samos® PRO COMPACT
The safety control
of the next generation
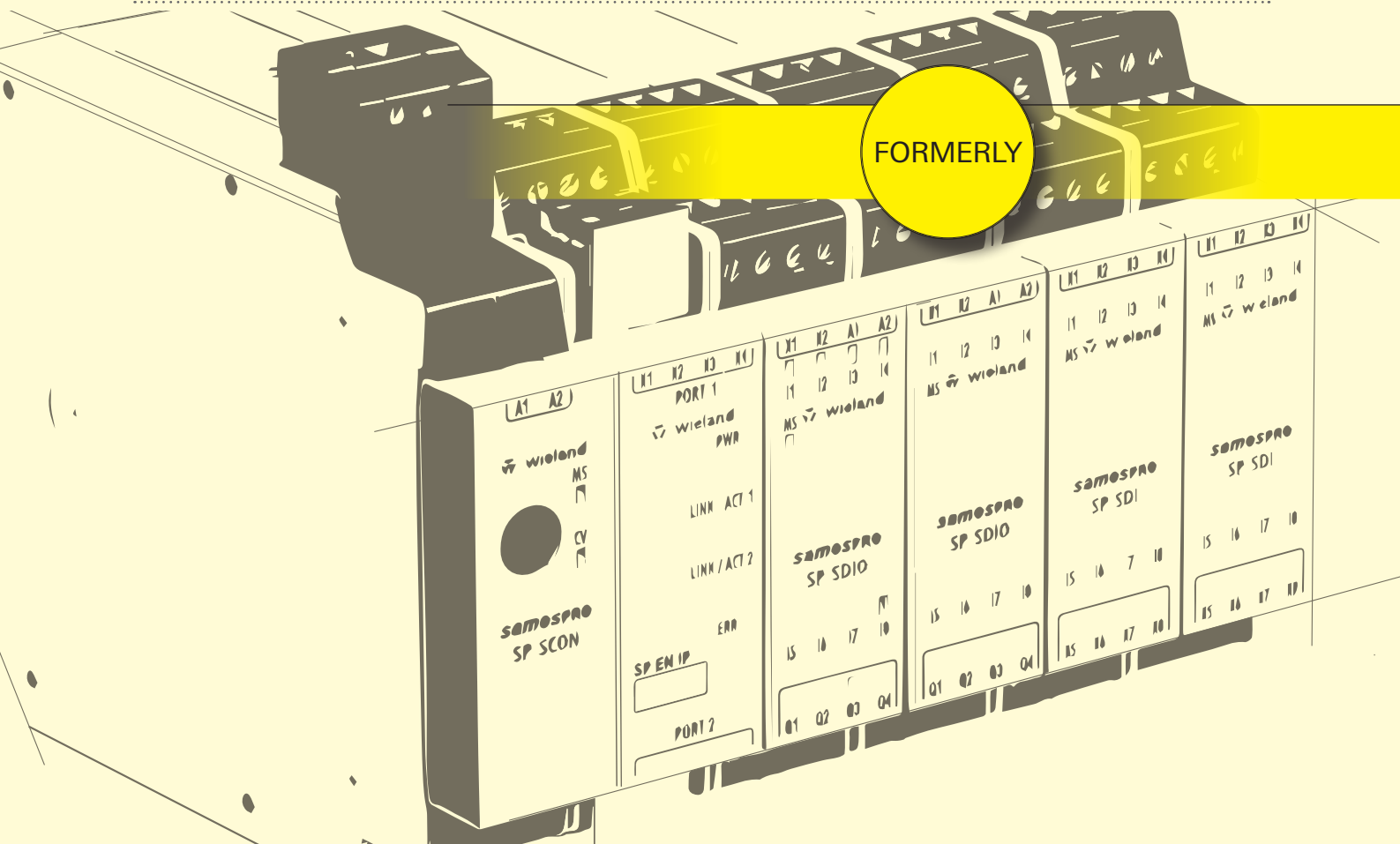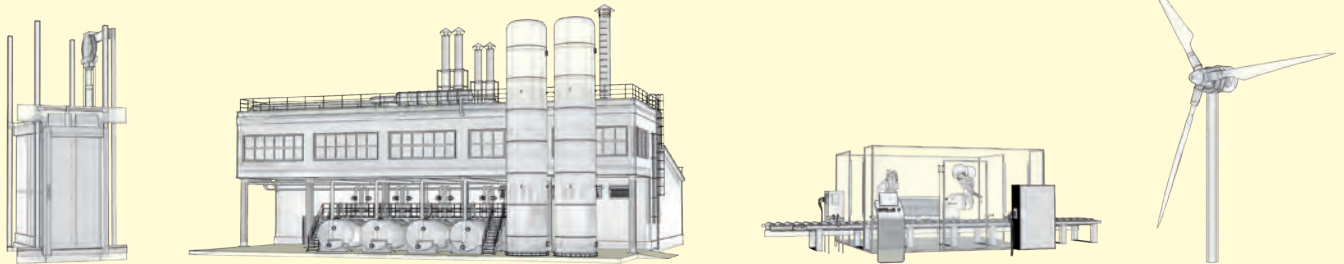
Because it really does come down to size ...

