



MACHINE SAFETY

- SOLUTIONS & COMPONENTS
- WIRELESS SAFETY SOLUTIONS
- MOTOR CONTROL & MONITORING RELAYS
- SPECIALTY CONTROLS • EV / SOLAR / BESS

DOLD



SAFETY WIRELESS
ENABLING SWITCH – RE6900



DOLD



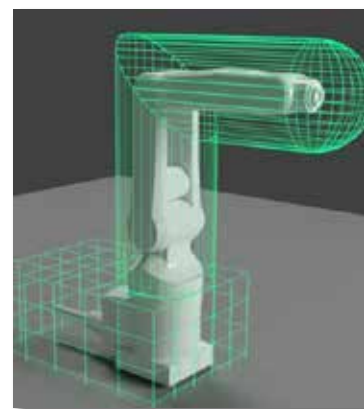
IMD 1500VDC
WITH
COUPLING
DEVICE
EV
MEGACHARGING

REES



INTERLOCKING EMERGENCY
STOP BUTTON

**SENSORY
ROBOTICS**
Safety in a New Dimension



SR-1
ADVANCED
3D
SAFETY
SYSTEM



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SAFETY WIRELESS ENABLING SWITCH RE6900

Safety Ratings: SIL3, CAT4, PLe – Incorporates anti tie down feature.
 Approved for Europe & pending FCC radio frequency approval for USA.

FEATURES:

- Operating range up 100 meters
- Anti tie down – motionless detection feature for enhanced safety
- Numerous non-safety control function modes & outputs
- RFID secured for each user of the enabling switch for enhanced safety
- Shock detection in accident situations
- Motion & position detection as check on activity



SAFETY WIRELESS EMERGENCY STOP RE6900

Maximum mobility with the highest level of security.
 Discover the new RE6900 radio security system from the SAFEMASTER W series for maximum mobility with the highest level of security up to Cat. 4 / PLe or SIL3.



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SAFETY WIRELESS GROUP MODE SYSTEM – UH6900

SAFEMASTER W – SIL3 Cat4 Radio Controlled Safety System

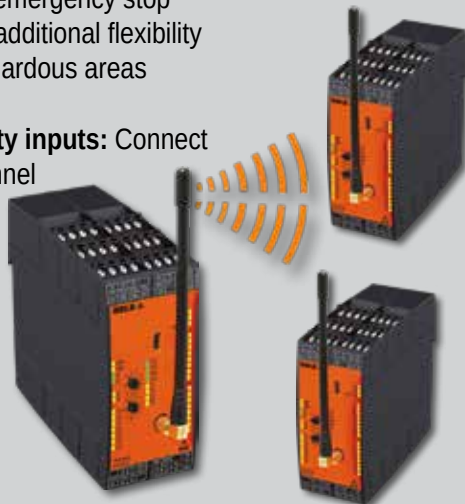
The radio controlled safety system UH 6900 of the SAFEMASTER W series comprising a group controller and up to 255 group receivers for the safety transmission of emergency-stop and control functions provides more flexibility when securing dangerous areas. The group controller can be used to let several receivers securely shut down through a unidirectional, safety radio transmission. Furthermore, the controller together with a receiver can exchange indicator, control and status information.

Applications include: Mobile applications, such as completely-automated floor conveyors and automated guided vehicles.

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

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

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



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SAFETY WIRELESS PAIR MODE SYSTEM – UH6900

SAFEMASTER W – SIL3 Cat4 Radio Controlled Safety System

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.



Highest safety standards: Suitable for use in safety applications up to Cat4 / PLe or SIL3

Control functions: Up to 8 function inputs and outputs

2-Channel safety inputs: Connect up to 3 two-channel safety functions (E-stop, LC, safety gate, two-hand operation, etc.)



COMHAND RADIO CONTROL

WIRELESS E-STOP WITH CONTROLS

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.

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SMARTER SAFETY ROBOTS START HERE

No fences. No guessing. No compromises. We believe the future of automation should be powerful and safe. Legacy safety systems—like light curtains, fencing, and area scanners—weren't built for modern factories, where robots and humans share space and tasks. We're redefining what's possible in advanced manufacturing.



SR-1 SAFETY SYSTEM

A 3D safety system that detects people in real time and drives predictable safety behavior for industrial robots and AMRs in shared-space cells.



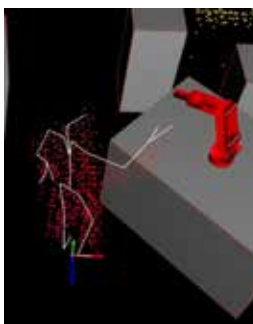
SR-PRESS (HAND DETECTION)

A 3D safety monitoring solution for press operations that creates a configurable safe work envelope and outputs a stop or safe-state signal when risk is detected.



