



SAFEMASTER W – Wireless Safety in group mode ...

SAFEMASTER W

Safe wireless modules – reliably protect safety zones wirelessly

The radio controlled safety system UH 6900 in group mode offers new options and solutions in the field of functional safety. Even in areas where classic safety technology confronts its limits:

- Whether you need to wirelessly activate an emergency disconnect for a remote high bay shelving unit,
- or need to safely stop a control system to complete maintenance work on a conveyor belt or other moving equipment.

Problem solved, the radio controlled safety system UH 6900 uses the latest radio controlled technology to achieve a high degree of safety and increase production time.

Wireless, Safe, Reliable

The radio controlled safety system UH 6900 from the SAFEMASTER W series comprising a group controller and up to 255 group receivers, for safe data transmission of emergency-stop and control functions, providing a high degree flexibility when securing dangerous areas

The group controller can be used to allow several receivers to be securely shut down via a unidirectional safety radio transmission. Furthermore the controller together with a single receiver in the group, can exchange indication, control and status information. The main application areas include, mobile systems such as completely-automated floor conveyors and automated guided vehicles.

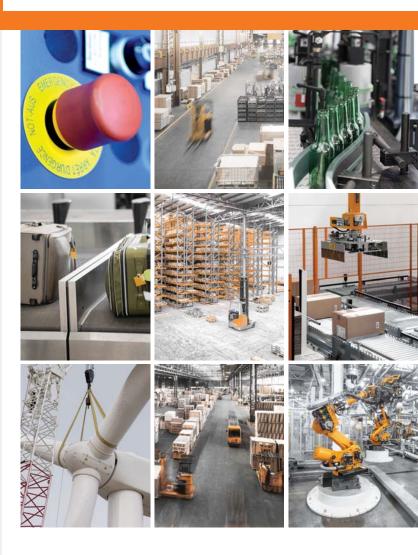
Easy set-up procedure, configurable modules

Quick set-up is possible as the modules are pre-configured. The free SAFEMASTER W Manager software makes it easy to adapt the modules for different functions and the built in diagnostic functions aid set up in the field.

Certified safety



The SAFEMASTER W series is approved for use in safety applications up to Cat. 4 / PL e or SIL 3. The latest radio controlled technology ensures reliable protection for people, machinery, and the environment.





... with high availability for ranges up to 800 m



SAFEMASTER W - Your advantages at a glance:



Unidirectional with indication signals

Wireless safe signal transmission ensures a high level of availability, even in rough wide ranging and difficult to access plants



Safe signal transmission

Safe radio transmission of emergency stop functions offers additional flexibility in protecting hazardous areas



Highest safety standards

Suitable for use in safety applications up to Cat. 4 / PL e or SIL 3



High availability

A stable wireless connection ensures disruption-free operation



Range

The range in open areas is up to 800m allowing exceptional signal coverage



Signal strength

Adjustable transmission power offers variable area coverage



Spectrum analysis

The integrated Spectrum Analyzer provides a quick overview of all available channels



Group mode and start options

Adjustable group mode with several start options allows customized system adaptation



Diagnostic options via USB

Status display and data logging via the free SAFEMASTER W Manager software, extends functionality and simplifies set up



2-Channel safety inputs

Connect up to 3 two-channel safety functions (E-stop, light curtain, safety gate, two-hand mode, etc.)



Control functions

Up to 8 function inputs and outputs



Indication contact

(Group controller)

One indication output with 3 contact paths



Forcibly guided contacts

(Group receiver)

One safety output with 3 redundant contact paths



UH 6900 Group receiver



Basic function: safe shutdown of all group receivers ...

Group mode

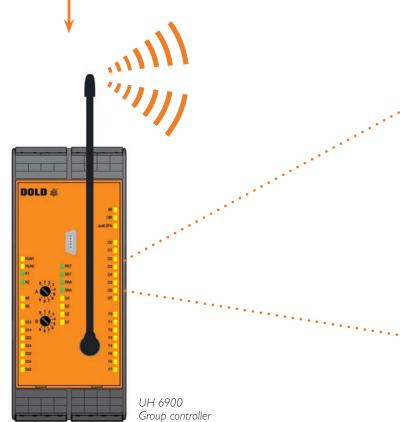


Operating principle

The radio controlled safety system UH 6900 in group mode, transmits safety signals from the group controller to one or more group receivers.