In the control cabinet in all industries **so far**.

FORMERLY

The project planning tool **samos**®PLAN 6 for **samos**® PRO COMPACT now offers users still more support, directly extending through all life phases of a machine.

- Comprehensive library of reliable, certified function blocks
- Configurable project documentation at the press of a button
- Integrated simulation and logic analysis of the safety functions
- Convenient integration in the fieldbus and Ethernet networks
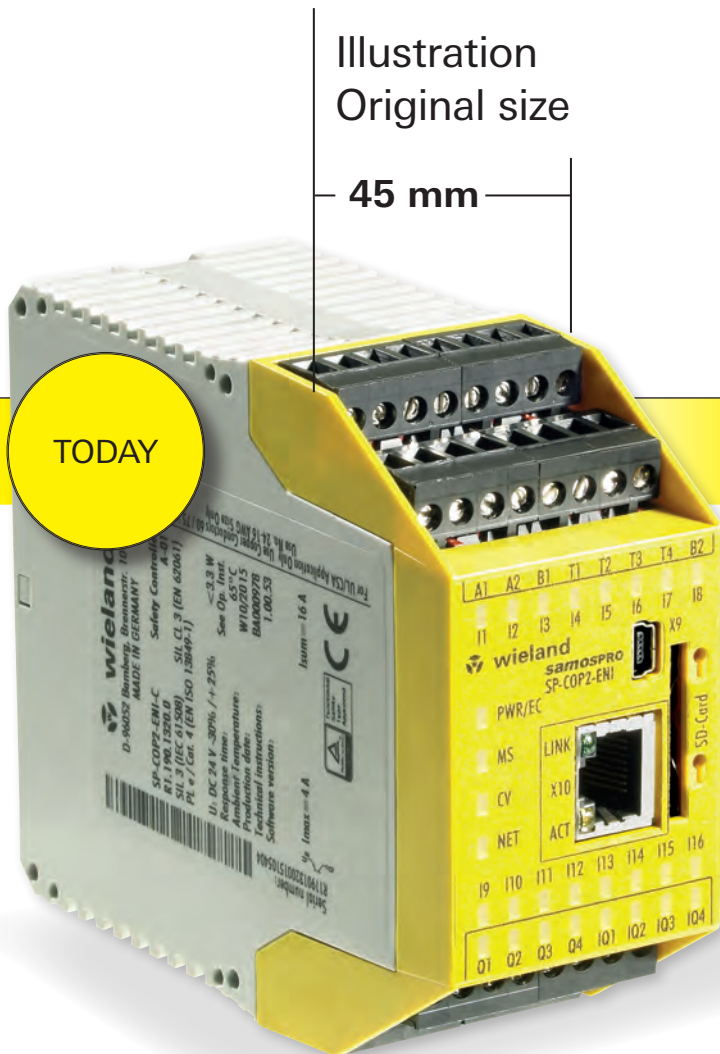- Online diagnosis and remote maintenance for more transparency

