

**safety**



**wieland**



***safety* from A to Z**  
Product Portfolio 2017





## Fit for *safety* with Wieland

### Safety Technology from A to Z

Wieland supports and advises you – from the planning stage right through to start-up – throughout the entire life cycle of a machine or production system. The broad portfolio of safety switching devices covers all important safety functions and fulfills even complex customer requirements.

### SISTEMA – safety of machine controls

The **SISTEMA** software provides developers and testers of safety-related machine controls with comprehensive support when assessing safety within the scope of **EN ISO 13849-1**.

The name **SISTEMA** comes from the German “**S**icherheit von **ST**eueringen an **MA**schinen” (safety of machine controls). The tool allows you to reproduce the structure of the safety-related control elements on the basis of the intended architectures and then enables an automated calculation of the reliability values at various levels of detail, including the performance level (PL) attained.

### Training & Support

Wieland Electric offers a range of workshops about the topic of machine safety.

The training covers hazard and risk analysis, definition of the necessary safety functions using the **SISTEMA** tool and support for selecting and implementing the necessary technical safety measures.

We provide our safety workshops and product training sessions both as in-house training and as a workshop at our modern Sales and Marketing Center in Bamberg.

- Risk assessment and risk reduction in accordance with EN 12100
- Definition of technical safety measures
- Assessment of safety functions (SISTEMA)
- Product training
- Training for *samos*<sup>®</sup>PLAN 6
- Seminar Certified Safety Engineer (in collaboration with SGS-TUEV Saar)

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# Overview of safety technology

From the **sensor**<sup>PRO</sup> safety sensors to the **safe**<sup>RELAY</sup> safety relay family and the modular **samos**<sup>®</sup> safety modules to the **samos**<sup>®</sup>**PRO** safety controllers, Wieland Electric offers the right product for your needs.



Safe signal acquisition  
**sensor**<sup>PRO</sup>

Universal safety relays  
**safe**<sup>RELAY</sup>



Modular safety modules  
**samos**<sup>®</sup>

Compact safety controllers  
**samos**<sup>®</sup> PRO COMPACT



## Tested technology

Of course, Wieland Electric offers only thoroughly tested and certified safety technology (i.e., all technical safety products have been approved by recognized testing institutes and meet current regulations and standards).

## Overview – Basic devices

Type	SNO 4083KM	SNO 4062K/KM	SNO 4063K/KM	SNA 4043K/KM	SNA 4044K/KM	SNA 4063K/KM	SNA 4064K/KM
Page	34	36	38	40	40	42	42
Application							
Input Circuits							
Start							
Contacts							
Characteristics							
Rated voltage DC (V)	24	24	12 24	24	24	24	24
Rated voltage AC (V)	115-230		24 115-120 230	24 115-120 230	24 115-120 230	24 115-120 230	24 115-120 230

<sup>1)</sup> PLe contact expansion

<sup>2)</sup> 24 V devices only

<sup>3)</sup> possible only in isolated cases and according to the risk assessment of the machine functions

	SNO 4003K	SNO 1012K	SNS 4074K/4084K	SVM 4001K	SNT 4M63K	SNZ 4052K	SNZ 1022K
	44	46	48	50	52	54	56
	24	24	24	24	24	24	24
	24 115-120 230	24			24 115-120 230	24 115-120 230	24 115-230

For glossary, see page 11

# Overview – Basic devices with time function

Type	SNV 4063KL	SNV 4063KP	SNV 4074SL	SNV 4076SL	SNV 4274SL	SNV 4074ST		
Page	58	60	62	62	64	64		
Application								
Input Circuits								
Start								
Contacts								
Characteristics								
Rated voltage DC (V)	24	24	24	24	24	24		
Rated voltage AC (V)			115-230	115-230	115-230	115-230		

<sup>1)</sup> applies to undelayed contacts; the following applies to delayed contacts: PL d / category 3 / SILCL 2

<sup>2)</sup> depends on the category of the basic device or the safety analysis

# Contact expansion relays

	SNE 1	SNE 4003K	SNE 4004K	SNE 4004KV	SNE 4012K	SNE 4024K	SNE 4028S
	66	68	70	70	72	72	74
	24	24	24	24	24	24	24
			24				24 115-230

