Safety Products

Safety for all applications
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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. rated switching voltage</td>
<td>AC/DC 230 V</td>
</tr>
<tr>
<td></td>
<td><em>samos®</em>: DC 24 V</td>
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<tr>
<td>Max. continuous current per current path</td>
<td>6 A</td>
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<tr>
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<td>SNA: 8 A</td>
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<td><em>samos®</em>: 2 A</td>
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<tr>
<td>Housing/Terminals degree of protection</td>
<td>IP 40 / IP 20</td>
</tr>
<tr>
<td>Control cabinet installation</td>
<td>on EN 50022 DIN rail</td>
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<td>Ambient temperature</td>
<td>–25 to +55 °C</td>
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<td>SNA: –25 to +65 °C</td>
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<td><em>samos®</em>, SNA, SNV4x7xSx:</td>
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<td>Approvals</td>
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<td>Type</td>
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<td>Safety applications</td>
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<tr>
<td>Category device</td>
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<tr>
<td>Input circuits</td>
<td></td>
</tr>
<tr>
<td>Safe enables</td>
<td></td>
</tr>
<tr>
<td>Message outputs</td>
<td></td>
</tr>
<tr>
<td>Rated voltage</td>
<td></td>
</tr>
<tr>
<td>Automatic Reset</td>
<td></td>
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<tr>
<td>Reset w/o monitoring</td>
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<td>Reset with monitoring</td>
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<tr>
<td>Short-circuit monitoring</td>
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<tr>
<td>Synchro-check</td>
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<tr>
<td>Special features</td>
<td></td>
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<tr>
<td>Housing size</td>
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</table>

- **Safety applications**
- **Category device**
- **Input circuits**
- **Safe enables**
- **Message outputs**
- **Rated voltage**
- **Automatic Reset**
- **Reset w/o monitoring**
- **Reset with monitoring**
- **Short-circuit monitoring**
- **Synchro-check**
- **Special features**
- **Housing size**
<table>
<thead>
<tr>
<th>Type 4</th>
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* See the table on page 8 for additional types with ON delay and OFF delay with re-triggering

** Specifications:**
- DC 12 V
- DC 24 V
- AC 115-120 V
- AC 230 V
- AC/DC 24 V
- AC 115-230 V
- AC/DC 24 V
- AC 115-230 V
- AC 115-120 V
- AC 230 V
- AC/DC 24 V
- DC 24 V
- AC/DC 24 V
- DC 24 V
- AC/DC 24 V

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</table>
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**
each in 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

**4 safety 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

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

**EN 81**
elevator systems / escalators
in accord. with EN81-1
<table>
<thead>
<tr>
<th>Type</th>
<th>Brief description</th>
<th>Terminals</th>
<th>Rated voltage</th>
<th>Specification</th>
<th>Part number</th>
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<tbody>
<tr>
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<tr>
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<td>SNA4043K-A</td>
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<td>AC/DC 24 V, 50-60Hz</td>
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<td>AC/DC 24 V, 50-60Hz</td>
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</tr>
<tr>
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<td>AC/DC 24 V, 50-60Hz</td>
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<td>SNE4004K</td>
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<td>AC/DC 24 V, 50-60Hz</td>
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<td></td>
</tr>
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<tr>
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<td>AC 230 V, 50-60Hz</td>
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<td>SNE4004KV-A</td>
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<td>AC/DC 24 V, 50-60Hz</td>
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<td>SNE4008S-A</td>
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<td>AC/DC 24 V, 50-60Hz</td>
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<td>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</td>
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<td>AC/DC 24 V</td>
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<td>SNO2004K</td>
<td>Base device – single-channel activation in the supply circuit – automatic and manual Reset without Reset button monitoring – 2 enables</td>
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<td>AC/DC 24 V, 50-60Hz</td>
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</table>

**Note**: The table includes various types of devices with different specifications and part numbers. The data includes details about the type of terminals used, rated voltage, and specific functionalities such as OFF-delay, 8 functions, 4 SC outputs, 8 inputs, switch programming, 4 enables, cross monitoring, automatic Reset, single-channel or two-channel activation, and application notes in English and German.
Base device
- single-channel or two-channel activation – automatic and manual Reset with Reset button monitoring – short-circuit detection – 2 enables – 1 indicator

Terminals
Screw terminals, fixed
Plug-in screw terminals
Plug-in spring clamp terminals

Rated voltage
AC/DC 24 V, 50-60 Hz
AC/DC 24 V, 50-60 Hz
AC/DC 24 V, 50-60 Hz

Specification
Part number
R1.188.0690.2
R1.188.0700.2
R1.188.2000.0

Base device like SNO 4062K
- specially for light curtains and short-circuit forming safety mats (4-wire technology)