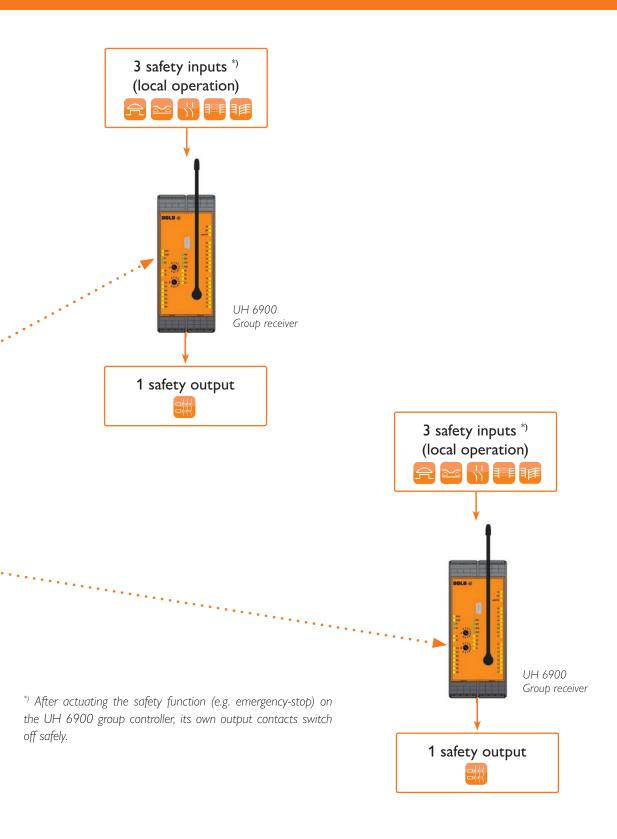
Up to three 2-channel safety sensors (such as emergency-stop, light curtain, safety gate, etc.) can be connected to the controller. After actuating one of these safety functions, the safety outputs of all group receivers shut down in a safe and reliable manner. This is accomplished by each receivers 3 x redundant safety contact paths.

Three hard wired safety sensors can be connected to each group receiver which can then operate its own safety contact output.



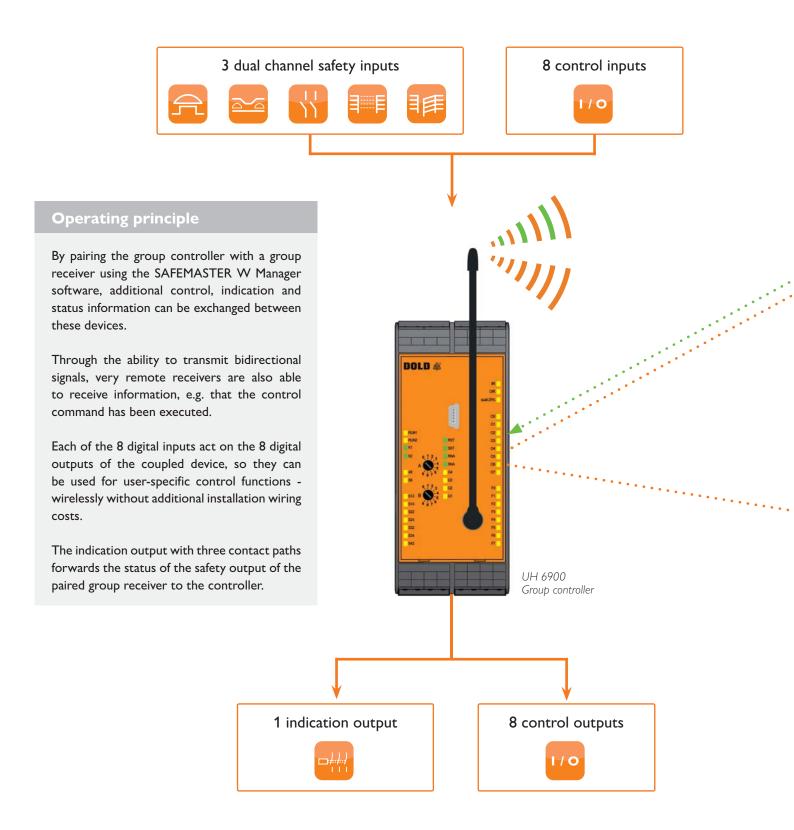
After actuating the safety function (e.g. emergency-stop) on the group controller, all group receivers switch off safely.

