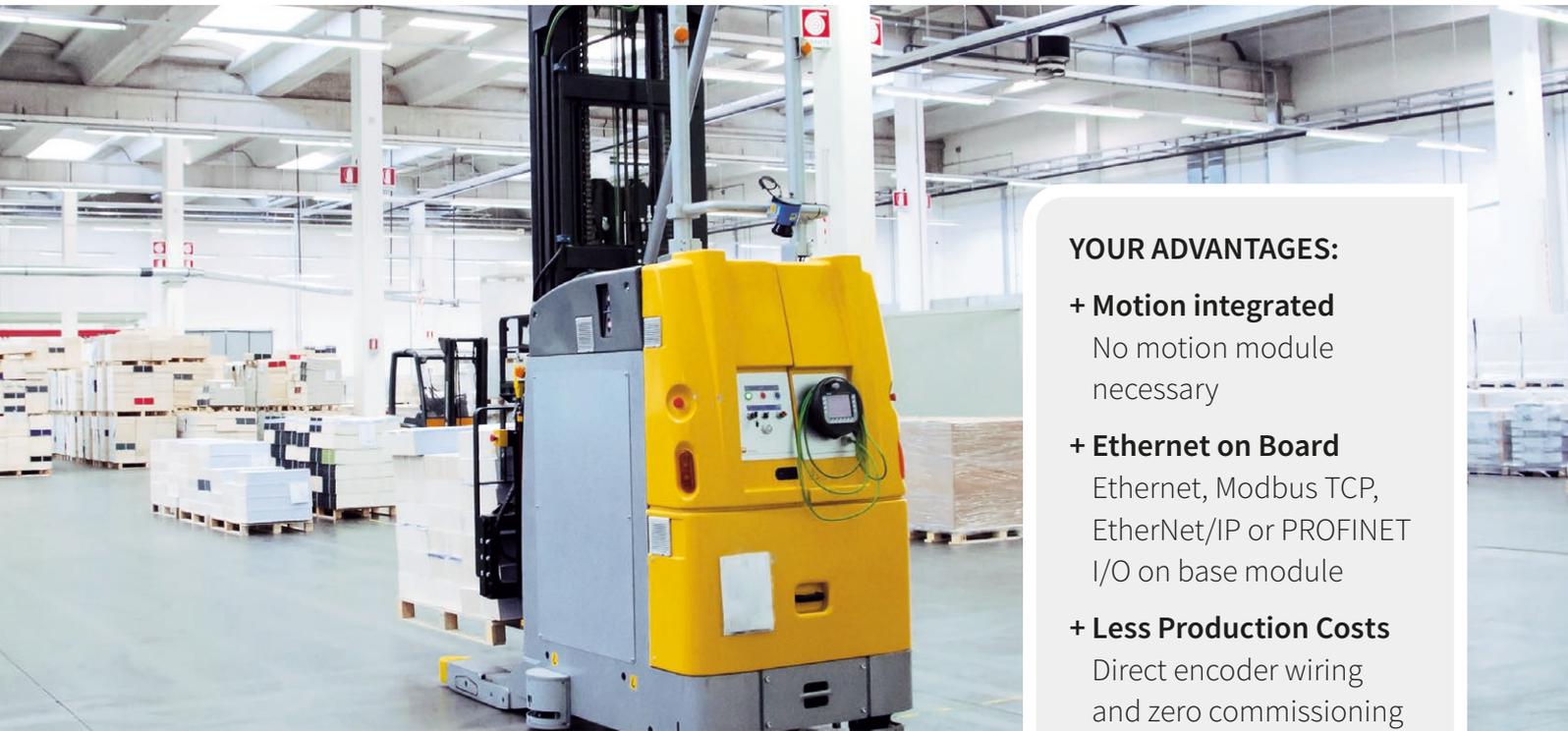


# SAFE AND COMPACT AGVs

Best integrated safety solution for automated guided vehicles



## YOUR ADVANTAGES:

- + **Motion integrated**  
No motion module necessary
- + **Ethernet on Board**  
Ethernet, Modbus TCP, EtherNet/IP or PROFINET I/O on base module
- + **Less Production Costs**  
Direct encoder wiring and zero commissioning with verified SD cards

Wieland offers its new programmable safety PLC samos® PRO COMPACT PLUS to all AGV manufacturers.