SR-MOBILE

A mobile safety system that applies SR-1 technology to AMRs with mounted arms, allowing safety to travel with the robot and protect the active work envelope as it moves.



SR-INSIGHT

Software that turns SR-1 safety events into dashboards and alerts, helping teams track stops, identify root causes, and detect drift from the approved risk assessment.



SR-2 (IN DEVELOPMENT)

Our next-generation safety platform exploring robot-mounted sensing to bring safety closer to the work envelope and simplify deployment for future cells.

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SAFETY IN A NEW DIMENSION

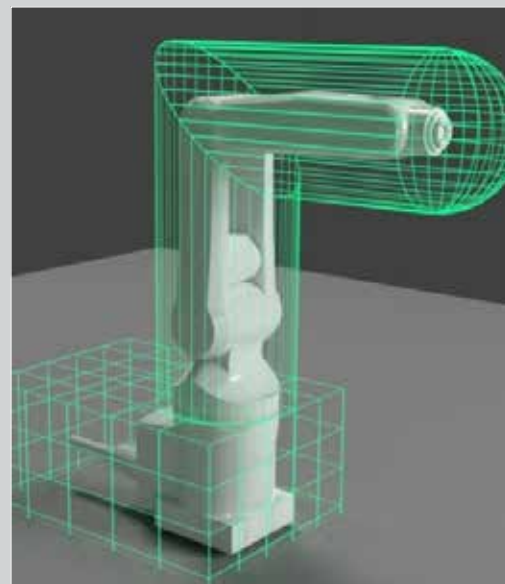
Unlock the Power of SR-1 Unmatched Safety and Efficiency

Discover the unmatched safety provided by the SR-1. With a safety design that aligns with UL compliance standards and Self-Certification according to EN13849-1, PLd, Category 3, the SR-1 sets a new standard for safety. Our TUV Nord CMSE Risk Assessment on file further underscores our dedication to safety. Through its sophisticated worker detection capabilities, it ensures the utmost level of protection in hazardous areas, elevating the concept of safety in a collaborative environment to a whole new level.

Seamless integration is at your fingertips with the SR-1. Interface this exceptional solution effortlessly with any industrial safety relay, controller, or PLC using redundant relay or transistor outputs. It seamlessly integrates into your existing safety infrastructure, with validation and monitoring handled by the system integrator.

Powered by cutting-edge 3D stereoscopic sensing technology, the SR-1 offers advanced detection capabilities. It detects objects as small as 2"/50mm in diameter, even at high speeds of up to 2000mm/sec or greater. Enjoy comprehensive safety coverage and precise intrusion detection like never before.

The SR-1's enhanced responsiveness is a game-changer. With a rapid reaction time of just 120 to 300ms, it enables quick intervention and optimal worker safety. Expand the system effortlessly with up to 8 sensors and take advantage of its daisy chain functionality, providing unparalleled flexibility and scalability to meet your evolving needs.



SR-1 Benefits

- INTELLIGENT 3D MONITORING
Live Point Cloud technology adapts safety zones to dynamic movement.
- 3D HUMAN DETECTION
Advanced 3D Time-of-Flight sensing provides complete protection, immediately detecting human presence.
- FLEXIBLE AUTOMATION SAFETY
Ideal for collaborative cells featuring robots, AMRs, and human workers in complex production scenarios.
- SCALABLE AND VERSATILE COVERAGE
SR-1 scales effortlessly, covering extensive production spaces and multi-robot cells.
- SEAMLESS INTEGRATION
Seamless integration into existing automation setups, reducing down-time and operational disruptions.
- UNCOMPROMISED PRODUCTIVITY
Intelligently monitors robot speed and movement, ensuring optimal efficiency and safety simultaneously.

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DOLD SAFEMASTER STS

ROBUST LOCKING SYSTEM (STAINLESS STEEL OR FRP)

SAFEMASTER STS is the reliable safety switch and key transfer system used for safeguarding separating protective devices of machines and systems. Designed to meet the highest safety standards and complies with all relevant standards. Safely and reliably protects employees as well as machines and production facilities.



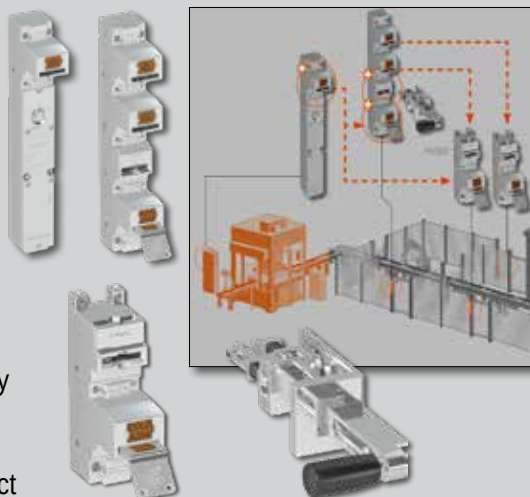
The FRP version is characterized by a sophisticated design, high signaling effect and easy handling. Thanks to the robust combination of stainless steel and FRP, it offers the best possible application options, for example in automation technology as well as in the automotive and railroad industries.

