



INDUSTRIAL CONTROL

SAFETY PRODUCTS CATALOG



// BENEFITS

- Totally waterproof (IP67 or IP69K)
- Resistant to high temperatures
- Resistant to high pressure cleaning and washing detergents.
- They can be used where they come in direct contact with food since there is no risk of bacterial development.
- Laser marking ensures that the inscription on the switches remains readable for the life of the switch.
- Coded non-contact
- Wash down rated
- Contactless interlocking
- ATEX Proof

// SAFETY SWITCHES, MAGNETS, RELAYS AND LOCKS

V5 GROUP safety products include coded non-contact safety switches in rugged plastic and stainless steel housings rated for wash-down and corrosive atmospheres, contactless interlocks and a wide variety of safety relays. Products are complying with the latest safety standards and approvals, and help to reduce the machine downtime due to faulty switches. This series Safety Switches are popular within the Food and Beverage industry, since mechanical switches are often prohibited because of the risk of bacteria and dirt gathering in the interstices. The switches consist of a receiver and a transmitter, that can be mounted on doors and cranks of dangerous machines. When the door is opened, the switch stops the dangerous function, until the door is closed again. Thanks to an innovative, entirely electronic process called ACOTOM®, which is based on a multi-decoding system (unlike reed switches), P2 offers a reliable safety solution that is totally vandal-proof. Stainless steel or rugged plastic housings ideal for corrosive atmospheres. Safety Relays come in a wide variety and comply with the latest safety standards and approvals. They are ultra-reliable and reduce machine downtime due to faulty switches.

- AMX3 and 5 – the first standalone non-contact switch approved PLd according to ISO13849-1, with integrated control system.
- EPINUS, BOSTER – safety switches with a magnetic latch of 2 or 4 kgs, keeping doors magnetically closed is an ideal solution for machines with vibration.
- TRITHON - totally waterproof, IP69k rated, resistant up to 110° C.

// SAFETY PUSH BUTTONS

- B22 and B30 Series - Capacitive technology luminous bicolor touch control button
- B22 OEM - Bicolor luminous touch control button with capacitive technology for integration
- KB 100 Series - Capacitive technology luminous bicolor touch control button
- KOB 308 Series - Optic technology luminous bicolor touch control button
- KOB 508 - Dual technology optical/capacitive luminous touch control button
- KOB 110T Series - Dual technology optical/capacitive luminous touch secure stop button
- KOB 101T - Two-hand dual-technology touch control button for enhanced security
- KOB 608 - Touch button access request with tricolor lighting
- V22 series, V30 and V30-SPOT - Indicators and LED technology tricolor luminous lighting
- BX1 & BX2 - A KOB101T kit enables a complete two-hand control (+ 2xKOB101T 1xCOM3C). The KOB101T is a button that mixes two technologies, optical and capacitive.



// BENEFITS

- Totally waterproof (IP67 or IP69K)
- Double-hand push buttons system
- No mechanical action needed, easily replaces mechanical pushbuttons
- Bi color LED illuminated, very bright
- Housed in a rough housing, designed to be vandal resistant
- Conformity with the hygiene standards (EN 1672-2)
- IP69, wide temperature operation
Lifetime expectancy 100 000h/ 10 years
- Momentary, toggle or time-delayed in one button
- Option vibrating function as a confirmation signal
- PLC compatible

Safety stand-alone switches · Safety interlock · Safety locks · Safety relays · Safety modules · Safety push buttons · Double hand push button · Safety ATEX products
 Safety light curtains · Safety pressure mats · Safety thermostat · RFID – Access control & alarm solutions · Safety limit switches · Safety limit switches



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// SAFETY RFID, THERMOSTAT, PRESURE AND INTERLOCK SWITCHES

Interlocking Devices

- New concept for door safety interlocking - Interlocking devices are solutions used to protect operators from dangerous parts of machinery. They represent an important and fundamental element to be integrated as from the early stages of the conception of the machine Safety Lock