Thanks to safe motion inputs integrated on the base module, additional motion modules are not needed, saving money and space. PLd for 2 axes is easily achieved integrating SENC safe encoders. Any HTL encoder can be wired directly to our controller.

Predefined zones of laser scanners can be switched safely using functions according to EN 61800-5-2 like SSR, SDI and SLP in the base module. samos® PRO COMPACT PLUS is compatible with all sensors and laser scanners with I/Os.





### APPLICATIONS

- Automated guided vehicles
- Unit load carriers
- Tow vehicles
- Forklifts
- Pallet trucks



### FEATURES

- Safe Speed Range (SSR) integrated
- Safe direction (SDI) integrated
- Safe Limited Position (SLP) for steering axis
- Safety level of PLd for 2 axes
- Differential speed calculation (Q3/2019)
- TÜV certified Cat 4, SIL3, PLc, Safety PLC and safety encoders
- Direct encoder wiring to terminal blocks
- Pre-verified projects on SD cards



### YOUR BENEFITS

- Easy scanner zone change
- Easy toggle between rear and front scanner
- Safety zone dependent of angle
- Fullfills future AGV standard EN ISO 3691-4
- Comfortable monitoring of differential axes
- Fast validation with safety authorities
- Saves time and wiring effort
- No need to verify project on every device during production

## SAFETY SERVICE – YOU’LL NEVER WALK ALONE.

Hopefully now you are convinced to try out Wieland products in your AGV solution. If your time or resources are limited, Wieland Electric will offer you following:

- Safety training and consulting including risk analysis or CE process
- Preassembled cable solutions to make your AGV pluggable
- One part number for complete solution package including safety laser scanners



### SAFETY HOTLINE

Phone: +49 951 9324-999

Email: [safety@wieland-electric.com](mailto:safety@wieland-electric.com)



### LOCAL SALES CONTACT

<https://www.wieland-electric.com/en/contacts/wieland-international/>



### ORDER ONLINE

<https://eshop.wieland-electric.com/>

## OVERVIEW PART NUMBERS.

Name/type	Description	Part No.
SP-COP1-P-A DC 24V	Safety Controller	R1.190.1130.0
SP-COP2-EN-P-A DC 24V	Safety controller with Ethernet	R1.190.1230.0
SP-COP2-ENI-P-A DC 24V	Safety controller with industrial Ethernet	R1.190.1330.0
SP-COP-CARD1	SD card for safety controller	R1.190.1000.0
SP-SDIO 84-P1-K-A	Safe I/O module	R1.190.0030.0
SP-DIO 84-K-A	Standard I/O module	R1.190.1050.0
WIENET AP 3P ETH-A-A	WLAN access point + 3-Port switch	83.040.0053.0
WST 13,5 / TS 35	Shield connection terminal	Z2.803.6010.0
SENC-58S10HTL1024A	SENC safe HTL Encoder, solid, axial	R1.450.1050.0
SENC-58S10HTL1024R	SENC safe HTL Encoder, solid, radial	R1.450.1060.0
SENC-58H14HTL1024R	SENC safe HTL Encoder, hollow, radial	R1.450.1130.0
CABLE-M23CKW-PUR-015	SENC Encoder cable, 1,5 m	R1.450.9310.0
CABLE-M23CKW-PUR-030	SENC Encoder cable, 3 m	R1.450.9314.0
CABLE-M23CKW-PUR-050	SENC Encoder cable, 5 m	R1.450.9320.0
COUP-STATOR-58-S	SENC stator coupling	R1.450.9110.0
SNH 1122	Emergency stop complete	R1.200.1122.0



SP-COPx-

SP-SDIO



SENC-58



SNH 1122



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