

STI Safety Switches



Safety Laser Scanner

The STI OptoShield OS3100 uses harmless laser light to sense an intrusion into a guarded area. It can be configured for multiple irregularly shaped hazardous areas, making it an excellent choice for safeguarding

work cells, transfer lines, robot stations, and automated guided vehicles. Easy to install and program. Each detection set has both a safety zone and a warning zone. Does not need receivers or reflectors. **Part No. OS3100**



Safety Light Curtains

STI provides seven light curtain families to solve your optical guarding because one size does not fit all. Our safety light curtain designs allow you to tailor a system for the lowest possible system cost,

so you're only paying for what you need. From tight spaces to perimeter guarding, we provide the correct product for the job. Call for more information about design and installation. **Part No. SLC**



Perimeter Guarding

The STI Perimeter Access Guarding Device PA4600 provides guarding of robot centers and large automated machinery. Cost effective solution where multiple beam protection is required. May be used with mirrors

to direct the infrared beams to four sides of a machine. Up to 70 meter operating range. Choice of three operating modes: Automatic Start, Start Interlock and Start/Restart Interlock. **Part No. PA4600**



Perimeter Guarding

A STI Beam Safe II can be used for regular and long-range perimeter guarding applications. Perfect for applications where multiple beams are not required. Can be used with or without mirrors. Several models

provide 14 to 60 meter operating range. Four possible transmit codes eliminate cross talk from multiple units in the same area. No interconnecting cables required, which speeds long-range installations. **Part No. BS3-C**



Safety Mats & Edges

STI safety mats offer operators freedom and enhanced safety, and may also reduce the occurrence of cumulative trauma disorders. Excellent resistance to acids, alkalis and salts. Chemical and

abrasion resistance. Expected life of over one million actuations. Available in many standard and metric sizes. Single piece molded construction will not delaminate. **Part No. USM-001**



Safety Mat Controller

STI safety mat controller are used in conjunction with four-wire, normally open, safety mats where perimeter guarding is required. The controller sends a stop signal to the guarded machine whenever an object with

sufficient weight is detected on the active mat surface. These controllers improve productivity while providing access guarding. Full visibility of and accessibility of the work area is always maintained. **Part No. MC-6**



Enabling Switch Device

The STI Enabling Switch Device provides the margin of safety needed during troubleshooting, set-up, programming or servicing of robotic or automated machinery when no other safety devices are

possible or practical as required by ANSI/RIA R15.06. Other models include one with an emergency stop switch and another with a momentary operation switch **Part No. A4EG**



Bumpers & Contact Strips

The safety edge or safety bumper are flexible strips which can be fixed to the edge of a moving part such as a machine table or powered door where there is a risk of a crushing or shearing hazard.

If the moving part that includes the safety edge or bumper strikes operator (or vice versa) the flexible safety edge is depressed and will send a signal to the power source to stop. Many sizes are available. **Part No. STI**



STI Safety Switches



Rope Pull E-Stop Switch

Reset button-the blue reset button must be pushed in order to return to "machine run" condition following switch actuation by a pulled or slacked rope. Long rope spans up to 80 m (262 ft.) means fewer number

of switches required per application. Tension indicator-the tension indicator makes the system easy to set up and to maintain the proper rope tension. Many models available. Call for a quote. **Part No. ER6022**



Safety Interlock Switch

Easy installation-compact footprint of 2.25 x 5.25 in. and rotatable head allowing 4 possible actuator entry points makes installation easy. Optional override key allows manual unlocking of the guard while, at the

same time, locking the safety contacts open. High locking force of 1000 N (225 lbs.) locks guard door shut until machine is safe to enter. NEMA 6 enclosure. Many models available. Call for a quote. **Part No. TL5012**



Magnetic Interlock Switch

A fully monitored system that meets Category 3 when 1 to 30 plus switches are used with the CM Control Units. Magnetically coded switches are tamper resistant to common magnets. NEMA 6 switch

enclosures satisfy most application requirements. Misalignment tolerance of (5 and 9 mm) reduces nuisance tripping. Many models are available. Call for more information or a quote. **Part No. CM-S2**



Two-Hand Control

TouchStart™ capacitive palm switches for two hand control applications actuate with a soft touch. No physical pressure is required, and they are sensitive enough to work even when an operator

is wearing gloves. The TouchStart is used for many machines where two-handed control of the machine cycle is desired. Many models are available. Please call for more information. **Part No. STI-THC**



Force Guided Relays

Force-guided (or positively-guided) relays have contacts that are mechanically interlocked such that two contacts on the relays will not contradict each other, even in the event that the relay welds. Force-

guided relays have contacts that are force-guided/mechanically linked conforming to IEC60947-1-1 as required for use in safety-related control systems. Many models available. Call for a quote. **Part No. FGR**



Safety Monitoring Relay

The STI CM-S4 controller is designed to work with non-contact switches with dry contacts. This unit provides EDM (External Device Monitoring). The NEMA 6 enclosure makes it ideal for harsh environments.

The CM series switch and actuators are available in four sizes plus a stainless steel version to accommodate a variety of applications. Call for a quote. **Part No. SR103**



Magnetic Switch Controller

The CM-S4 controller is designed to work with non-contact (magnetic) switches with dry contacts 1 N/C + 1 N/O. The STI control units provides EDM (External Device Monitoring). This allows the CM control units to

replace a safety relay in most applications. The NEMA 6 encapsulated design of the CM Series switch makes it ideal for harsh environments. This unit can control 1 to 30 switches at Cat 3 protection. **Part No. CM-S4**



LazerSafe for H. Press

Controls the point of operation through closed-loop monitoring of speed, direction, position and stopping distance of the ram. Dual flat bands of continuous laser light detect obstructions as small as 4mm

while still being vibration tolerant. Fast and easy setup, real-time operational mode status, password protection for supervisory control, and protective field status. Integration services available. **Part No. STI-Lazer**