... shut down up to 255 group receivers with the group controller

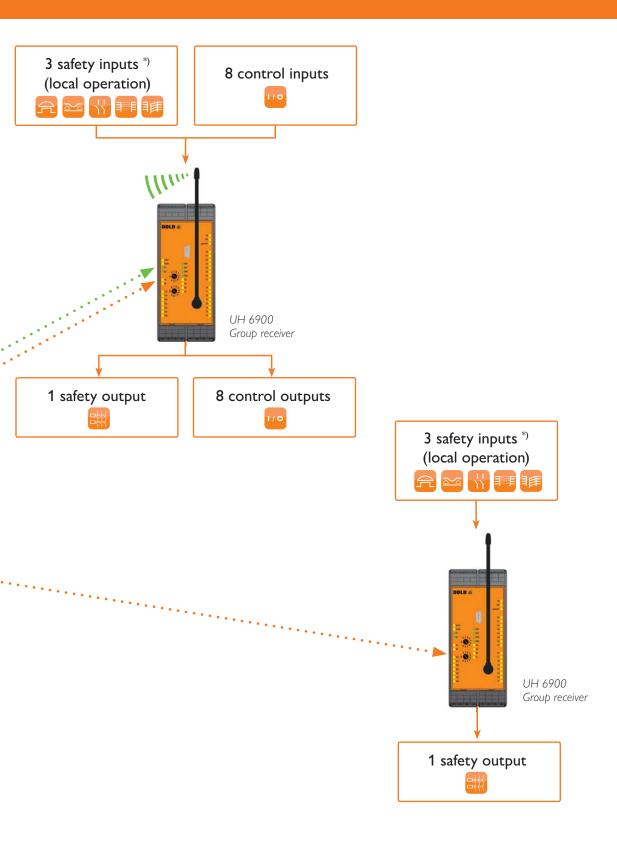


Function expansion: Control and report ...

Group mode with feedback

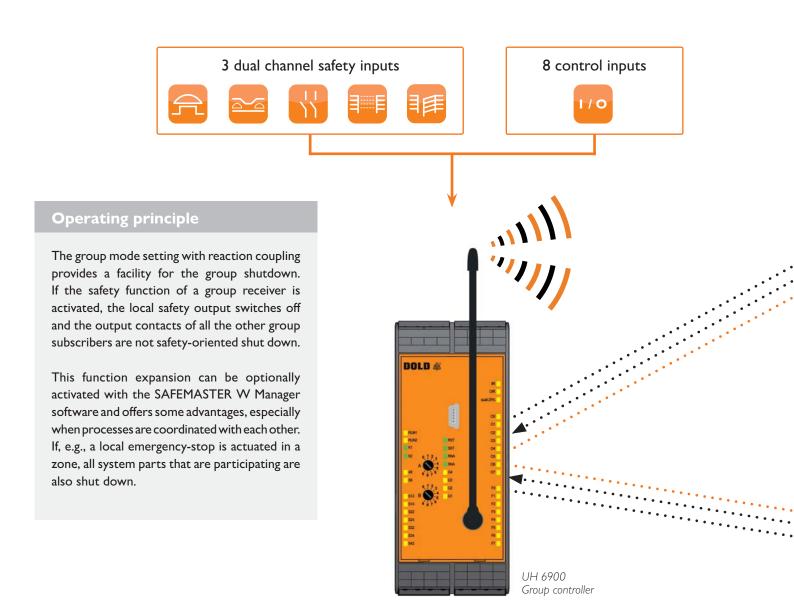


... bidirectional communication

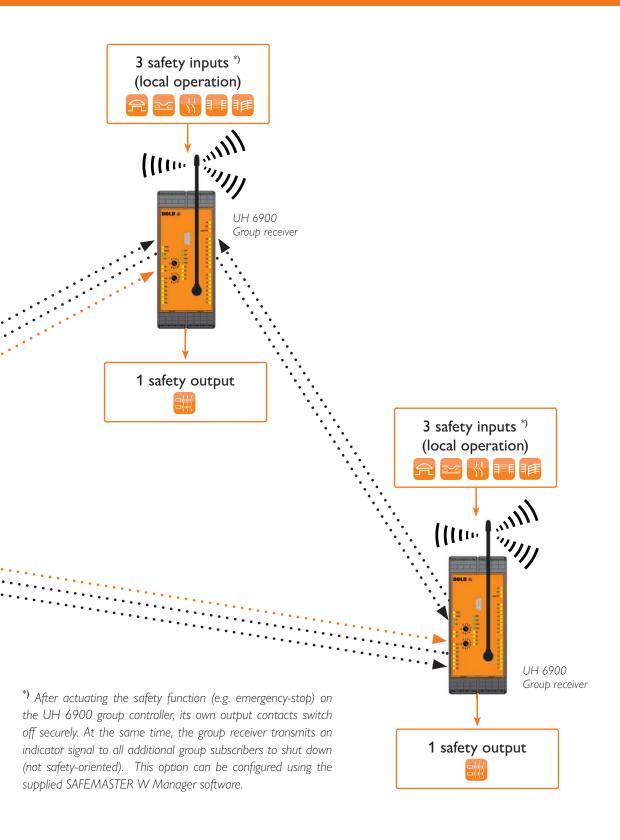


Function expansion: Group shutdown by every participant ...