For glossary, see page 11

## Excerpt from the product range

### “Safe System Solutions for Automation Technology”

#### Basic devices

Type	Remarks	Rated voltage	Terminals	Part number
<b>SNO 4083KM-A</b>	1.5 s	24 V DC	Screw terminals, pluggable	R1.188.3580.0
SNO 4083KM-A	1.5 s	115-230 V AC	Screw terminals, pluggable	R1.188.3590.0
SNO 4083KM-C	1.5 s	24 V DC	Push-in terminals, pluggable	R1.188.3600.0
SNO 4083KM-C	1.5 s	115-230 V AC	Push-in terminals, pluggable	R1.188.3610.0
SNO 4083KM-A	0.5 s	24 V DC	Screw terminals, pluggable	R1.188.3830.0
SNO 4083KM-A	0.5 s	115-230 V AC	Screw terminals, pluggable	R1.188.3840.0
SNO 4083KM-C	0.5 s	24 V DC	Push-in terminals, pluggable	R1.188.3850.0
SNO 4083KM-C	0.5 s	115-230 V AC	Push-in terminals, pluggable	R1.188.3860.0
<b>SNO 4062K-A</b>		24 V AC/DC	Screw terminals, pluggable	R1.188.0700.2
SNO 4062KM-A		24 V AC/DC	Screw terminals, pluggable	R1.188.0720.2
SNO 4062K-C		24 V AC/DC	Push-in terminals, pluggable	R1.188.2000.0
<b>SNO 4063K-A</b>		12 V DC	Screw terminals, pluggable	R1.188.1120.0
SNO 4063K-A		24 V AC/DC	Screw terminals, pluggable	R1.188.0990.0
SNO 4063K-A		230 V AC	Screw terminals, pluggable	R1.188.1010.0
SNO 4063K-C		24 V AC/DC	Push-in terminals, pluggable	R1.188.2450.0
SNO 4063KM-A		24 V AC/DC	Screw terminals, pluggable	R1.188.1280.0
<b>SNA 4043K-A</b>		24 V AC/DC	Screw terminals, pluggable	R1.188.1810.0
SNA 4043K-A		230 V AC	Screw terminals, pluggable	R1.188.1840.0
SNA 4043K-C		24 V AC/DC	Push-in terminals, pluggable	R1.188.1940.0
SNA 4043KM-A		24 V AC/DC	Screw terminals, pluggable	R1.188.3250.0
SNA 4043KM-C		24 V AC/DC	Push-in terminals, pluggable	R1.188.3400.0
<b>SNA 4044K-A</b>		24 V AC/DC	Screw terminals, pluggable	R1.188.1860.0
SNA 4044-A		230 V AC	Screw terminals, pluggable	R1.188.1860.0
SNA 4044K-C		24 V AC/DC	Push-in terminals, pluggable	R1.188.1960.0
SNA 4044KM-A		24 V AC/DC	Screw terminals, pluggable	R1.188.1480.0
SNA 4044KM-C		24 V AC/DC	Push-in terminals, pluggable	R1.188.3410.0
<b>SNA 4063K-A</b>		24 V AC/DC	Screw terminals, pluggable	R1.188.1440.0
SNA 4063K-A		230 V AC	Screw terminals, pluggable	R1.188.1460.0
SNA 4063K-C		24 V AC/DC	Push-in terminals, pluggable	R1.188.1950.0
SNA 4063KM-A		24 V AC/DC	Screw terminals, pluggable	R1.188.3290.0
