



MOBILE & FIXED

Industrial Wireless Safety Systems

DOLD



Safety Rating: SIL3



Safety Rating: SIL2

COMHAND
HANDS-FREE

1500 S. Sylvania Ave., Suite 104 • Sturtevant, WI 53177

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Wireless Emergency Stop Buttons

RADIO CONTROLLED SAFETY SYSTEM UH 6900 - PAIR MODE

DOLD 
Safety Rating: SIL3



The safety approved, bidirectional radio controlled safety system UH 6900 from the SAFEMASTER W series, is for the transmission of safety inputs such as E-stop and conventional control functions and offers great flexibility for the protection of hazardous areas. By implementing the latest radio controlled technologies, a high level of safety and a long transmission range is achieved. Two safety zones can easily be connected wirelessly over a considerable distance. The main application areas include applications covering large areas and mobile applications such as fully automated conveyor systems and driverless transport systems. Simple and inexpensive retrofitting of existing safety systems can also be achieved wirelessly with this system.

The device allows connection of up to 3 two-channel safety transmitters (E-stop, LC, safety gate, two-hand, etc.), simple configuration, and comprehensive sampling and diagnostic options.

With the radio controlled safety system, you will have an automated safety solution that can be integrated wirelessly into various applications. The option to select between three operating modes (complete protected mode, cross mode, protected mode with connectable ratio control) allows the device to be quickly and reliably adapted to your individual application.

ADVANTAGES AND CUSTOMER BENEFIT:

- For safety applications up to Cat. 4 / PL e or SIL 3, TÜV certified
- Safety approved, bidirectional E-stop transmission
- Long transmission range up to 800 m
- Quick start, fast set-up procedure
- Reliable data transmission with superior interference suppression
- Comprehensive error indication and diagnostics
- Two channel safety inputs / outputs
- Control inputs / outputs
- Integrated analysis of existing on site radio networks

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RADIO CONTROLLED SAFETY SYSTEM UH 6900 - PAIR MODE



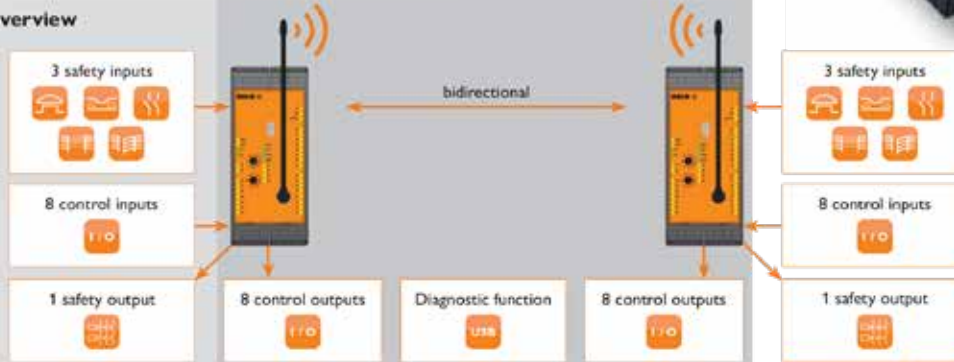
Technical features

- ▶ Complies with
 - Performance Level (PL) e and category 4 acc. to EN ISO 13849-1
 - SIL Limit (SIL CL) 3 acc. to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 acc. to IEC/EN 61508 and IEC/EN 61511
- ▶ Machine directive 2006/42/EC
- ▶ 3 different operating modes selectable
- ▶ Connect 3 two-channel safety functions, depending on operating mode:
 - E-stop, safety door, LC, two hand, 1 start button
- ▶ Single safety output with 3 contact paths
- ▶ 8 semi-conductor inputs and outputs for control functions
- ▶ Semi-conductor outputs to signal radio reception, status display
- ▶ Different frequency ranges possible:
 - 433 / 869 MHz (EU version), 915 MHz (US version)
- ▶ LEDs for status display
- ▶ 45 mm width