The robust and high-quality stainless steel design finds optimal use in harsh environments, such as bulk material areas of the construction, chemical, food and pharmaceutical industries. However, SAFEMASTER STS is also the optimal solution in areas where extreme ambient temperatures prevail or where moisture and dirt are present.

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MECHANICAL SYSTEM WITH INTEGRATED KEY EXCHANGE UNIT

None of the entrances are wired, the main entrance must be opened first. There is also the optional possibility of directly opening one of the maintenance gates. If only one door is directly opened, then it is ensured the remaining doors will stay closed.



OPTIONAL:

- Personal key
- Authorization key
- Padlock module
- Escape release
- Feedback contact

GUARD LOCK WITH INTEGRATED COMMAND AND INDICATION FUNCTIONS



The SAFEMASTER STS series safety switch with guard lock offers the possibility of integrating up to three command and indication functions. Allows control signals such as emergency stop or acknowledgment of the safety door to be triggered directly at the entrances of machines and plant access points. In addition emergency stop buttons, illuminated buttons, pushbuttons or selector switches are also available.

Also available with auxiliary and emergency release as well as coded actuators. Due to its very slim design, the robust and attractive fiber reinforced polymer (FRP) enclosure can be mounted directly on safety fences to save space. Optional M23 plug connectors ensure fast set-up and reduce the wiring effort to a minimum.



SAFETY SOLUTIONS FOR AUTONOMOUS IMRs, INDUSTRIAL MACHINERY, ROBOTS & AUTONOMOUS AG MACHINERY



Industrial Safety Controls, Inc. has been an industry leader in the machine safety world for nearly three decades. Our commitment to industrial and AG industry safety requirements, including autonomous industrial mobile robots and autonomous AG Industry Equipment is at the forefront. Our innovative approach, knowledge of workable safety solutions and understanding of industry safety standards allows us to ... be a valued resource. Please contact us to discuss your requirements.



WIRELESS
 SAFETY
 SIL2 – CAT3 – PLD



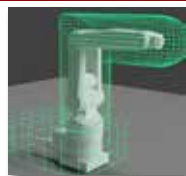
INTERLOCKING
 E-STOP



RADAR SAFETY
 SYSTEM



3D FENCELESS
 SAFETY SYSTEM



DOLD

UH6900 WIRELESS
 GROUP
 CAT4 – SIL3 – PLE



DOLD

UH6900 WIRELESS
 PAIR
 CAT4 – SIL3 – PLE



DOLD

ENABLING SWITCH
 RE6900
 CAT4 – SIL3 – PLE



DOLD SAFETY RELAYS



E-STOP



ZERO
 SPEED



MULTI-
 FUNCTION

DOLD

EMERGENCY STOP MODULE
 UF6925
 8-36 VDC OPERATING VOLTAGE



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Emergency Stop Buttons or Maintained Cycle Stop Buttons with Integrated Interlock Feature

**... assist in your risk reduction efforts to comply with:
ANSI/ASSP Z244.1-2026 (R2020)
"The Control of Hazardous Energy Lockout, Tagout & Alternative Method"**

The complexity of machinery, robotics at all levels, automation, etc. make the challenges of performing all the needed tasks to maintain, troubleshoot, clean and operate more than difficult at times. The ANSI Standard reference calls out for a risk assessment, determining risk reduction measures and products/means to control/eliminate hazardous energy.

First state as per this ANSI Standard: The emergency stop buttons shown below are not energy-isolating devices. They are based on your risk assessment, a very viable risk reduction solution that goes beyond your normal emergency stop button, as they have an integrated interlock built into the switch. 3.25 Risk Reduction Measures and 3.26 Safeguards reference safeguarding devices, including interlock and stop devices. 5.8 Control Integration references safety interlock system as well Table 1 - The Hazard Control Hierarchy list Risk Reduction Measures (Guards, Safeguarding Devices) as the number to option to Elimination or Substitution.

In sharing all of the above, another great feature of the Rees Emergency Stops with an Integrated Interlock, is that it allows operators, maintenance and other staff to put an identification tag on the emergency or cycle stop if or when needed due to reason of the actuation of the control.

Rees for decades has been manufacturing these type of switches in Indiana. ISC has been representing Rees since 1988.

ISC, Inc. ([Industrial Safety Controls, Inc. - Industrial Safety Products](https://www.industrialsafetycontrols.com)) specializes in all aspects of machine safety, including wireless safety systems ([Wireless Safety Solutions](https://www.industrialsafetycontrols.com)). Please email Brian Thomas (BrianT@industrialsafetycontrols.com) or call 262-456-0927 to discuss your application.

