



SAFEMASTER W

DOLD 

Radio controlled safety module UH 6900 - Wireless Functional Safety

The safety approved, bidirectional **SAFEMASTER W series radio controlled safety module UH 6900**, 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 degree of availability, a wide range, and safety 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
- ▶ High on line availability with long 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



Our experience. Your safety.

Radio controlled safety system UH 6900

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, I 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)
- ▶ LEDs for status display
- ▶ 45 mm width



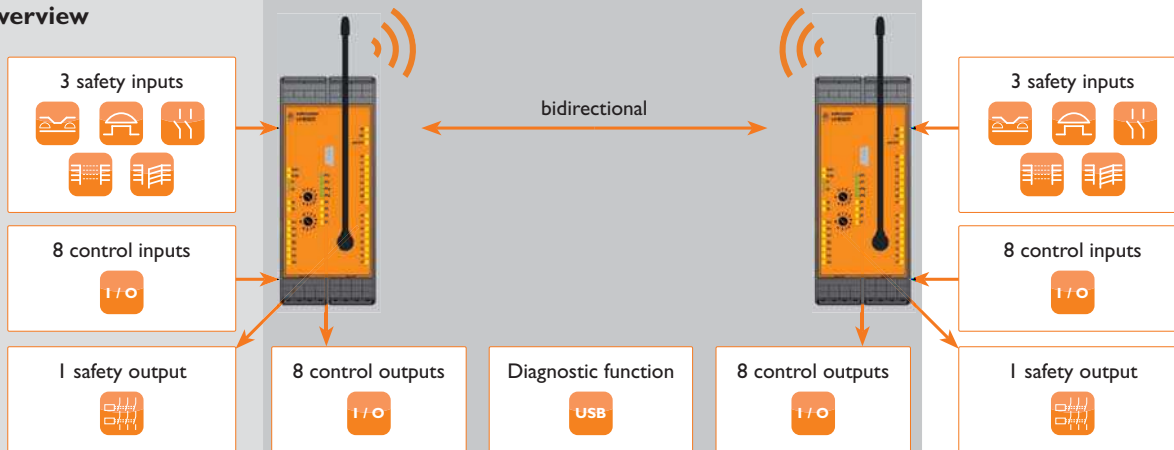
Radio controlled safety module UH 6900



Order information

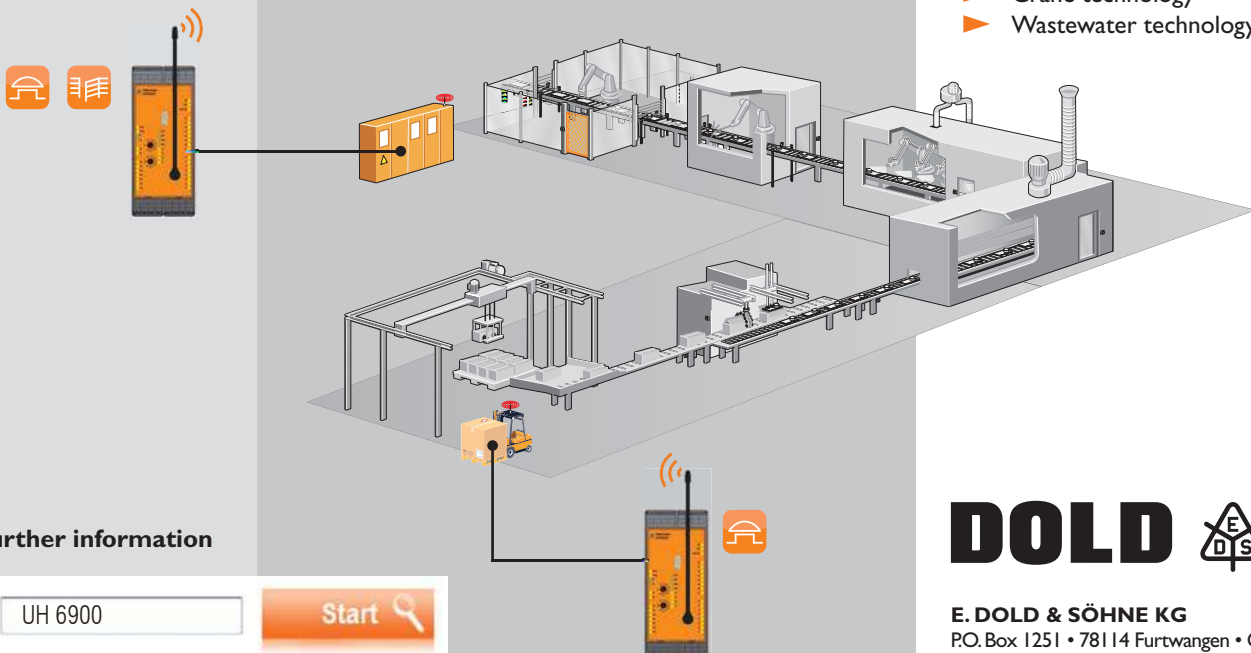
Standard type: UH 6900.03PS / 00MF0 DC 24V / 433 MHz
Item number: 0067213

Overview



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

Further information

UH 6900

Start

www.dold.com

DOLD

E. DOLD & SÖHNE KG
P.O. Box 1251 • 78114 Furtwangen • Germany
Tel. +49 7723 6540 • Fax +49 7723 654356
dold-relays@dold.com • www.dold.com