Lock Magnets

- Non-contact magnetic locking with embedded coded safety switch including two functions in one item , it holding of the guard doors and controlling the door opening with the ACOTOM® decoding process

Safety Operation Switches

- The safety switches take advantage of the RFID technology to improve safety level and operations modes. RFID coded safety switches used to control the position of movable guard doors on machines, they are available in standalone or combined with external safety relay modules

Pressure & Vacuum safety switches

- Safety vacuum switch was designed to control safety in vacuum or high pressure applications for example: VS model monitors vacuum levels in food packaging, safety control of vacuum pumps etc. and VC model monitors fluid levels

Safety Thermostat Switches

- The Safety Thermostat was designed to prevent from personal contact with potentially hot or low temperatures surfaces. The INOX 316L housing IP69K ss316L enclosure insures high level product quality and integrity, usually used food industry industrial oven doors safety or any area to be protected against excessive temperatures in temperature range: -40°C to +180°C

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// SAFETY LIGHT CURTAINS

NEW generation PROTECT series Safety Light Curtains

- For Food & Beverage industry TUV Certification – German standard DIN 40050-9 Wide range of smart safety solutions including muting systems, heated systems for cold areas, safety control systems, accessories etc. The transparent cylinder with protection degree IP67 and IP69K is used especially in industrial environment where washing is done with high pressure, high temperature (eg. food industry), low temperatures zones and standard machinery protection. The PROTECT series also has a total protection against the dust

For efficient detection of machine operators in hazardous zones

- NEFTIM introducing PROTECT series safety light curtains that protect machine operators while enabling partial or full access into the hazardous zone during machine loading/unloading and for adjustment or maintenance operations.

Simple to use

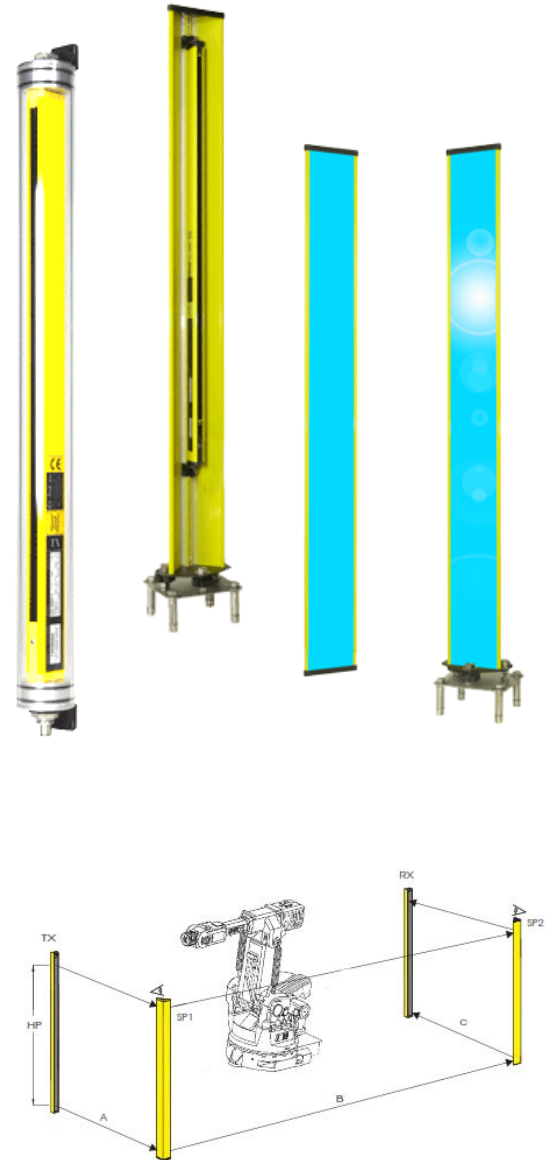
- An optimized range of light curtains with embedded safety functions such as automatic or manual start/restart and External Device Monitoring (switching devices monitoring, e.g. relays or contractors).

Compact for easy installation

- With only 1.1 x 1.2" (29mm x 31.5mm) cross section, PROTECT is one of the most compact products on the market with all key features embedded.