samos® PRO COMPACT
The safety control of the next generation
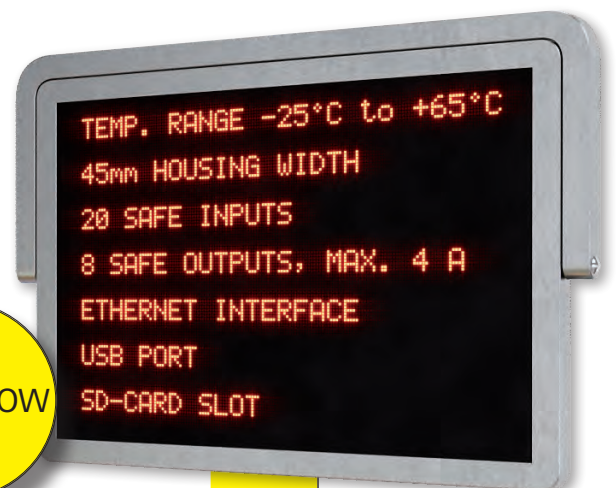
From **today** on and in the **future**!

Illustration
Original size

45 mm

TODAY

TOMORROW

TEMP. RANGE -25°C to +65°C
45mm HOUSING WIDTH
20 SAFE INPUTS
8 SAFE OUTPUTS, MAX. 4 A
ETHERNET INTERFACE
USB PORT
SD-CARD SLOT

POWER
in SAFETY
★★★★★

samos® PRO COMPACT innovativ - compact - safe

samos®PRO COMPACT PLUS

The new PLUS variants of samos®PRO offer enhanced functionality, such as certified function blocks for the safe automation of mechanical or hydraulic presses.

Universal and future-proof
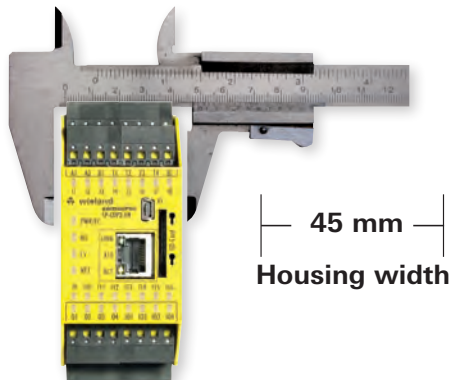
45 mm —
Housing width

Compact power pack

16 safe inputs, 4 safe outputs and 4 switchable safe in-/outputs on a construction width of 45 mm solve many safety tasks – a safety control of the new generation for universal automation tasks today and in the future.

Well networked

Industrial Ethernet protocols are available right from the start and fieldbus gateways can be extended as needed – integrated connection in the most widely varying industrial networks is a decisive advantage of the system.


Modular extendability

For comprehensive applications, the system can be extended with additional modules to as many as 116 secure inputs and 56 secure outputs – ideal precondition for flexible, secure automation, even for larger machines and systems.

NEW press function

Certified expertise

The comprehensive library of certified, tried and tested function blocks makes it easier to realize all safety functions – over 40 different functions are available at any time and with no additional programming effort.
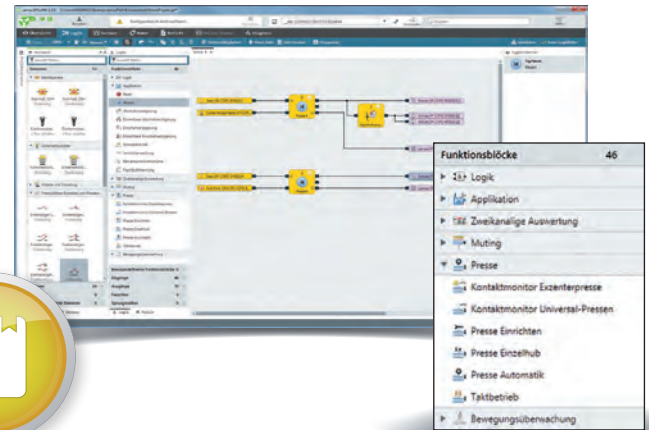
Globally accessible