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**22mm
with Spring Loaded
Integrated Interlocking
Device**

Extremely Heavy Duty



**Oversized 2.25in
Mushroom Head with
Integrated Interlocking
Device**

Very Robust



**30mm Emergency Stop
with
Integrated Interlock**

Heavy Duty



**Heavy Start/Reset with
Emergency Stop Button
with
Integrated Interlock**

Heavy Duty



OVERSIZED ROBUST INTERLOCKING E-STOP



22MM INTERLOCKING EMERGENCY STOP



22MM REQUEST TO ACCESS WITH INTEGRATED INTERLOCK



ROBUST, HEAVY DUTY CONTROLS WITH INTEGRATED INTERLOCK



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COMITRONIC - BTI

NON-CONTACT SAFETY SWITCH WITH HOLDING FORCE

EPINUS

- 40N integrated stainless steel magnetic door holding
- Level of performance with AWAX controller: up to PL = e
- Up to 4 with an AWAX controller
- Dangerous failure time: MTTFd = 360 years
- Max. activation distance: 3 mm, 2 mm hysteresis
- Holding force: transmitter + receiver in contact = 40N
- Safety contacts/diagnostics: 2 x NO 0.8A max / 48V redundant and 1 x PNP 250mA



INTERLOCK-KAR

This interlocking system uses a bolt detection device with the ACOTOM technology process. This guarantees a contactless connection with a type 4 coding according to ISO 14119.

Interlock-KAR thanks to the Axkef RFID coding system (RFID technology with 16 million codings) makes it possible to have a customizable strike.



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TWO HAND CONTROLS

Hand operated, control circuit device, rated 'heavy duty' normally for use with electromagnetic equipment. The powder coat painted yellow cover and chrome plated flat plunger are made from die-cast zinc. Auxiliary rubber boot under plunger head. Low operating force – under 2 lbs. Nema 12/13, IP 65.

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TWO HAND CONTROL RELAY

Performance Level (PL) e and category 4 to EN ISO 13849-1. SIL Claimed Level (SIL CL) 3 to IEC/EN 62061. Safety Integrity Level (SIL) 3 to IEC/EN 61508. Safety level Type III-C to EN 574.

- Inputs for 2 push buttons with 1 NC and 1 NO contact
- Output: 3 NO contacts, 1 NC contact
- Overvoltage and short circuit protection
- Width: 22.5 mm

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CABLE / ROPE OPERATED SWITCH

WITH BROKEN CABLE DETECTION

Positive break and positive transfer features making them particularly competent for Emergency Stop applications. Housing is made from high quality die-cast aluminum and painted with yellow dry powder paint. Set-up position easily attained without cover removal. Cable is stretched until shaft end is flush with indicator hub end. Switch will trip and latch if the cable breaks, comes loose or is pulled. Blue booted reset button pushed to reset contact. Designed to reduce “nuisance tripping” from cable expansion and stretch often associated with taut cable switches.



CABLE SWITCH

The following switch is to be hung in line with the cable run and do not need to be mounted to any surface.

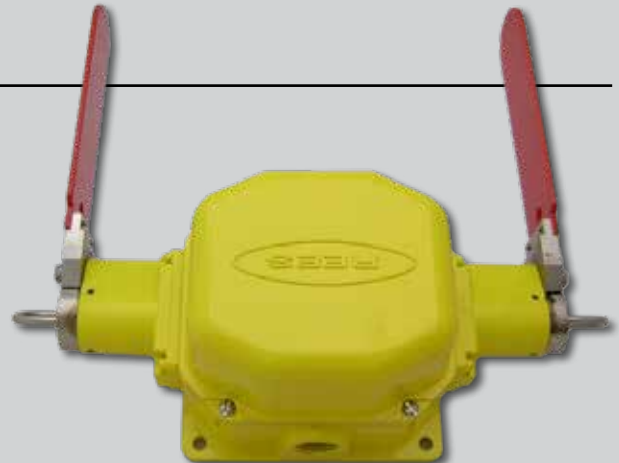
There are many configurations of this style of switch available including both “slack” and “taut” cable styles.

They are available with up to 2 NO contacts and 2 NC contacts and/or an LED pilot light. All versions of this switch will come pre-wired with a 5 or 8 pin M12 connector for easy installation.



CABLE OPERATED SWITCH WITH DOUBLE FLAG INDICATOR OR LATCH PLATE

“Slack cable” style switch with 1 NO and 1 NC contact on each end. For use in Emergency Stop applications as well as for ordinary circuit control. Housing is made from high quality die-cast aluminum and powder coated painted yellow. Independently operating red indicating flags rotate 90 degrees when tripped. Manually returning the flags to their normal position resets the switch.