Compliant with safety certifications

PROTECT offers compliance with safety standards up to type 4, SIL 3, PLe according to EN ISO 13849-1, IEC 61508, IEC 62061, IEC 61496-1 and IEC 61496-2 standards.



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// SAFETY ROPE SWITCHES

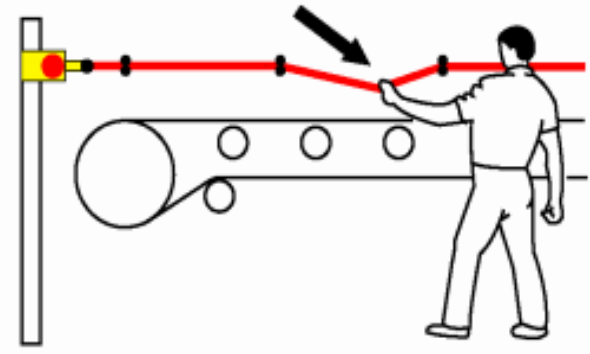
Safety rope switches

immediately switch off the machine drive if the rope is pulled or there is a tear in the rope. This condition remains locked till the reset pushbutton is pressed when the rope is under correct tension.

Different variants are available for different rope lengths. An additional emergency stop key can be mounted on both sides of the switches.

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- Resistant to high temperatures
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- They can be used where they come in direct contact with food since there is no risk of bacterial development.
- Switches off by breakage or tension loss
- Locking in switch-off position, manual resetting
- 3 safety contacts NC / 1 NO
- Protect hazards up to 100 m
- Rope tension indicator (pulled, slack, initial pretensioning)



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// SAFETY MATS, EDGES AND BAMPERS

Safety Mats

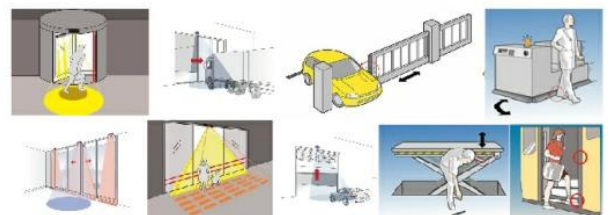
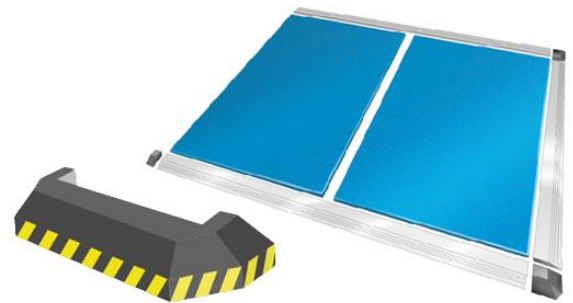
- The safety mat has been designed and manufactured in accordance with the basic safety and human health requirements. In particular, it is in conformity with the following harmonized standards for risk prevention - EN ISO 12100, EN ISO 13856-1 and EN ISO 13849-1. SAFETY MAT is a "safety component" which acts as an "electrical, pressure sensitive device designed to detect the presence of a human body". It represents a "safety device equipped with one or more sensors, able to detect when a pressure is being applied, and it is combined with a control device with a check function, according to the specific category, and with an output interface. The working principle of the equipment essentially consists on the capacity to cause a change of state of an electric signal when some force/pressure will be applied onto the surface of the "safety mat" sensor.

Safety Edges

- Pressure-sensitive edges are used to eliminate the risk of crashing or shearing associated with the operation of sliding doors, movable bulkheads, automated movable guards, electric doors, etc.

Safety Bumpers

- Pressure sensitive bumpers are used to provide protection of persons against impacts with vehicles or parts of machines in motion such as AGVs, travelling lifts, wire-guided vehicles, automated warehouses, etc. In according to Standards EN ISO 13856-3 and EN ISO 13849-1
- Coating with waterproof fabric
- PVC coating
- Anti-spark coating



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