Remote maintenance can be easily realized in the system without the additional effort that is typical with other systems – with the integrated online diagnosis and the system log book, problems in global operation are quickly localized and expensive maintenance calls are avoided.
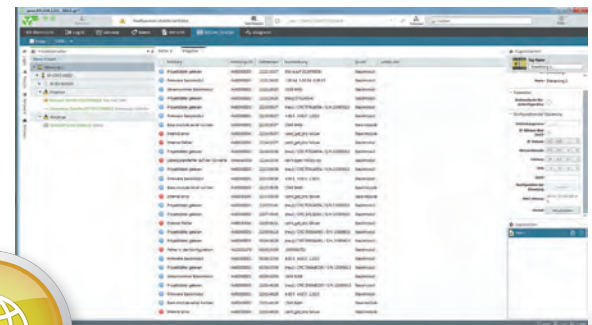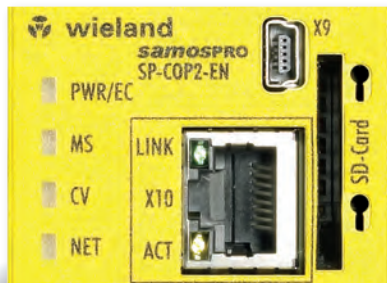
Individually adaptable

Even user-specific sensors and function blocks can be defined and managed in libraries as needed – no other system offers greater multi-functionality.
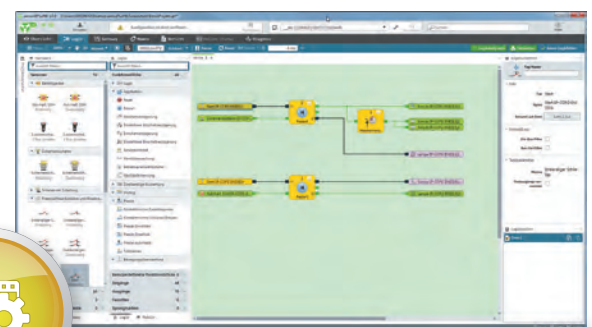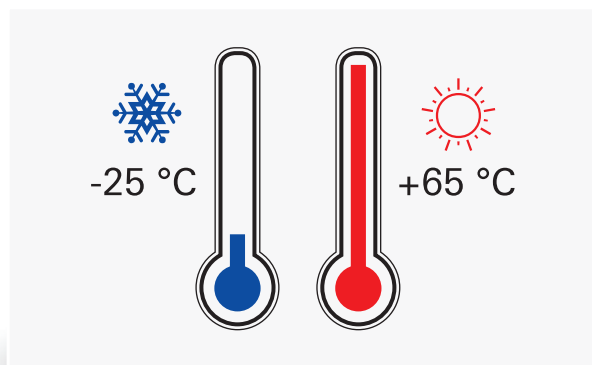
For a safe press operation *samos*®PLAN6 provides 6 efficient function blocks.

Communicative and powerful

Integrated interfaces

Integrated USB and Ethernet interfaces enable custom-tuned access to the system – this means more transparency for the user during the project planning phase and in operation.

Conceived for the toughest requirements

The exceptionally wide ambient temperature range from -25 °C to +65 °C provides security for all applications – use even under extreme ambient conditions is now made possible for the first time.

-25 °C   +65 °C
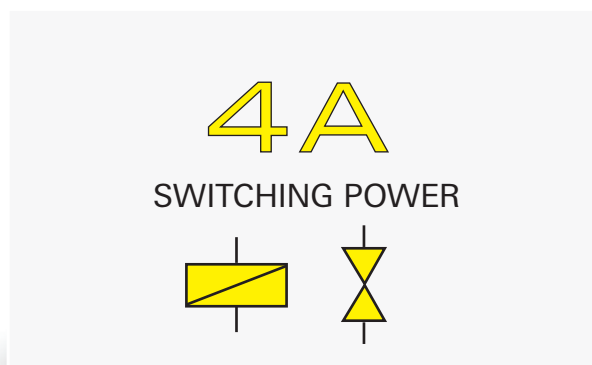
High switching power

4 A non-wearing switching power at each individual output of the system – no other safety control offers this kind of switching performance. High performance alternative to contactors and relays.