Order information

Standard type: UH 6900.03PS / 00MF0 DC 24 V / 433 MHz
Item number: 0067213

Overview

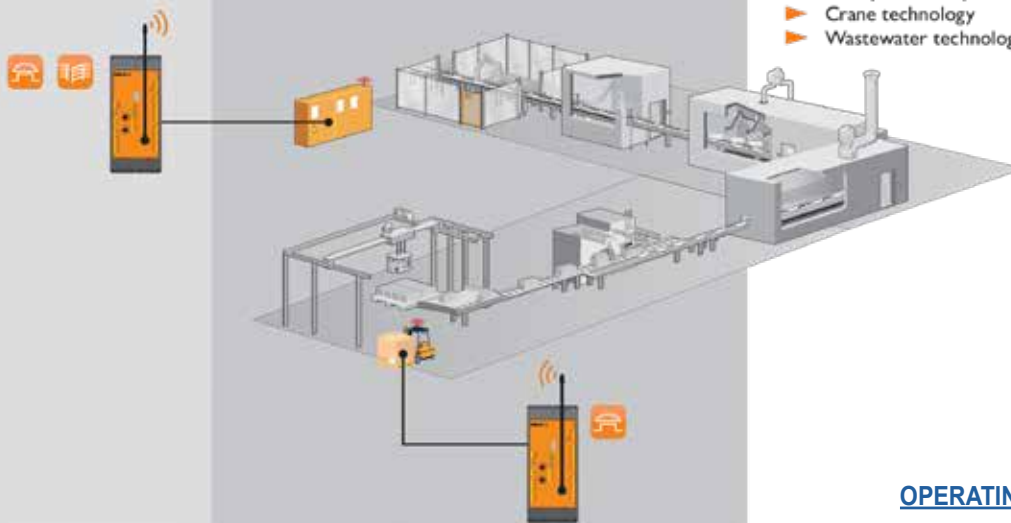


Radio controlled safety module UH 6900



Application example

The application example shows, safe, wireless protection of automated machinery and systems of large physical size.



Application

- ▶ Fully-automated floor-level conveyors
- ▶ Automated guided vehicle systems
- ▶ High-bay warehouses
- ▶ Transport conveyors
- ▶ Crane technology
- ▶ Wastewater technology

[OPERATING MANUAL \(click here\)](#)

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RADIO CONTROLLED SAFETY SYSTEM UH 6900 - GROUP MODE

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Safety Rating: SIL3



The radio controlled safety system UH 6900 of the SAFEMASTER W series, consisting of one group controller and up to 255 group receivers for the safety-related, wireless transmission of emergency stop and control functions, offers more flexibility in safeguarding hazardous areas. By implementing the latest radio controlled technologies, a high level of safety and a long transmission range is achieved. With the group controller, several receivers can be safely switched off via a unidirectional, safety-related radio link. Furthermore, the controller can exchange message, control and status information with a receiving device.

The devices enable the connection of up to 3 two-channel safety sensors (emergency stop, LC, safety door, two-hand etc.) and offer simple configuration as well as extensive evaluation and diagnostic options.

The main areas of application include mobile applications such as fully automated floor conveyors and driverless transport systems. A simple and cost-effective retrofitting of existing safety systems can also be realized without wiring.

ADVANTAGES AND CUSTOMER BENEFIT:

- For safety applications up to Cat. 4 / PL e or SIL 3, TÜV certified
- Safety-related, unidirectional emergency-stop transmission in group mode
- Long transmission range up to 800 m
- Quick start, fast set-up procedure
- Reliable data transmission and low susceptibility to interference
- Comprehensive fault localization and diagnosis
- Two-channel safety inputs / outputs
- Control inputs / outputs
- Integrated analysis of the existing radio network

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Wireless Emergency Stop Buttons

RADIO CONTROLLED SAFETY SYSTEM UH 6900 - GROUP MODE



Technical features

- ▶ According to
 - Performance Level (PL) e and Category 4 acc. to EN ISO 13849-1
 - SIL Limit (SIL CL) 3 acc. to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 acc. to IEC/EN 61508 and IEC/EN 61511
- ▶ Machinery Directive 2006/42/EC
- ▶ Connection of 3 two-channel safety functions: Emergency stop, safety door, LC, two-hand, 1 start button
- ▶ 1 signal output with 3 contact paths (group controller)
- ▶ 1 safety output with 3 contact paths (receiver)
- ▶ 8 semiconductor inputs and outputs for control functions
- ▶ Semiconductor outputs for signalling radio reception, status display
- ▶ Different frequency ranges possible: 433 / 869 MHz (EU version), 915 MHz (US version)
- ▶ 45 mm width