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DOLD TRADITIONAL AND ADVANCE SAFETY RELAY SOLUTIONS FOR ALL APPLICATIONS

- Emergency stop modules
- Two-hand / safety mat evaluation
- Safety gate monitoring
- Light barrier / light grid evaluation
- Extension / delay / interface modules
- Standstill / speed / frequency monitoring
- Multifunctional safety systems
- Wireless safety solutions

**IDEAL FOR
AUTONOMOUS &
MOBILE ROBOTS
& EQUIPMENT
8-36VDC**



**WIRELESS SAFETY
SOLUTIONS FOR MOBILE
- AUTONOMOUS
- STATIONARY APPLICATIONS**

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**SPEED, FREQUENCY AND
STANDSTILL MONITORING**



**MULTIFUNCTIONAL DUAL INDEPENDENT
INPUTS & OUTPUTS**



SAFETY RELAY SOLUTIONS



EXTREMELY SMALL CAT 4 SAFETY MODULE
 – WIDTH 17.5 MM AND 64 MM DEPTH



EMERGENCY STOP MODULE
 WITH TIME DELAY



EMERGENCY STOP MODULE
 WITH VOLTAGE FAILURE DETECTION



EXPANSION SAFETY MODULE
 WITH 7NO 1NC



SAFETY RELAY MODULE
 17.5MM IN WIDTH



SAFETY LIGHT CURTAIN CONTROLLER
 WITH SELECTABLE MODES

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INDUSTRIAL CONTROL SOLUTIONS – INNOVATION, QUALITY, SERVICE



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RECHNER SENSORS

CAPACITIVE SENSING – MONITORING SOLUTIONS

CAPACITIVE SENSOR SPECIALISTS

Rechner Sensors is a specialist in capacitive sensing technology for automation, level control, and quality control applications. The Rechner product line includes over 3,000 capacitive prox, inductive prox, magneto-resistive sensors, power supply logic controllers, flow sensors, and HazLoc barriers: all in different sizes and mounting options.



CAPACITIVE SENSORS CAN BE USED IN A LARGE VARIETY OF APPLICATIONS...

- Level control of powders and solids. This includes products in the plastic industry and in high temperature + viscous products like hotmelt glue.
- Cut to length measuring systems.
- Level and position detection sensors in food applications. Includes inside of ovens, silos, batching tanks, refrigerators, and oil fryers. Also includes products that have high conductivity such as ketchup, mayonnaise, and fish batters.
- Leak detection sensors. This includes the Silicon wafer industry, pharmaceutical industry, and in areas where there is a risk of gas explosion like in diaphragm pumps.

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A3 Robotics Endorsed
TUV Certified Safety Experts
Fortune 500 Adopted
DOD-Level Software Security



Robot Safety Center

AI-ASSISTED, SECURE RISK ASSESSMENT SOFTWARE

Robot, AMR, Machine Adaptive Risk Assessment Platform / Process

Cloud-Based · AI-Assisted, Microsoft Secured · Fully Compliant with UL, ANSI/A3, ISO, IEC & OSHA

10+
Years in Market

Global
Safety Consultant
Network

CORE PLATFORM FEATURES

Task-Based Risk Assessment: Based on ISO 12100 and ANSI B11.0 (Safety of Machinery).

- **Functional Safety Calculations:** AI-assisted functional safety calculations per ISO 13849-1, IEC 62061, and IEC 61508 Series.
- **Real-Time Validation:** Application-specific checklists ensure that safety functions meet required performance levels.
- **Reporting & Audit Trail:** Professional reports for OEM, integrator & compliance reviews; traceability history for accountability.
- **Real-Time Collaboration:** Collaboration assessments across teams with security permissions to protect proprietary data.
- **Multi-Plant Management:** Standardized templates and methodology deployed consistently across all facilities.



AI-SECURED RISK INTELLIGENCE

Machine learning applied to historical assessment data, global standards knowledge, and real incident databases, making your safety program smarter over time.

~50% Reduction in Assessment Setup Time	3x More Consistent Hazard ID Across Teams
~40% Faster Audit Preparation (Client-Reported)	0 Extra Tools Needed - AI Embedded in Workflow

STANDARDS ASSISTANCE (short list)

ISO 12100 – Risk Assessment and Risk Reduction
ANSI B11.0 – Safety of Machinery
ISO EN 13849-1&2 – Safety Related Parts of Control Systems / Validation
IEC 62061 – Functional Safety SRP of CS
ISO 10218-1:2025 – Industrial Robots
ISO 10218-2:2025 – Industrial Robot Applications and Robot Cells
ANSI/A3 R15.06-2025, R15.08-1, 2 & 3 – Robot and AMR Standards
ANSI B11.19-2019 – Performance Requirements for Risk Reduction Measures
ISO/TS 15066:2016 / A3 TR R15.606 – Collaborative Applications

SIMPLE, TRANSPARENT PRICING

Pay Per Use	Unlimited
\$1,499/year 2 users - 5 Risk Assessments	\$4,828 /year 4 users/plant/client Setup included Unlimited Assessments

All plans: Bi-weekly 1-hr expert support calls, functional safety calculations, 30-day money-back guarantee.