4A
SWITCHING POWER

Simple communication

Thanks to convenient support in the tool, all industrial Ethernet or fieldbus protocols can be easily used – never before has industrial communication been so easily realized.
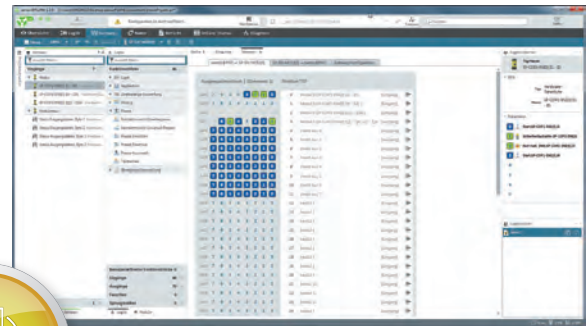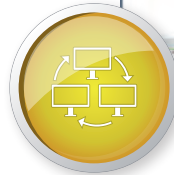
Unrestricted use

All in- and outputs and up to 300 function blocks can be applied in each project with complete freedom – ideal precondition for the solution of simple, but nonetheless complex, safety tasks.
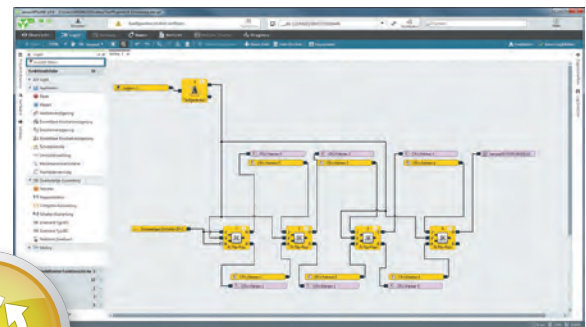
Protection of expertise

In addition, the tool offers the possibility of individual generation of user-specific function blocks and an integrated expertise protection for projects – performance features sought for in vain in other systems.
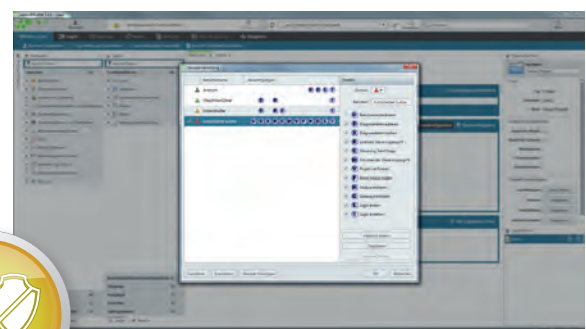
Simple and reliable

Exchangeable program memory

The exchangeable SP-COP-CARD in SD card format offers 512 MB memory space for application programs and is easily accessible – the simple handling of projects saves much time during commissioning, reproduction and when serviced is required.

Optical function display via LED

All in- and outputs of the system have an optical display to which the connections are explicitly assigned – visualization of the operating status of a machine could not be quicker and more understandable.
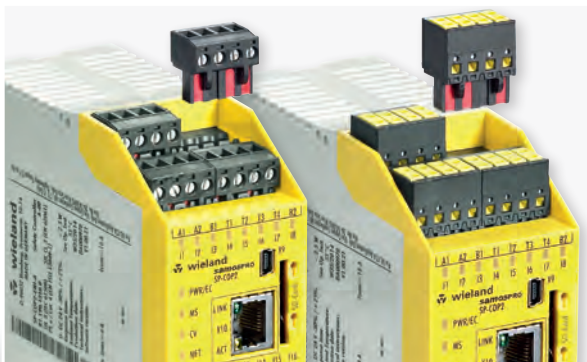
Flexible connection technology

All modules of the system are available with either screw or push-in terminal blocks – this means even more flexibility for the user, also for the connection technology.