Group mode with reaction coupling



... wireless and from any location



UH 6900 application ...

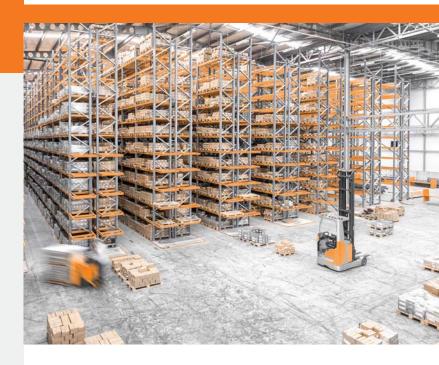
Practical application

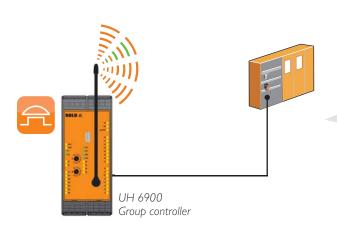
The radio controlled safety system UH 6900 makes best use of its inherent advantages in wide ranging and mobile systems where wiring is not possible, e.g. in logistics with automated guided vehicles (AGV).

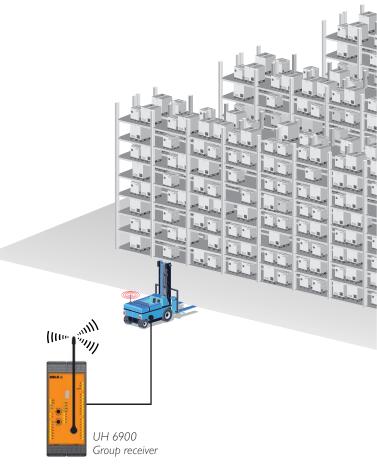
With the group controller in the switch cabinet, all AGV's can be safety switched off during an emergency stop. This guarantees safety during service or maintenance procedures and on installation.

In addition, each AGV can be locally switched off during a dangerous situation. With "Group mode with reaction coupling" all subscribers in the group can also be simultaneously stopped, which prevents a possible collision with the stationary AGV.

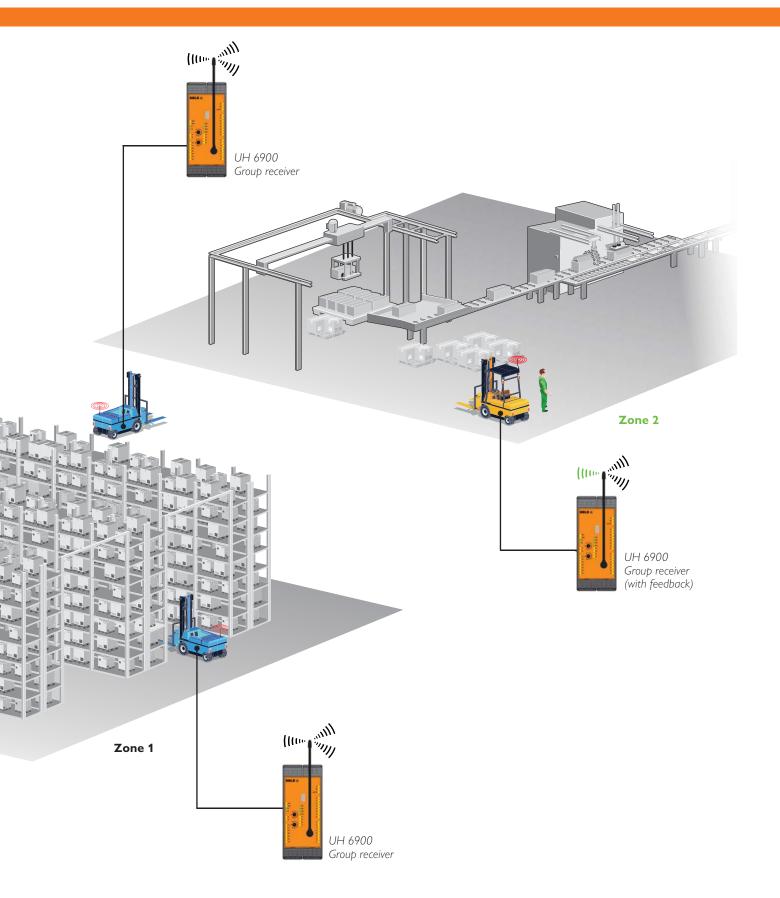
During maintenance or service work, the maintenance staff (forklift in Zone 2) can communicate through the "Group mode with feedback" function with the PLC. For example, certain zones can be blocked or released to let service work be carried out unimpaired in an active zone.