- **Predictive Hazard ID:** AI pre-populates likely hazards by task type, robot model & industry, cuts setup time by up to 50%.
- **Standards-Aware Suggestions:** Automatic Contextual safeguard guidance, cross-referenced with applicable standard clauses.
- **Natural Language Assistant:** Ask "What safeguards does a collaborative application assembly station need?" and receive expert-calibrated, standards-cited answers instantly.
- **Risk Trend Analytics:** Eliminate duplication of effort. Cross-facility intelligence benchmarks prioritized remediation actions for company leadership.
- **DOD-Level Security:** Post-quantum data encryption; completely secure AI assistance with full audit trail.

BUILT FOR EVERY ROLE IN YOUR ECOSYSTEM

CE-marked / OSHA-compliant documentation. Greatly speed system evaluation, testing, validation, and certification.	Manage RAs across multi-client projects and interact seamlessly with all stakeholders, keeping everyone aligned.
Standardize the RA process across every plant. Track completion, generate instant audit reports, and prove compliance to leadership.	With experience across many industries, we offer highly qualified consultants for your specific applications.

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RISK ASSESSMENT, MACHINE SAFETY VALIDATION AND MACHINE SAFETY INTEGRATION

Machine safety services ensure industrial equipment complies with legal standards and protects workers from injury. These services form a three-step lifecycle: identification (assessment), testing (validation), and implementation (integration).

Risk Assessment

This first stage identifies hazards and estimates the severity of potential injuries before a machine is used.

- **Hazard Identification:** Locating mechanical, electrical, thermal, and ergonomic dangers.
- **Risk Scoring:** Quantifying risk based on injury severity and exposure frequency.
- **Compliance Mapping:** Aligning findings with global standards like ANSI, NFPA, OSHA, etc...
- **Mitigation Strategy:** Recommending design changes, guards, or safety electronics.



Machine Safety Validation

Validation acts as a rigorous audit to prove that installed safety systems actually work under failure conditions.

- **Circuit Analysis:** Reviewing safety software logic and electrical schematics.
- **Fault Injection:** Intentionally short-circuiting components to test system shutdown response.
- **Performance Level (PL) Verification:** Confirming the system meets ISO 13849-1 standards.
- **Stop-Time Measurement:** Measuring exactly how fast a machine halts after a trigger.



Machine Safety Integration

Integration is the physical and electrical installation of safety hardware onto the machinery.

- **Hardware Installation:** Mounting light curtains, safety mats, and interlock switches.
- **Control Upgrades:** Wiring safety relays and programming safety PLCs.
- **Fluid Power Safety:** Installing redundant pneumatic and hydraulic dump valves.
- **System Commissioning:** Testing the completed machine under normal production conditions.



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SAFETY SOLUTIONS FOR THE CONVEYOR INDUSTRY



ISC, Inc. has been specializing in safety solutions for the conveying, palletizing, material handling, machinery and robotic application for over three decades. We have the solutions and knowledge.

Visit: IndustrialSafetyControls.com

DOLD **WIRELESS SAFETY**

ENABLING SWITCH –
SIL3



E-STOP –
PLE



UH6900
GROUP –
CAT4



UH6900
PAIR



DOLD **SAFETY RELAYS**



E-STOP



ZERO
SPEED



MULTI-
FUNCTION



WIRELESS
SAFETY E-STOP
SIL2 – CAT3 – PLD



REES **CABLE SWITCH LINE-UP**



04963-242



04962-102



04944-040



04944-900



04953-112



04954-204



04964-204



04945-000



04958-100

REES **INTERLOCKING E-STOPS**



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CONTROL AND MONITORING RELAY SOLUTIONS

ELECTRICAL SAFETY – RESIDUAL CURRENT AND INSULATION MONITORING

Solutions for residual current monitoring, insulation monitoring, insulation fault location and for the detection of electrical and physical quantities in earthed as well as unearthed systems.

VARIMETER – Measuring relays and monitoring relays – our measuring and monitoring relays are available in different versions and detect and signal at an early stage when critical limit values of electrical quantities such as current, voltage, power, insulation resistance etc. are exceeded.



