

## Description

The Spartan is a positive mode, tongue operated guard locking interlock switch that locks a machine guard closed until power is isolated and ensures that it remains isolated while the guard is open. It is available in two contact configurations: two safety (N.C.) contacts and one auxiliary (N.O.) contact or three safety (N.C.) contacts. The Spartan head has two entry slots and it can be rotated to provide four actuator entry points. A blanking plug is provided to seal the unused slot.

The guard may only be opened when a signal is applied to the Spartan's internal solenoid which releases the lock mechanism. Therefore the Spartan is ideal for machines which do not stop immediately or where premature interruption of the machine could cause damage to tooling and components or cause an additional hazard.

The locking mechanism withstands forces up to of 1200N (270lbs.) and an LED provides visual indication of switch status.

A catch kit with actuator alignment is also supplied to relieve stress on the locking solenoid and to protect the unit from actuator damage due to poor guard alignment. Manual release points with security screws or special key allow the locked Spartan to be released in the event of total power failure on a machine.

## Features

- Power to release
- Lid mounted status indication
- High locking force- 1200N (270lbs.)
- 2 N.C. \& 1 N.O. or 3 N.C.
- Rotatable head: 4 possible key entry slots


## Specifications

| Standards | EN 954-1, ISO 13849-1, IEC/EN 60204-1, N FPA 79, EN 1088, ISO 14119, IEC/ EN 60947-5-1, AN SI B11.19, A S4024.1 |
| :---: | :---: |
| C ategory | Cat. 1 Device per EN 954-1 Dual channel interlocks suitable for C at. 3 or 4 systems |
| Approvals | CE marked for all applicable directives, cULus and TUV Nord |
| Safety C ontact | 2 N .C. or 3 N .C. direct opening action |
| Utilization Cat. <br> AC (Ue) <br> (le) <br> DC | $\begin{aligned} & \mathrm{AC} 15 \\ & 500 \mathrm{~V} 250 \mathrm{~V} 100 \mathrm{~V} \\ & 1 \mathrm{~A} 2 \mathrm{~A} 5 \mathrm{~A} \\ & 250 \mathrm{~V} / 0.5 \mathrm{~A} \quad 24 \mathrm{~V} / 2 \mathrm{~A} \end{aligned}$ |
| Maximum Switched Current/ Volt/Load | 500V/500VA |
| Thermal C urrent (lth) | 10A |
| Min Current | 5 V 5 mA DC |
| Safety C ontact Gap | $>2 \mathrm{~mm}$ |
| Rtd. Insulation Voltage | 500 V |
| Rtd. Impulse withstand Volt | 2500 V |
| Auxiliary C ontacts | 1 N.O. |
| Pollution D egree © | 3 |
| Max Actuation Speed | $160 \mathrm{~mm} / \mathrm{second}$ ( $6.3 \mathrm{in} / \mathrm{sec}$ ) |
| Max Actuation Frequency | 1 cycle/second |
| C ase Material | UL A pproved glass filled polyester |
| Actuator M aterial | Stainless steel |
| Protection | IP 67 |
| Conduit Entry | $1 \times \mathrm{M} 20$ or quick disconnect style |
| O perating Temperature | $-20^{\circ} \mathrm{C}$ to $60^{\circ} \mathrm{C}\left(-4^{\circ} \mathrm{F}\right.$ to $\left.+140^{\circ} \mathrm{F}\right)$ |
| Fixing | $2 \times \mathrm{M} 5$ |
| Mounting | Any position |
| Mechanical Life | 1,000,000 operations |
| Electrical Life | 1,000,000 operations |
| W eight | 260 g (0.57 lb) |
| Colour | Red |
| Max Holding Force | 1200N (270lbs) |
| Min 0 perating Radius | 175mm (6.9in) |
| LED Indication | Solenoid monitor LED |
| Power Supply | $\begin{aligned} & \text { 24V AC/DC, 110V AC, } 230 \mathrm{~V} \mathrm{AC} \\ & \text { (solenoid) } \end{aligned}$ |
| Solenoid Power | Typically 7W 100\% ED |

## Typical Applications



Note: Litt-ott guards require good alignment when using
tongue actuated interlock switches.
IMPO RTANT: It must not be possible to lift the guard without actuating the interlock. An interlock on either side may be required.

Product Selection

| Actuator | Solenoid Voltage | Contacts |  | Catalogue Number |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Safety | Aux. | M20 Conduit | M20 Conduit/ 1/2in Adaptor | Quick Disconnect |
| Standard | $24 \mathrm{~V} \mathrm{AC/DC}$ | 2N.C. | 1N.0. | 440G-S36001 | 440G-S36044 | 440G-S36058 |
|  |  | 3 N.C. | - | 440G-S36007 | 440G-S36047 | 440G-S36059 |
|  | 110 V AC/DC | 2 N.C. | 1 N.O. | 440G-S36003 | 440G-S36045 | 440G-S36060 |
|  |  | $3 N . C$ | -- | 440G-S36009 | 440G-S36048 | 440G-S36061 |
|  | 230 V AC/DC | 2 N.C. | 1 N. 0 . | 440G-S36005 | 440G-S36046 | 440G-S36062 |
|  |  | 3 N.C. | - | 440G-S36011 | 440G-S36049 | 440G-S36063 |
|  | Mating cable 2 m (6.5ft). See page 15-13 for details and additional lengths. |  |  |  |  | 889M-F12X9AE-2 |

Accessories

|  | Description | For Dimensions refer to page | Catalogue Number |
| :--- | :--- | :---: | :---: |
|  | Replacement Actuator with Catch <br> Retainer and Guide | $14-4$ | 440G-A36050 |
|  |  |  |  |

## Guard Locking Switches

Spartan
Approximate Dimensions-mm (inches)
D imensions are not intended to be used for installation purposes.


## Typical Wiring Diagrams




AB Allen-Bradley

## Application Details

4 possible actuator entry positions


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