Perfect process simulation

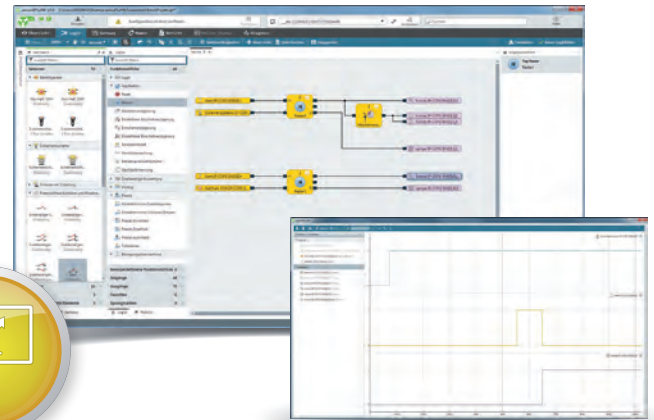The simulation function with integrated logic analyzer enables a check of the programmed safety functions already on the PC – this helps in problem solving, spares valuable time during commissioning on the machine and raises functional security overall.

Integrated documentation

The documentation function generates a customized report of the project at the press of a button – essential part of machine documentation in compliance with regulations.
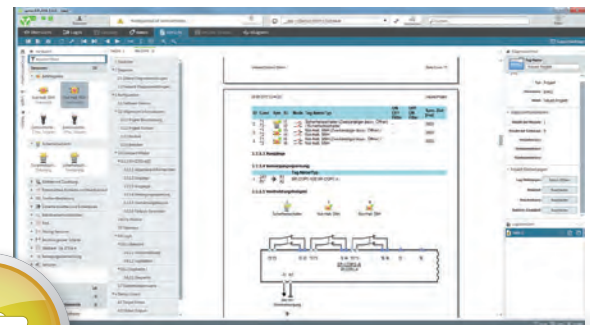
Compatible and convenient

The modern programming tool **samos**®PLAN6 offers open interfaces at many places and of course is suitable for all Windows operating systems – a more productive and reliable workflow is also guaranteed for the future.

samos® PRO COMPACT | Ordering overview

COMPACT modules

SP-COP1-x
SP-COP2-x

Name/type	Description	Art.No.	Std. Pack
samos® PRO COMPACT			
SP-COP1-A	USB connection, 20 inputs / 4 outputs, screw terminal block, pluggable	R1.190.1110.0	1
SP-COP1-P-A	PLUS version including press function	R1.190.1130.0	1
SP-COP2-EN-A	USB and Ethernet connection, 16 inputs / 4 outputs, 4 configurable I/O, screw terminal block, pluggable	R1.190.1210.0	1
SP-COP2-EN-P-A	PLUS version including press function	R1.190.1230.0	1
SP-COP2-ENI-A	USB and industrial Ethernet connection, 16 inputs / 4 outputs, 4 configurable I/O, screw terminal block, pluggable	R1.190.1310.0	1
SP-COP2-ENI-P-A	PLUS version including press function	R1.190.1330.0	1
SP-COP1-C	USB connection, 20 inputs / 4 outputs, push-in terminal block, pluggable	R1.190.1120.0	1
SP-COP1-P-C	PLUS version including press function	R1.190.1140.0	1
SP-COP2-EN-C	USB and Ethernet connection, 16 inputs / 4 outputs, 4 configurable I/O, push-in terminal block, pluggable	R1.190.1220.0	1
SP-COP2-EN-P-C	PLUS version including press function	R1.190.1240.0	1
SP-COP2-ENI-C	USB and industrial Ethernet connection, 16 inputs / 4 outputs, 4 configurable I/O, push-in terminal block, pluggable	R1.190.1320.0	1
SP-COP2-ENI-P-C	PLUS version including press function	R1.190.1340.0	1