RESIDUAL CURRENT MONITORS



INSULATION MONITORS



EQUIPMENT FOR INSULATION FAULT LOCATION



MEASURING RELAYS / MONITORING RELAYS



FAULT ANNUNCIATORS



ACCESSORIES

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LATCHING / INTERFACE / SWITCHING RELAYS

The DOLD toggle, coupling and switch relays are the first choice for all interface applications in demanding control systems. They connect the highly sensitive logic level of the SPS, a shelf system or process computer with the raw operation of the power levels of a machine. Installation and maintenance of the relays can be conducted in a time-saving manner with the snap-on plug-in sockets on the top-hat rail.



INTERFACE RELAY



LATCHING RELAY



INTERFACE RELAY –
VOLTAGE AC OR AC/DC



INPUT-OUTPUT
INTERFACE RELAY



STEPPING RELAY



CONTACT PROTECTION RELAY

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MULTIFUNCTION
RELAYS



TIMERS
ON DELAYED



TIMERS
OFF DELAYED



CYCLIC
TIMERS

TIME RELAYS FOR APPLICATIONS WITH HIGH DEMANDS

DOLD has been a renowned, innovative manufacturer in the field of timer technology for decades that has continued to set standards with its developments. Time relays, that is, relays with specific time response, help you to cost-effectively realize start-up and shut-down delays in industry and building technology. This timer technology includes both electro-mechanical and electro-pneumatic time relays as well as electronic devices on the basis of modern microprocessor technology.

DOLD



INSULATION MONITORING: BESS, EV CHARGING, SOLAR, MEDICAL, DATA CENTERS AND GENERATORS



INSULATION MONITOR RN 5897/300



INSULATION MONITOR LK 5895



INSULATION MONITOR RN 5897/320



INSULATION MONITOR RN 5893 (MODBUS)



BATTERY SYMMETRY MONITOR UH 9830



DC VOLTAGE RELAY, FOR MODBUS

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SOFTSTARTERS, SOFTSTOP AND MOTOR BRAKE RELAYS

DRIVE TECHNOLOGY, MOTORSTARTER

Solutions for smart drive technology monitoring with softstarters, motorstarters, solid state relays / solid state contactors as well as motor braking devices and reversing contactors. In the field of smart drive technology, Dold offers powerful and flexible device solutions such as softstarters and softstop devices, smart motorstarters, motor braking devices, reversing contactors as well as solid state relays / solid state contactors and speed controllers or phase controllers. In today's machines and systems, the most commonly used drive is the three-phase asynchronous motor. Processes such as starting, reversing and braking motors are among the main tasks of electronic switching devices. Where high switching frequencies or high switching cycles are required, solid-state switching devices have proven themselves in industry. With their long service life due to wear-free switching, they solve switching and control tasks in specific applications in a particularly economical way.



SOFTSTARTERS

Allow gentle control of motors as well as simplified monitoring of drives in a wide range of applications.



MOTOR BRAKE RELAYS

Wear- and maintenance-free, allows quick stop of dangerous parts, preventing accidents as well as machine damage.



MOTORSTARTER

Offer a combination of motor control and drive monitoring and are also referred to as multifunctional motor control devices.



SOLID STATE RELAYS / SOLID STATE CONTACTORS

Wear-free and noiseless switching. Withstands repeated loads and high temperatures.



REVERSING CONTACTORS

Used to change the direction of rotation of asynchronous motors, to start them smoothly and/or to monitor their load.



SPEED CONTROLLER / PHASE CONTROLLER

Robust electronic switching devices for voltage adjustment by means of phase cutting.

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.steute

WIRELESS CONTROL SOLUTIONS

The premium switches and sensors from .steute are developed to the highest quality and safety standards and are well suited to use in complex application fields. Our products can be used flexibly in many different applications throughout all industries.

Ex-protected switches and sensors from .steute Controltec



COMMAND FUNCTIONS



SOLENOID INTERLOCKS

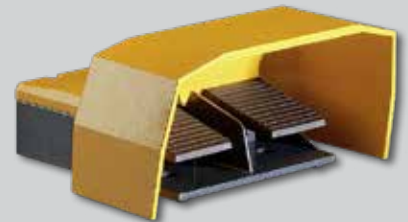


WIRELESS POSITION SWITCHES



EMERGENCY ROPE PULL SWITCHES

Reliable wireless switches and sensors from .steute Controltec



FOOT SWITCHES



INDUCTIVE SENSORS

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COMMAND DEVICES



OPTICAL & LASER SENSORS

Top-quality safety switches and safety sensors from .steute Controltec reliably implement safety functions



IP69K RATED FOOT SWITCHES



IP69K -40° SAFETY SENSOR



EX PROOF SAFETY SENSOR



COMMAND DEVICES TO -60°

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LIMIT AND POSITION SWITCHES, SAFETY SWITCHES, RFID AND IO-LINK

Extreme Modularity and Customization:

