## T4012

## Universal Tongue-Operated Safety Interlock Switch

- Strong and versatile--the compact size of the strong, glassfilled thermoplastic housing allows this switch to be used in most applications
- NEMA 6 enclosure enables these switches to withstand water washdown cleaning
- Rotatable head gives eight possible actuator entry points for versatile installation. A blanking plug is supplied for the unused entry.
- Long life-these switches, with their stainless steel actuators, are designed for a minimum of two million actuations
- Available in 2 or 4 contact pole versions. The 4 contact pole version provides 2 poles for dual channel safety monitoring and 2 additional poles for status monitoring.
- An optional stainless steel guide is available for demanding applications
- A Rapid Delivery Product: Select models are available for shipment today or within 3 to 5 days


## Specifications



| Electrical | All Models |
| :---: | :---: |
| Contact Configurations: | $1 \mathrm{~N} / \mathrm{C}+1 \mathrm{~N} / \mathrm{O}, 2 \mathrm{~N} / \mathrm{C}, 2 \mathrm{~N} / \mathrm{C}+2 \mathrm{~N} / \mathrm{O}, 3 \mathrm{~N} / \mathrm{C}+1 \mathrm{~N} / \mathrm{O}, 4 \mathrm{~N} / \mathrm{C}$ |
| Safety Contacts: | $2 \mathrm{~N} / \mathrm{C}$ positive break |
| Switching Ability | AC: $230 \mathrm{~V}, 4 \mathrm{~A}$ |
|  | DC: $24 \mathrm{~V}, 4 \mathrm{~A}$ |
| Contact Material: | Silver alloy, gold flashed |
| Auxiliary Contacts: | $1 \mathrm{~N} / \mathrm{O}, 2 \mathrm{~N} / \mathrm{O}$ |
| Minimum Switching Voltage: | 12 V at 10 mA |
| Minimum Switching Current: | 1 mA at 24 V |
| Mechanical |  |
| Mounting: | Any position |
| Mounting Hardware: | $2 \times \mathrm{M} 5$ screws (not supplied) |
| Actuator Travel for Positive Opening: | 5 mm (0.197 in.) |
| Min Operating Radius: | Approximately 100 mm ( 3.9 in .) with flex actuator Approximately 1000 mm (39 in.) with flat or 90-degree actuator |
| