

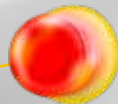
COMPACT - FLEXIBLE - OPEN

WIRELESS SAFETY



Safety Manager

Central
emergency
stop



Electromagnetic
lock



Local emergency stop



AGV 1

GEBHARDT StoreBiter 500



Local emergency stop



AGV 2

GEBHARDT StoreBiter 500

HOT FACTS

COST-EFFECTIVE

Highly compact, modular and cost-efficient solution

EASY

Simple configuration of safety applications

FLEXIBLE

Check-in and Check-out of mobile units during runtime

COMPACT – FLEXIBLE – OPEN

WIRELESS SAFETY

With the compact S-DIAS system, space-saving wireless safety can be implemented flexibly and economically. The slim solution consists of a standard CPU (i.e. CP 102) combined with a Safety controller (SCP 111) and Safety I/Os such as the digital Safety mixed module (SDM 081). Each module measures only 12.5 x 104 x 72 mm (WxHxD).

FLEXIBLE LOG-IN AND LOG-OUT

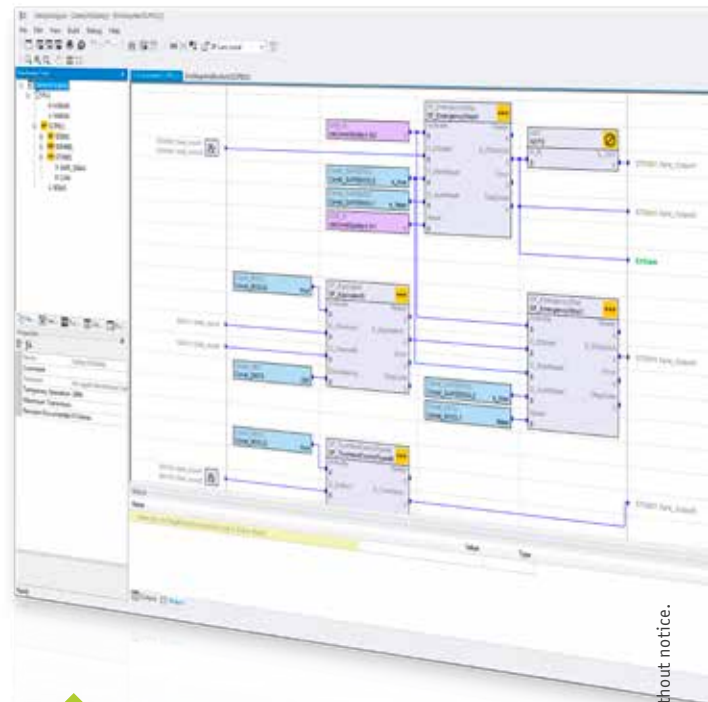
In the safety application, the certified function “Optional Switch” allows switching safety devices to active or inactive via the HMI with password protection. Mobile units can be registered dynamically in the application. The S-DIAS safety system complies with SIL 3, PL e, cat. 4.

DATA TRANSFER: BLACK CHANNEL

Safety data is transferred according to the Black Channel principle via cable (over VARAN, EtherCAT, Ethernet, TCP/IP) or wireless networks (WiFi). Wireless transmission is performed using conventional WLAN access points. In a system with mobile, safety-relevant units such as AGVs, the safety manager is also implemented using an S-DIAS safety system which equally communicates safe data via Black Channel.

SIMPLY CONFIGURE SAFETY

The LASAL SAFETYDesigner allows you to configure your safety application easily and comfortably while saving time. The extensive library includes all required safety function blocks, which are based on the PLCopen standard. The function blocks and safe in- or outputs are simply placed via Drag & Drop. The integrated debugger provides graphic representation of all values and clearly displays the status and signal flow of the safety functions.



Create your safety application comfortably and quickly with the LASAL SAFETYDesigner: Thanks to the graphic, clear display and predefined function blocks, the amount of effort required for application development is reduced significantly.

CPU

CP 102 EDGE2 Technology processor, 1x Ethernet, 1x CAN, 1x USB-OTG (On-the-Go)

SAFETY

SCP 111	Safety controller 1x USB device, microSD slot
SCP 211	Safety controller, 1x USB device, microSD slot, FSoE Master
SDI 101	10 Safe digital inputs +24 V DC, 0.5 ms
SAI 041	4 safe analog current inputs 4-20 mA, 16 bits, +24 V DC
STO 081	8 Safe digital outputs +24 V DC, max. 2 A, short-circuit proof
SDM 081	6 Safe digital inputs +24 V DC, 0.5 ms, 2 Safe digital outputs +24 V DC, max. 2 A
SRO 021	2 Safe relay outputs max. +30 V DC, max. 6 A
SRO 022	2 safe relay outputs max. +230 V DC, max. 6 A
SSI 021	Evaluation of 2 SSI absolut value encoders (up to 32 bits)
SNC 021	Evaluation of 2 incremental (up to 16 bits), encoder supply +5 V, counter frequency 3 MHz