Radio controlled safety module UH 6900
Group controller



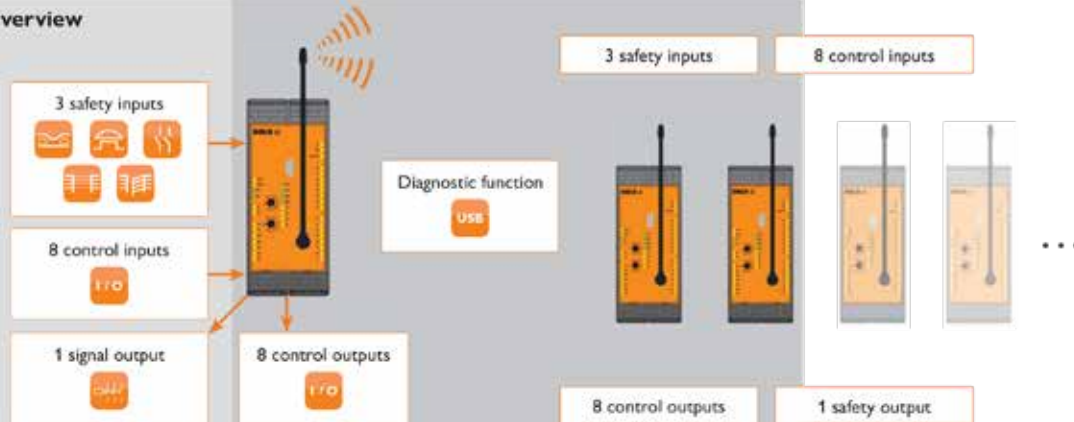
Radio controlled safety module UH 6900
Group receiver

Order information

Standard type: UH 6900.03PS / 00GC0 DC 24 V / 433 MHz
Item number: 0067955 (Group controller)

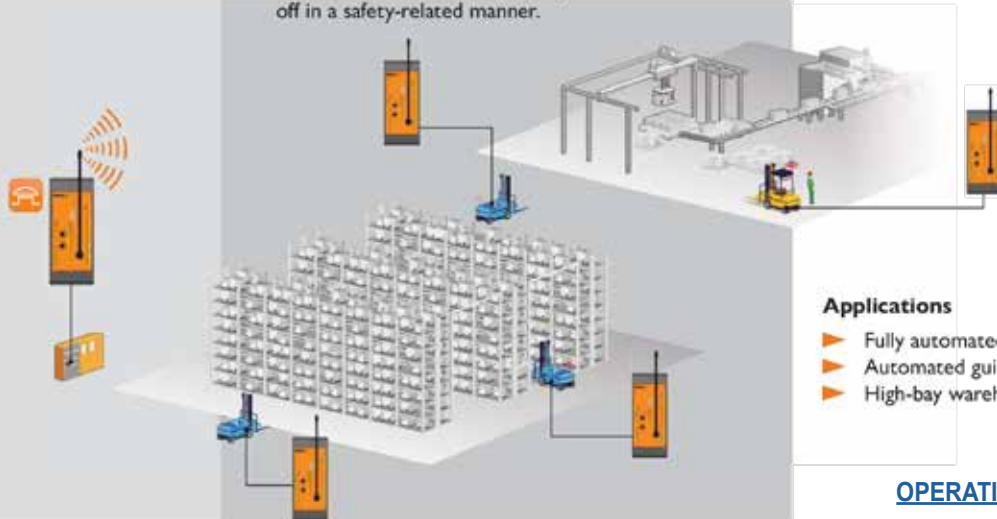
Standard type: UH 6900.03PS / 00GR0 DC 24 V / 433 MHz
Item number: 0067957 (Group receiver)

Overview



Application example

If a safety function (e.g. emergency stop, etc.) is triggered on the group controller, all group receivers are switched off in a safety-related manner.