Terminals
Screw terminals, fixed
Plug-in screw terminals

Rated voltage
AC/DC 24 V, 50-60 Hz
AC/DC 24 V, 50-60 Hz

Specification
Part number
R1.188.0710.2
R1.188.0720.2

Base device
- single-channel or two-channel activation
- automatic and manual Reset
- cross monitoring – 3 enables

Terminals
Screw terminals, fixed

Rated voltage
DC 12 V
AC 115-120 V, 50-60 Hz
AC 230 V, 50-60 Hz

Specification
Part number
R1.188.0960.0
R1.188.0970.0
R1.188.0980.0

Base device like SNO 4063K – specially for light curtains and short-circuit forming safety mats (4-wire technology)

Terminals
Screw terminals, fixed
Plug-in screw terminals
Plug-in spring clamp terminals

Rated voltage
AC/DC 24 V, 50-60 Hz
AC/DC 24 V, 50-60 Hz
AC/DC 24 V, 50-60 Hz

Specification
Part number
R1.188.1270.0
R1.188.1280.0
R1.188.1290.0

Plug-in screw terminals

Rated voltage
DC 12 V
AC 230 V, 50-60 Hz

Specification
Part number
R1.188.1650.0
R1.188.1360.0
R1.188.1370.0
R1.188.1380.0

Plug-in screw terminals

Rated voltage
DC 24 V
AC 230 V, 50-60 Hz

Specification
Part number
R1.188.0610.0
R1.188.0620.0
R1.188.0640.0
R1.188.2010.0

Plug-in screw terminals

Rated voltage
DC 24 V

Specification
Part number
R1.188.0650.0
R1.188.0660.0
R1.188.0670.0
R1.188.0680.0

Plug-in screw terminals

Rated voltage
DC 24 V

Specification
Part number
R1.188.2120.0
R1.188.2150.0
R1.188.2180.0
R1.188.2300.0
R1.188.2330.0
R1.188.2360.0

Plug-in screw terminals

Rated voltage
DC 24 V

Specification
Part number
R1.188.2130.0
R1.188.2140.0

Plug-in screw terminals

Rated voltage
DC 24 V

Specification
Part number
R1.188.2730.0
R1.188.2760.0
R1.188.2790.0

Plug-in screw terminals

Rated voltage
DC 24 V

Specification
Part number
R1.188.2030.0
R1.188.2060.0
R1.188.2090.0
R1.188.2210.0
R1.188.2240.0
R1.188.2270.0

Plug-in screw terminals

Rated voltage
DC 24 V

Specification
Part number
R1.188.2640.0
R1.188.2670.0
R1.188.2700.0

Plug-in screw terminals

Rated voltage
AC 115-230 V, 50-60 Hz

Specification
Part number
R1.188.0450.1
R1.188.0920.1
R1.188.0930.1
R1.188.0530.1
R1.188.2020.0

Base device
- single-channel or two-channel activation
- cross monitoring
- automatic and manual Reset
- 2 enables – 1 indicator

Terminals
Screw terminals, fixed
Plug-in screw terminals
Plug-in spring clamp terminals

Rated voltage
AC/DC 24 V, 50-60 Hz
AC/DC 24 V, 50-60 Hz
AC/DC 24 V, 50-60 Hz

Specification
Part number
R1.188.0450.1
R1.188.0920.1
R1.188.0930.1
R1.188.0530.1
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.

<table>
<thead>
<tr>
<th>Device type</th>
<th>Replacement type</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNO1022-x</td>
<td>SNA4043K / SNA4063K</td>
<td>Note the rated voltage and terminal design</td>
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<td>SNO1004-x</td>
<td>SNA4043K / SNA4063K</td>
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<td>SNO2001-115</td>
<td>SNO4063K, AC 115 –120 V</td>
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<td>SNO2001-120</td>
<td>SNO4063K, AC 115 –120 V</td>
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<td>SNO2001-17</td>
<td>SNO4062K</td>
<td>Note the terminal design</td>
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<tr>
<td>SNO2001-230</td>
<td>SNO4063K, AC 230 V</td>
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<td>SNO4063K</td>
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<td>SNO2003-17</td>
<td>SNO4062K</td>
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<td>SNO2003-230</td>
<td>SNO4063K, AC 230 V</td>
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<td>SNV4076SL</td>
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<td>SNV4076SL</td>
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<tr>
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<td>SNE4004K / SNA4044K</td>
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<td>SNE-4004K</td>
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<td>SNO4003K / SNE4004K</td>
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<tr>
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<td>SNO4062K</td>
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<td>SNT4M63K</td>
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</table>

Notice:
Technical data, terminal name, terminal location and housings of the replacement types may be different.
Please consult the data sheets!
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
  – with screw connection
  – with spring clamp connection
  – with TOP connection