – single-channel or two-channel activation through contacts or semiconductors – automatic and manual Reset – with Reset button monitoring – 3 immediate enables – 3 enables OFF-delayed, without re-triggering – 1 signaling contact with immediate response	Plug-in screw terminals	DC 24 V	0 - 3s	R1.180.2030.0
				0 - 30s	R1.180.2060.0
				0 - 300s	R1.180.2090.0
			AC 115-230 V 50-60Hz	0 - 3s	R1.180.2210.0
				0 - 30s	R1.180.2240.0
				0 - 300s	R1.180.2270.0
SNV4076SL-A		Plug-in screw terminals	DC 24 V	0 - 3s	R1.180.2040.0
SNV4076SL-C		Plug-in spring clamp terminals		0 - 3s	R1.188.2150.0
SNV4274SL					
SNV4274SL	Safe timer relay – OFF delay with re-triggering – automatic and manual Reset – with Reset button monitoring – 2 NO with immediate response – 2 NO OFF-delayed – 2 NC with immediate response – 2 NC OFF-delayed	Screw terminals, fixed	AC 115-230 V 50-60Hz	0.3 - 3s	R1.188.2640.0
				0 - 30s	R1.188.2670.0
				0 - 300s	R1.188.2700.0
SNZ4052K					
SNZ4052K	Base device – two-channel activation; 2x NC/NO start inhibit – cross monitoring – synchronous time monitoring – 2 enables – 1 indicator	Screw terminals, fixed	AC/DC 24 V 50-60Hz		R1.188.0450.1
			AC 115-120 V 50-60Hz		R1.188.0920.1
			AC 230 V 50-60Hz		R1.188.0930.1
SNZ4052K-A		Plug-in screw terminals	AC/DC 24 V 50-60Hz		R1.188.0530.1
SNZ4052K-C		Plug-in spring clamp terminals	AC/DC 24 V 50-60Hz		R1.188.2020.0

Additional items with plug-in terminals for screw or spring clamp available upon request

Replacement device types

This list includes devices that are no longer available for delivery, or that should no longer be used in new systems. The part numbers of the replacement types are indicated in the list on pages 7 and 8.

Data sheets are available at **www.wieland-electric.com** -->
Info service --> Download Center --> safety technology
or can be ordered via the hotline **+49 (951) 93 24-9 99**.

Device type	Replacement type	Remark
SNO1022-x	SNA4043K / SNA4063K	Note the rated voltage and terminal design
SNO1004-x	SNA4043K / SNA4063K	Note the rated voltage and terminal design
SNO1005-x	SNA4043K / SNA4063K	Note the rated voltage and terminal design
SNO2001-115	SNO4063K, AC 115 –120 V	Note the terminal design
SNO2001-120	SNO4063K, AC 115 –120 V	Note the terminal design
SNO2001-17	SNO4062K	Note the terminal design
SNO2001-230	SNO4063K, AC 230 V	Note the terminal design
SNO2003-120	SNO4063K	Note the rated voltage and terminal design
SNO2003-17	SNO4062K	Note the terminal design
SNO2003-230	SNO4063K, AC 230 V	Note the terminal design
SNO2003-24	SNO4062K	Note the terminal design
SNO2003-x	SNA4043K / SNA4063K	Note the rated voltage and terminal design
SNO2004-17	SNO2004K	
SNO2010-x	SNV4076SL	Note the rated voltage and terminal design
SNO2011-x	SNV4076SL	Note the rated voltage and terminal design
SNO2012-x	SNV4076SL	Note the rated voltage and terminal design
SNO3001-x	SNE4004K / SNA4044K	Note the rated voltage and terminal design
SNO3002-17	SNE4004KV	Note the terminal design and fixed time
SNO3004-x	SNO4003K / SNE4004K	Note the rated voltage and terminal design
SNO40X2.1K	SNO4062K	Note the terminal design
SNO40X2K	SNO4062K	Note the terminal design
SNO5001.1K	SNO5002K	Note the rated voltage
SNO5001K	SNO5002K	Note the rated voltage
SNO5002.1K	SNO5002K	Note the rated voltage
SNT1003-x	SNT4M63K / SNA4043K	Note the rated voltage and terminal design
SNT4053K	SNA4043K	Note the rated voltage, terminal design and start inhibit
SNT4453K	SNT4M63K	Note the rated voltage, terminal design and start inhibit
SNV2021-17	SNV4074SL	Note the rated voltage and terminal design
SNV2022-17	SNV4074SL	Note the rated voltage and terminal design
SNZ5052K	SNZ4052K	Note the rated voltage and terminal design

Notice:
Technical data, terminal name, terminal location and housings of the replacement types may be different. Please consult the data sheets!

wieland

Electrical
Connections

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AT Wieland

Components and system components for the control cabinet

- DIN rail terminal blocks
  - with screw connection
  - with spring clamp connection
  - with IDC connection
- Safety
  - Safety relays
  - Modular safety systems
- Fieldbus components
- Interface
  - Power supplies
  - Overvoltage protection
  - Measuring and monitoring relays
  - Time and switching relays
  - Coupling relays/solid state relays
  - Analog modules
  - Passive interfaces

Components and system components for field applications

- Remote automation
  - Remote power distribution
  - Remote fieldbus interface
- Industrial multipole connectors
  - Modular multipole connectors
  - High-density multipole connectors
  - High-current multipole connectors
  - Multipole connectors for hazardous areas
  - Bushings for control cabinets
  - D-Sub connectors
- Round connectors

Empty housings and appliance connectors/terminal strips

AT Schleicher

- PLC systems and CNC based control systems
- Operator panels
- Application engineering & system solutions
- Customized products

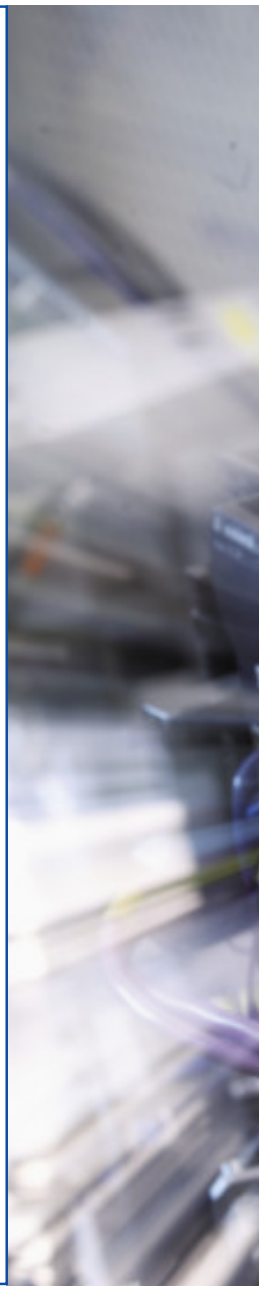
BIT Wieland

- Building installation systems
  - Mains connectors IP20/IP65...IP68
  - Bus connectors
  - Combined connectors
  - Low-voltage connectors
  - Flexible flat cable systems
  - Distribution systems
  - Switching devices for EIB/KNX, LON, radio control
  - DIN rail terminal blocks for electrical installations
  - Overvoltage protection

PCB connectors Wieland

PC board connectors

- PC board connectors
  - with screw connection
  - with spring clamp connection
  - with TOP connection



P r o d u c t R a n g e