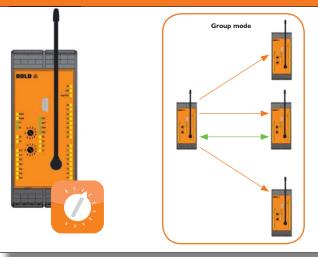


... complete protection for mobile systems and plants



Easy start up - Quick start in just 3 steps





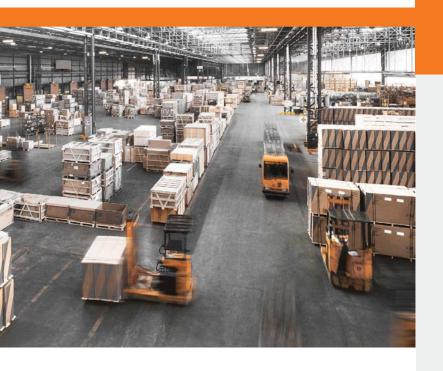








SAFEMASTER W Manager - comprehensive diagnostics



SAFEMASTER W Manager

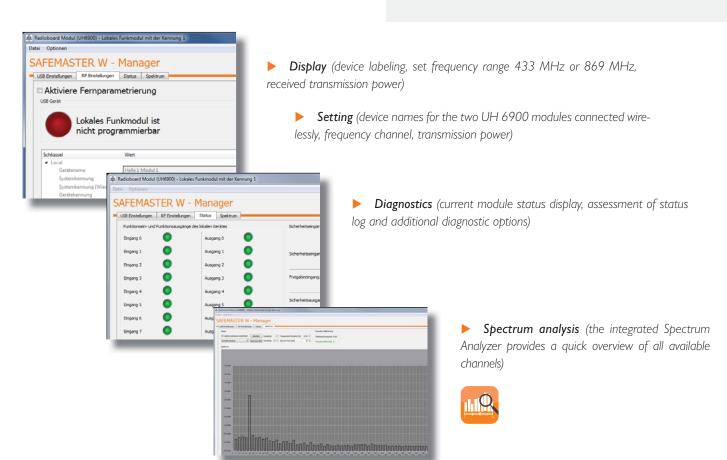
Quick and easy set up and diagnostics for your wireless system

DOLD offers a free software program "SAFEMASTER W Manager" which facilitates set up, diagnostics and system logging through a simple graphic user interface.

The "Group mode with feedback or reaction coupling" function expansion can be set with the SAFEMASTER W Manager software.

The software ensures fast diagnostics, additional live status displays and data logging, facilitating the best possible availability of machinery and systems.

The integrated Spectrum Analyzer provides a quick overview of all available radio channels and potential interference.



Flexible, versatile - System components

SAFEMASTER W
System overview

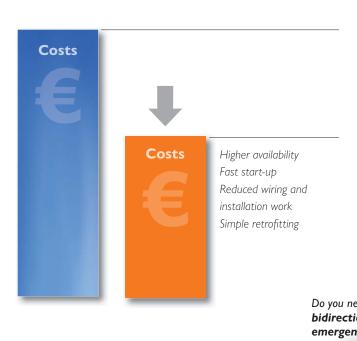
Wireless Safety Solutions from a single source

The radio controlled safety system UH 6900, expands on the comprehensive DOLD functional safety wireless product range. In addition to the existing SAFEMASTER W safe mobile emergency stop systems and wireless enabling switches, DOLD now offers a safe wireless solution for paired and group mode operation systems. It can be integrated wirelessly into a variety of safety-related applications, even in rugged, difficult to access and wide ranging systems.

The radio controlled safety system UH 6900 can be configured to easily and efficiently handle many different wireless functional safety challenges. Especially in areas where wiring would be impractical or impossible. Evaluate the Safemaster W solutions now for yourself!