SNA 4063KM-C		24 V AC/DC	Push-in terminals, pluggable	R1.188.3420.0
<b>SNA 4064K-A</b>		24 V AC/DC	Screw terminals, pluggable	R1.188.1900.0
SNA 4064K-A		230 V AC	Screw terminals, pluggable	R1.188.1930.0
SNA 4064K-C		24 V AC/DC	Push-in terminals, pluggable	R1.188.1970.0
SNA 4064KM-A		24 V AC/DC	Screw terminals, pluggable	R1.188.3360.0
SNA 4064KM-C		24 V AC/DC	Push-in terminals, pluggable	R1.188.3430.0
<b>SNO 4003K-A</b>		24 V AC/DC	Screw terminals, pluggable	R1.188.0500.1
SNO 4003K-A		115-120 V AC	Screw terminals, pluggable	R1.188.0900.1
SNO 4003K-A		230 V AC	Screw terminals, pluggable	R1.188.0910.1
SNO 4003K-C		24 V AC/DC	Push-in terminals, pluggable	R1.188.1990.0
<b>SNO 1012K-A</b>		24 V AC/DC	Screw terminals, pluggable	R1.188.3740.0
SNO 1012K-C		24 V AC/DC	Push-in terminals, pluggable	R1.188.3750.0
<b>SNS 4074K-A</b>	0.5 - 99 Hz	24 V DC	Screw terminals, pluggable	R1.188.3640.0
SNS 4074K-C	0.5 - 99 Hz	24 V DC	Push-in terminals, pluggable	R1.188.3650.0
SNS 4074K-A	0.1 - 9.9 Hz	24 V DC	Screw terminals, pluggable	R1.188.3620.0
SNS 4074K-C	0.1 - 9.9 Hz	24 V DC	Push-in terminals, pluggable	R1.188.3630.0
<b>SNS 4084K-A</b>	0.5 - 99 Hz	24 V DC	Screw terminals, pluggable	R1.188.3480.0
SNS 4084K-C	0.5 - 99 Hz	24 V DC	Push-in terminals, pluggable	R1.188.3490.0
SNS 4084K-A	0.1 - 9.9 Hz	24 V DC	Screw terminals, pluggable	R1.188.3660.0
SNS 4084K-C	0.1 - 9.9 Hz	24 V DC	Push-in terminals, pluggable	R1.188.3670.0
<b>SNT 4M63K-A</b>		24 V AC/DC	Screw terminals, pluggable	R1.188.1050.0
SNT 4M63K-A		230 V AC	Screw terminals, pluggable	R1.188.1070.0
SNT 4M63K-C		24 V AC/DC	Push-in terminals, pluggable	R1.188.2390.0
<b>SNZ 4052K-A</b>	0.5 s	24 V AC/DC	Screw terminals, pluggable	R1.188.0530.1
SNZ 4052K-A	0.5 s	115-120 V AC	Screw terminals, pluggable	R1.188.0940.1
SNZ 4052K-A	0.5 s	230 V AC	Screw terminals, pluggable	R1.188.0950.1
SNZ 4052K-C	0.5 s	24 V AC/DC	Push-in terminals, pluggable	R1.188.2020.0
<b>SNZ 1022K-A</b>	0.5 s	24 V AC/DC	Screw terminals, pluggable	R1.188.3700.0
SNZ 1022K-A	0.5 s	115-230 V AC	Screw terminals, pluggable	R1.188.3710.0
SNZ 1022K-C	0.5 s	24 V AC/DC	Push-in terminals, pluggable	R1.188.3720.0
SNZ 1022K-C	0.5 s	115-230 V AC	Push-in terminals, pluggable	R1.188.3730.0