Applications

- ▶ Fully automated floor conveyors
- ▶ Automated guided vehicle systems
- ▶ High-bay warehouses

[OPERATING MANUAL \(click here\)](#)

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Wireless Emergency Stop Applications

PAIR MODE APPLICATIONS

- Machine building industry
- Intralogistics
- Paper and printing industry
- Food industry
- Automotive industry
- Recycling industry
- Packaging machines
- Mining and steel industry
- Gantry cranes
- Mountain railways and ski lifts
- Transportation and conveying technology
- Wind energy systems
- Ship building and harbour systems
- Construction materials industry

... and anywhere else
where safety is the
highest priority.
Also in your industry!

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Safety Rating: SIL3



GROUP MODE APPLICATIONS

- Intralogistics
- Machine building industry
- Paper and printing industry
- Food industry
- Automotive industry
- Recycling industry
- Packaging machines
- Mining and steel industry
- Gantry cranes
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- Wind energy systems
- Ship building and harbour systems
- Construction materials industry

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LITERATURE

- [Wireless Pair Mode](#)
- [Wireless Group Mode](#)
- [SAFEMASTER W](#)
- [Wireless Pair Mode Manual](#)
- [Wireless Group Mode Manual](#)
- [SAFEMASTER W Group](#)

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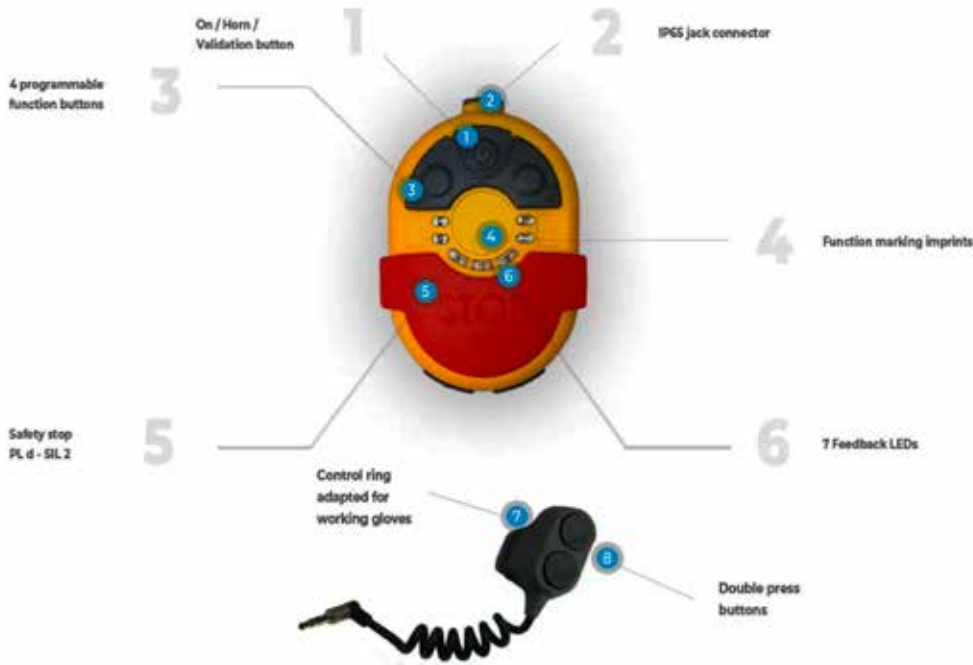
Wireless Emergency Stop Buttons

COMHAND

Free your hands! Perform your tasks easily and enjoy more ergonomics and versatility with this innovative remote control.