Economic efficiency

The UH 6900 wireless safety module - safe and economical to use:





Best possible safety for all industries

- Intralogistics
- Machine building industry
- Paper and printing industry
- Food industry
- Automotive industry
- Recycling industry
- Packaging machines
- Mining and steel industry
- Gantry cranes
- 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!



	Туре	Device type	Level (PL) according to EN ISO 13849-1	Level (SIL) according to IEC 61508	Safety Inputs 1)	Outputs	0000.100001			
							Inputs	Outputs	Connection type ³⁾	Art. no.
	UH 6900.03PS/00GC0	Wireless Group controller	Cat. 4 / PL e	3	3	3 NO	8	8	Screw terminal	0067955
	UH 6900.22PS/00GC0	Wireless Group controller	Cat. 4 / PL e	3	3	2 NO, 1 NC	8	8	Screw terminal	0067959
	UH 6900.03PS/00GR0	Wireless Group receiver	Cat. 4 / PL e	3	3	3 NO ²⁾	8	8	Screw terminal	0067957
	UH 6900.22PS/00GR0	Wireless Group receiver	Cat. 4 / PL e	3	3	2 NO, 1 NC ²⁾	8	8	Screw terminal	0067961
	ZB 6900/040	Aerial 1/2 wave, BNC without adapter	-	-	-	-	-	-	-	0067254
	ZB 6900/041	Aerial 1/4 wave, SMA	-	-	-	-		-		0067255
	UH 6900.03PS/00GC1	Wireless Group controller	Cat. 4 / PL e	3	3	3 NO	8	8	Screw terminal	0067956
	UH 6900.22PS/00GC1	Wireless Group controller	Cat. 4 / PL e	3	3	2 NO, 1 NC	8	8	Screw terminal	0067960
	UH 6900.03PS/00GR1	Wireless Group receiver	Cat. 4 / PL e	3	3	3 NO ²⁾	8	8	Screw terminal	0067958
	UH 6900.22PS/00GR1	Wireless Group receiver	Cat. 4 / PL e	3	3	2 NO, 1 NC ²⁾	8	8	Screw terminal	0067962
	ZB 6900/050	Aerial 1/2 wave, SMA	-	-	-	-		-	-	0067256
	ZB 6900/042	Cable extension with cable pass through (2 m) SMA	-	-	-	-	-		-	0067257
	ZB 6900/043	Cable extension with cable pass through (5 m) SMA	-	-	-	-	-	-	-	0067258
	ZB 6900/044	Adapter BNC/SMA	-	-	-	-		-	-	0067642
	ZB 6900/045	Angle connector SMA	-	-	-	-		-	-	0067675
	ZB 6900/060	Photo sensor for additional start signal (infrared)	-	-	-	-	-	-	-	0067259
	ZB 6900/061	Extension cable set for photo sensors (2 m)	-	-	-	-	-	-	-	0067260
	OA 6920	Programmer cable mini USB/USB (1 m)	-	-	-	-	-	-	-	0064160
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Our experience. Your safety.

SAFEMASTER - Multifunctional safety solutions

Innovative safety concepts

As a solution provider for safe automation and electrical safety, DOLD offers a comprehensive product portfolio from a single source. Our SAFEMASTER solutions have been successfully used for many decades around the world.

From single function safety switching devices for simple safety applications through to multifunction, modular safety systems, DOLD develops tailor-made solutions for your industry and applications.

We would be happy to provide you with information about further safety solutions.



SAFEMASTER STS

The SAFEMASTER STS

locks, key transfer and

command functions in a single

system. The new FRP variation

stands out for its attractive

design, and can be combined

with our trusted stainless steel

SAFEMASTER S

SAFEMASTER PRO





modular safety switch and key monitoring utilise a combinatransfer system serves to tion of safe speed, standstill, monitor the moveable safety or frequency monitoring, with or without external sensors. guards. It combines the advantages of safety switches, guard to increase productivity and

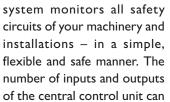
safety.

Our solutions for secure drive The modular and configurable

SAFEMASTER PRO safety and dynamic program realization.

The emergency stop system and radio controlled enabling switch in the SAFEMASTER W series can be used to wirelessly shut down hazardous movements in a fraction of a second. The Wireless Safety System thus ensures maximum freedom of movement for the operating and maintenance personnel.

SAFEMASTER W



be upgraded via extension modules at any time. Now also featuring safe speed monitoring



version.