## Basic devices with time function

Type	Synchronous time	Rated voltage	Terminals	Part number
<b>SNV 4063KL-A</b>	3 s	24 V DC	Screw terminals, pluggable	R1.188.0620.0
SNV 4063KL-A	30 s	24 V DC	Screw terminals, pluggable	R1.188.0640.0
SNV 4063KL-C	3 s	24 V DC	Push-in terminals, pluggable	R1.188.2010.0
SNV 4063KL-C	30 s	24 V DC	Push-in terminals, pluggable	R1.188.3900.0
<b>SNV 4063KP-A</b>	3 s	24 V DC	Screw terminals, pluggable	R1.188.0660.0
SNV 4063KP-A	30 s	24 V DC	Screw terminals, pluggable	R1.188.0680.0

## Basic devices with time function

Type	Time	Rated voltage		Terminals	Part number	
		24 V DC	115-230 V AC		24 V DC	115-230 V AC
<b>SNV 4074SL-A</b>	3 s	24 V DC	115-230 V AC	Screw terminals, pluggable	R1.188.2130.0	R1.188.2310.0
SNV 4074SL-A	30 s	24 V DC	115-230 V AC	Screw terminals, pluggable	R1.188.2160.0	R1.188.2340.0
SNV 4074SL-A	300 s	24 V DC	115-230 V AC	Screw terminals, pluggable	R1.188.2190.0	R1.188.2370.0
SNV 4074SL-C	3 s	24 V DC	115-230 V AC	Push-in terminals, pluggable	R1.188.2140.0	R1.188.2320.0
SNV 4074SL-C	30 s	24 V DC	115-230 V AC	Push-in terminals, pluggable	R1.188.2170.0	R1.188.2350.0
SNV 4074SL-C	300 s	24 V DC	115-230 V AC	Push-in terminals, pluggable	R1.188.2200.0	R1.188.2380.0
<b>SNV 4076SL-A</b>	3 s	24 V DC	115-230 V AC	Screw terminals, pluggable	R1.188.2040.0	R1.188.2220.0
SNV 4076SL-A	30 s	24 V DC	115-230 V AC	Screw terminals, pluggable	R1.188.2070.0	R1.188.2250.0
SNV 4076SL-A	300 s	24 V DC	115-230 V AC	Screw terminals, pluggable	R1.188.2100.0	R1.188.2280.0
SNV 4076SL-C	3 s	24 V DC	115-230 V AC	Push-in terminals, pluggable	R1.188.2050.0	R1.188.2230.0
SNV 4076SL-C	30 s	24 V DC	115-230 V AC	Push-in terminals, pluggable	R1.188.2080.0	R1.188.2260.0
SNV 4076SL-C	300 s	24 V DC	115-230 V AC	Push-in terminals, pluggable	R1.188.2110.0	R1.188.2290.0
<b>SNV 4274SL-A</b>	3 s	24 V DC	115-230 V AC	Screw terminals, pluggable	R1.188.2470.0	R1.188.2650.0
SNV 4274SL-A	30 s	24 V DC	115-230 V AC	Screw terminals, pluggable	R1.188.2500.0	R1.188.2680.0
SNV 4274SL-A	300 s	24 V DC	115-230 V AC	Screw terminals, pluggable	R1.188.2530.0	R1.188.2710.0
SNV 4274SL-C	3 s	24 V DC	115-230 V AC	Push-in terminals, pluggable	R1.188.2480.0	R1.188.2660.0
SNV 4274SL-C	30 s	24 V DC	115-230 V AC	Push-in terminals, pluggable	R1.188.2510.0	R1.188.2690.0
SNV 4274SL-C	300 s	24 V DC	115-230 V AC	Push-in terminals, pluggable	R1.188.2540.0	R1.188.2720.0
<b>SNV 4074ST-A</b>	3 s	24 V DC	115-230 V AC	Screw terminals, pluggable	R1.188.2560.0	R1.188.2740.0
SNV 4074ST-A	30 s	24 V DC	115-230 V AC	Screw terminals, pluggable	R1.188.2590.0	R1.188.2770.0
SNV 4074ST-A	300 s	24 V DC	115-230 V AC	Screw terminals, pluggable	R1.188.2620.0	R1.188.2800.0
SNV 4074ST-C	3 s	24 V DC	115-230 V AC	Push-in terminals, pluggable	R1.188.2570.0	R1.188.2750.0
SNV 4074ST-C	30 s	24 V DC	115-230 V AC	Push-in terminals, pluggable	R1.188.2600.0	R1.188.2780.0
SNV 4074ST-C	300 s	24 V DC	115-230 V AC	Push-in terminals, pluggable	R1.188.2630.0	R1.188.2810.0