Safety Rating: SIL2

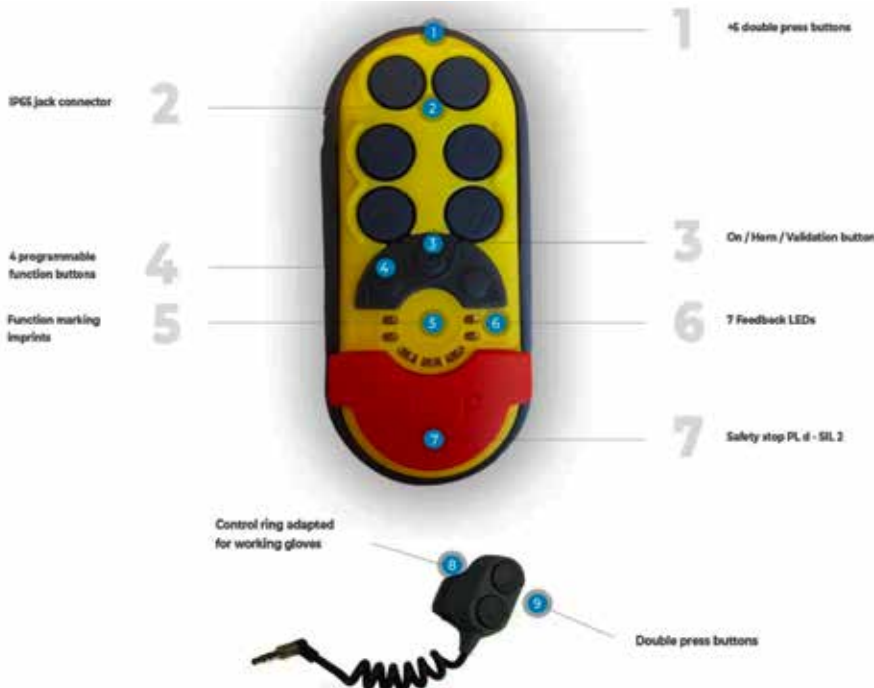


BABHAND

Gain flexibility with this compact and versatile remote control. With or without accessories it will best adapt to your use.



Safety Rating: SIL2



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Wireless Emergency Stop Buttons

COMHAND RADIO CONTROL

SIL2 Cat3 PLd Mobile Emergency Stop

Safety wireless e-stop. Also incorporates 4 additional non-safety wireless control functions. Range: 100 meters.



WITHOUT CONTROL, THE POWER IS NOTHING! – A new generation of portable wireless industrial wrist radio control to pilot by sight and fully exploit the power of your production tools in industrial environments. 100% hands-free portable emergency stop. Designed to be the best safety wireless remote control e-stop in its class. Integrated into the wrist, it offers more freedom, improves ergonomics and user productivity. Also incorporates 4 additional non-safety wireless control signals. Up to a 100 meter range. The magnetic wristband allows the control ring to be stored. The operator has his hands free very quickly and easily.

Remote lectern – The ComHAND can be carried or moved on the machine to be controlled. This system eliminates the need for a bulky wired console and thus reduces cable-related maintenance on your machines.



Plug & Work receiver - Retrofit

The receiver allows you to connect to new and older machines and lifting equipment in just a few minutes.

WIRELESS E-STOP SECURHAND

ENHANCED OPERATOR PROTECTION

The portable emergency stop solution is unique on the market. It is worn continuously on the wrist and thanks to its “punch” button accessible at any time, it allows to significantly increase the safety of the operator.



Safety Rating: SIL2



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Wireless Emergency Stop Buttons

COMHAND APPLICATIONS

ONE TRANSMITTER, NUMEROUS APPLICATIONS

Especially designed for tasks requiring one movement at a time, ComHand can be used on any type of lifting devices and responds to all button box issues. Its ergonomic and compact shape, its simplicity, its robustness and safety of use make this radio control a valuable tool to increase your operational efficiency.

- Hoists
- Monorails
- JIB cranes
- Gantry cranes



Safety Rating: SIL2

BABHAND APPLICATIONS

ONE TRANSMITTER, NUMEROUS APPLICATIONS

Especially designed for combined movements, BabHand can be used on any type of lifting devices. Thanks to its ergonomic and compact shape, its robustness, its simplicity and safety of use and its multiple combinations, this new radio control provides considerable added value to your productivity.

- Overhead cranes
- Monorails
- JIB cranes
- Gantry cranes



Safety Rating: SIL2

ADDITIONAL APPLICATIONS

Hands-free & handheld applications that allow the operator and other personnel the ability to stop a machine/hazard as needed. Too many applications to list!!!



Safety Rating: SIL2

LITERATURE

- [Comhand Brochure](#)
- [Babhand Brochure](#)
- [Siatech Quickstart](#)
- [Siatech Receiver Wiring Scheme](#)
- [Comhand User Guide](#)



Safety Rating: SIL2

VIDEOS

- [SIATECH: Hands free remote control for overhead cranes](#)
- [SIATECH: Tutoriel BabHAND](#)



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ISC Import Partners:

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