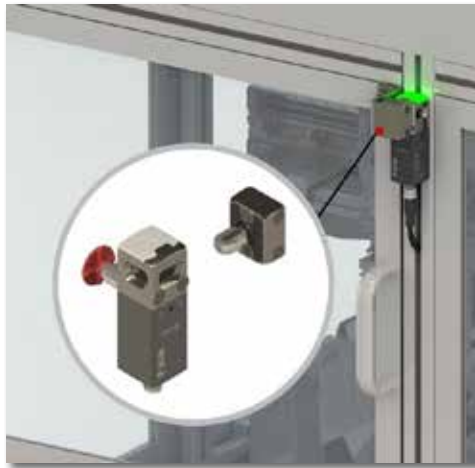
Pizzato offers one of the world's widest ranges of position switches, with over 12 million possible configurations. Their modular approach allows users to combine dozens of contact blocks with hundreds of different actuators and body shapes.

Advanced RFID Safety Technology:

A leader in contactless safety switches (such as the ST and NS series). These devices utilize digitally coded RFID technology to prevent tampering and manipulation, achieving the highest safety levels () with a single device. SIL3 and PLe

High Mechanical Durability:

Many switches are designed for heavy-duty environments, featuring mechanical lives of up to 20 million switching cycles. Components often carry high ingress protection ratings like, making them resistant to dust, water, and high-pressure cleaning. IP67 and IP69K



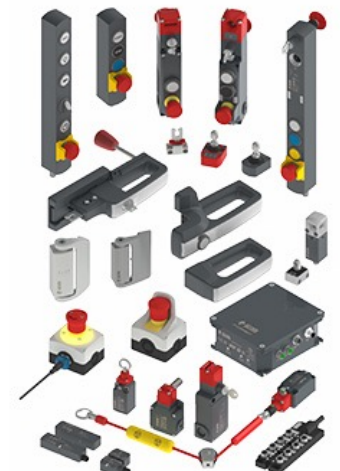
NX SERIES NOW ALSO IN
AISI 316L STAINLESS STEEL



BN CONTROL UNIT WITH
IO-LINK TECHNOLOGY



ES HOUSING WITH RAISED
ILLUMINATED GUARD AND BUZZER



SAFETY DEVICES

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NS SERIES SAFETY SWITCHES WITH SOLENOID AND RFID TECHNOLOGY



NS SERIES WITH INTEGRATED CONTROL DEVICES



POSITION SWITCHES



LIFT DEVICES

Installation Efficiency:

Innovations like the and P-Connect gateway IO-Link technology simplify wiring through plug-and-play functionality and daisy-chainable connectors, drastically reducing installation time and providing real-time diagnostics.

Bistable Low-Energy Solutions:

New series like the NX use a bistable operating principle for solenoid switches, which only requires short electrical pulses to change state. This reduces energy consumption and prevents the switch from warming up during operation.

Specialized Lift Solutions:

Dedicated control stations (EL series) for elevators – ultra-slim and modular, tamper-resistant designs where fixing screws are hidden behind the station once mounted.

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INTERACTIVE APPLICATION & PRODUCT GUIDE

Need Help Finding the Right Industrial Safety Solution Faster?

The ISC Interactive Application & Product Guide makes it easy to connect the right products to the right application – from robotic integration and palletizing to BESS / Solar / EV Charging, metalforming, stamping, and more. Our new Interactive Application & Product Guide lets you explore real-world applications and simply click on the safety products you need – taking you to detailed options, specs, and solutions tailored to your operation.

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- FIND SOLUTIONS
- IMPROVE SAFETY
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- DISCOVER THE RIGHT PRODUCTS
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*** Watch for more industrial application settings to be added.*



Introducing Your **INTERACTIVE** APPLICATION & PRODUCT GUIDE



Robotic Integration

- Robotic Safety Interlocks
- Safety & Control Systems
- Safety Safety Systems
- Emergency Stop Buttons
- Emergency Stop Buttons with Stop and Reset
- Safety Relays for Safety Circuits

Conveyor & Material Handling

- Safety Safety Interlocks
- Safety & Control Systems
- Safety Safety Systems
- Emergency Stop Buttons
- Emergency Stop Buttons with Stop and Reset
- Safety Relays for Safety Circuits

Autonomous Mobile Robots

- Robotic Safety Interlocks
- Safety & Control Systems
- Safety Safety Systems
- Emergency Stop Buttons
- Emergency Stop Buttons with Stop and Reset
- Safety Relays for Safety Circuits

Safety Relays - SIL3 Cat4 PLe

- Dead - E-Stop & Door Switches
- Dead - Zero Speed - Speed Monitoring
- Dead - Time Delayed Output
- Dead - Wireless Safety
- Dead - Independent Input/Outputs
- Dead - Safety Mat
- Dead - Safety Edge
- Dead - Two-Hand Control

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- Safety relays & control solutions
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