Technical data	
Function	Safety control
Function display	24 LED green (in-/outputs)
	4 LED green/red/yellow (module status)
Supply circuit	
Operating voltage range	16.8 V DC to 30 V DC
Rated power	3.5 W
Galvanic isolation	No
Secure input circuit I_n	
Quantity / type	20 (16)* / digital
Primary voltage range	15 V DC to 30 V DC
Nominal current	2 mA
Secure output circuit Q_n	
Quantity / type	4 (8)* / digital
Nominal output voltage	24 V DC
Output voltage I_n per output	4 A
Short-circuit protective device	Yes
Interfaces	
USB Mini interface	Yes
Ethernet interface	Yes*
Industrial Ethernet protocol*	Modbus TCP, Profinet IO, Ethernet/IP
Program memory	External
General data	
Protection class as per DIN 60529	IP20
Air and creepage distances	EN 60664-1
Operating ambient temperature	-25 °C to +65 °C
Standards	EN 61508, EN 62061, EN ISO 13849-1, EN 50156-1, EN 81-1
Certificates / Approvals	TÜV, cULus

* Dependent on device type

You will find accessories and additional information in our
eShop under **https://eshop.wieland-electric.com**

We will be happy to help you with selection and commissioning.
You can reach our Technical Support under the telephone
number **+49 951 9324-999**

samos ® PRO COMPACT | Ordering overview . Accessories

Extension modules

SP-SDIO84-x
SP-SDI8-x
SP-DIO84-x

Name/type	Description	Art.No.	Std. Pack
SP-SDIO84-P1-K-A	In-/output extension with output test pulses, 8 inputs / 4 outputs, screw terminal block, pluggable	R1.190.0030.0	1
SP-SDIO84-P1-K-C	In-/output extension with output test pulses, 8 inputs / 4 outputs, push-in terminal block, pluggable	R1.190.0040.0	1
SP-SDI8-P1-K-A	Input extension, 8 inputs, screw terminal block, pluggable	R1.190.0050.0	1
SP-SDI8-P1-K-C	Input extension, 8 inputs, push-in terminal block, pluggable	R1.190.0060.0	1
SP-DIO84-K-A	Standard E/A module, 4 inputs / 4 outputs, screw terminal block, pluggable	R1.190.1050.0	1
SP-DIO84-K-C	Standard E/A module, 4 inputs / 4 outputs, push-in terminal block, pluggable	R1.190.1060.0	1

Gateways

SP-CANopen
SP-PROFIBUS-DP
SP-EN-ETC

Name/type	Description	Art.No.	Std. Pack
SP-CANopen	CANopen gateway	R1.190.0210.0	1
SP-PROFIBUS-DP	PROFIBUS-DP gateway	R1.190.0190.0	1
SP-EN-ETC	Ethercat gateway	R1.190.0160.0	1

Accessories

SP-COP-CARD1

SP-CABLE-USB1
SP-CABLE-ETH1

SP-VISUAL-SET

Name/type	Description	Art.No.	Std. Pack
SP-COP-CARD1	Memory-card for SP-COP	R1.190.1000.0	1
SP-CABLE-USB1	USB cable for SP-COP, 1.8 m	R1.190.1010.0	1
SP-CABLE-ETH1	Ethernet cable for SP-COP, 2 m	R1.190.1020.0	1
SP-COP-STARTER-SET	Content: SP-COP2-EN-A, SP-COP-CARD1, SP-PLAN6, SP-CABLE-USB1, SP-CABLE-ETH1	R1.190.1100.0	1
SP-VISUAL-SET	Visualization set (touch panel 3.5'' color, SP-CABLE4, software driver)	R1.190.0280.0	1
SP-COVER	SD card slot cover for SP-COP modules	R1.190.1040.0	10
WKFN 2,5 E/35 GO-URL	***fasis*** multi-tier terminal with diode	56.703.8755.9	100
APFN 2,5 E/35	End plate	07.312.7355.0	10

wieland

safety

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