## Contact expansion relays

Type	Time	Rated voltage	Terminals	Part number
<b>SNE 4003K-A</b>		24 V AC/DC	Screw terminals, pluggable	R1.188.1340.0
<b>SNE 4004K-A</b>		24 V AC/DC	Screw terminals, pluggable	R1.188.0590.0
SNE 4004K-C		24 V AC/DC	Push-in terminals, pluggable	R1.188.1980.0
<b>SNE 4004KV-A</b>	0.5 s	24 V DC	Screw terminals, pluggable	R1.188.0460.0
SNE 4004KV-A	1 s	24 V DC	Screw terminals, pluggable	R1.188.0470.0
SNE 4004KV-A	2 s	24 V DC	Screw terminals, pluggable	R1.188.0480.0
SNE 4004KV-A	3 s	24 V DC	Screw terminals, pluggable	R1.188.0490.0
SNE 4004KV-C	0,5 s	24 V DC	Push-in terminals, pluggable	R1.188.2410.0
SNE 4004KV-C	1 s	24 V DC	Push-in terminals, pluggable	R1.188.2420.0
SNE 4004KV-C	2 s	24 V DC	Push-in terminals, pluggable	R1.188.2430.0
SNE 4004KV-C	3 s	24 V DC	Push-in terminals, pluggable	R1.188.2440.0
<b>SNE 4028S-A</b>		24 V DC	Screw terminals, pluggable	R1.188.3120.0
SNE 4028S-A		115-230 V	Screw terminals, pluggable	R1.188.3510.0
SNE 4028S-C		24 V DC	Push-in terminals, pluggable	R1.188.3540.0
SNE 4028S-C		115-230 V	Push-in terminals, pluggable	R1.188.3550.0

## Modular safety modules *samos*<sup>®</sup>

Type	Time	Rated voltage	Terminals	Coding	Part number
<b>samos</b> <sup>®</sup>					
SA-BM-S1-4EKL-A	5 s	24 V DC	Screw terminals, pluggable	1	R1.180.0010.0
SA-BM-S1-4EKL-A	50 s	24 V DC	Screw terminals, pluggable	1	R1.180.0020.0
SA-BM-S1-4EKL-A	5 min	24 V DC	Screw terminals, pluggable	1	R1.180.0030.0
SA-BM-S1-4EKL-C	5 s	24 V DC	Push-in terminals, pluggable	1	R1.180.0360.0
SA-BM-S1-4EKL-C	50 s	24 V DC	Push-in terminals, pluggable	1	R1.180.0370.0
SA-BM-S1-4EKL-C	5 min	24 V DC	Push-in terminals, pluggable	1	R1.180.0380.0

## Excerpt from the product range "Safe System Solutions for Automation Technology"

### Compact safety controls **samos**<sup>®</sup>PRO

Type	Rated voltage	Terminals	Remarks	Part number
<b>samos</b> <sup>®</sup> PRO				
SP-COP1-A	24 V DC	Screw terminals, pluggable		R1.190.1110.0
SP-COP1-P-A	24 V DC	Screw terminals, pluggable	PLUS version incl. press function	R1.190.1130.0
SP-COP1-C	24 V DC	Push-in terminals, pluggable		R1.190.1120.0
SP-COP1-P-C	24 V DC	Push-in terminals, pluggable	PLUS version incl. press function	R1.190.1140.0
SP-COP2-EN-A	24 V DC	Screw terminals, pluggable		R1.190.1210.0
SP-COP2-EN-P-A	24 V DC	Screw terminals, pluggable	PLUS version incl. press function	R1.190.1230.0
SP-COP2-EN-C	24 V DC	Push-in terminals, pluggable		R1.190.1220.0
SP-COP2-EN-P-C	24 V DC	Push-in terminals, pluggable	PLUS version incl. press function	R1.190.1240.0
SP-COP2-ENI-A	24 V DC	Screw terminals, pluggable		R1.190.1310.0
SP-COP2-ENI-P-A	24 V DC	Screw terminals, pluggable	PLUS version incl. press function	R1.190.1330.0
SP-COP2-ENI-C	24 V DC	Push-in terminals, pluggable		R1.190.1320.0
SP-COP2-ENI-P-C	24 V DC	Push-in terminals, pluggable	PLUS version incl. press function	R1.190.1340.0
SP-SDIO84-P1-K-A	24 V DC	Screw terminals, pluggable	Input-output module, with output test-pulses	R1.190.0030.0
SP-SDIO84-P1-K-C	24 V DC	Push-in terminals, pluggable	Input-output module, with output test-pulses	R1.190.0040.0
SP-SDIO84-P2-K-C	24 V DC	Push-in terminals, pluggable	Input-output module, without output test-pulses	R1.190.0240.0
SP-SDI8-P1-K-A	24 V DC	Screw terminals, pluggable	Input module	R1.190.0050.0
SP-SDI8-P1-K-C	24 V DC	Push-in terminals, pluggable	Input module	R1.190.0060.0
SP-DIO84-K-A	24 V DC	Screw terminal, pluggable		R1.190.1050.0
SP-DIO84-K-C	24 V DC	Push-in terminal, pluggable		R1.190.1060.0
SP-CANopen	24 V DC	CANopen		R1.190.0210.0
SP-PROFIBUS-DP	24 V DC	PROFIBUS-DP		R1.190.0190.0
SP-EN-ETC	24 V DC	ETHERCAT		R1.190.0160.0

### Accessories **samos**<sup>®</sup>PRO

Type	Remarks	Part number
<b>samos</b> <sup>®</sup> PRO		
SP-COP-CARD1	Memory-card for SP-COP	R1.190.1000.0
SP-CABLE-USB1	USB cable for SP-COP, 1.8 m	R1.190.1010.0
SP-CABLE-ETH1	Ethernet cable for SP-COP, 2 m	R1.190.1020.0
SP-COP-STARTER-SET	Content: SP-COP2-EN-A, SP-COP-CARD1, SP-PLAN6, SP-CABLE-USB1, SP-CABLE-ETH1	R1.190.1100.0
SP-VISUAL-SET	Visualization set (touch panel 3.5" color, SP-CABLE4, software driver)	R1.190.0280.0
HMISTU655	Visualization set (touch panel 3.5" color)	F0.000.0023.0
HMISTU855	Visualization set (touch panel 5.7" color)	F0.000.0023.1
HMISTO501	Visualization set (touch panel 3.5" monochrome)	F0.000.0023.2
SP-COVER	SD card slot cover for SP-COP modules	R1.190.1040.0
SAFETY SCHRAUBKL.SET	Screw terminal set with 4 different codings for 5 devices	99.208.9999.9
SAFETY PUSH IN SET	Push-in terminal set with 4 different codings for 5 devices	99.209.9999.9
WKFN 2,5 E/35 GO-URL	<b>fasis</b> - multi-tier block with diodes	56.703.8755.9
APFN 2,5 E/35	End plate	07.312.7355.0





- For further products and technical information go to [www.wieland-electric.com](http://www.wieland-electric.com) at our e-catalog.
- Our safety hotline **+49 951 93 24-999** and our e-mail-service [safety@wieland-electric.com](mailto:safety@wieland-electric.com) is available to answer all your questions.

More information is available in the **safety** catalog


Order no: 0860.1


# Glossary

 **Emergency stop monitoring**  
Floating contacts


 **Protective gate monitoring**  
Floating contacts

 **Position monitoring**  
Magnetic switch

 **Safety light grid / -light curtain**  
acc. to EN 61496 BWS Type 4 / Type 2

 **Two-hand control**  
according to EN 574


 **Controlled Stop**  
according to EN 60204-1 stop category 1

 **Standstill and motion monitoring**


 **Safety shut-off mat monitoring**  
(4-wire principle, short-circuiting)


 **Valve position monitoring**


 **Contact expansion**

 **Machine building industry**

 **Press**

 **Elevator systems**  
in accord. with EN 81-1

 **Combustion plants**  
according to EN 50156-1

 **Process technology**  
according to IEC 61511


 **Finger protection**


 **Hand protection**

 **Arm protection**


 **Access protection**

 **Personal protection**


 **Single-channel input circuit**  
1 NC contact or semiconducto


 **Two-channel input circuit**  
2 NC contacts or semiconductors


 **Two-channel input circuit, antivalent**  
1 NO / 1 NC contacts or semiconductors


 **Cross monitoring**  
between two input circuits


 **Synchro-check**  
between two input circuits

 **Safe Start**  
Start command is accepted only when the input circuits are closed

 **Combi-reset**  
Automatic start possible after voltage failure, based on the risk analysis


 **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

 **Reset button monitoring**  
in the case of a falling edge at the reset input

 **Contacts (NO/NC)**  
safe semiconductor outputs


 **Alarm contacts**

 **Safe changeover contacts**

 **Safe semi conductor outputs**

 **Safe OFF-delay**

 **Safe ON-delay**

 **Monoflop**  
for rapid tactile applications

 **Reset of time lapse**  
for OFF-delayed contacts

 **Expanded diagnostics**



wieland



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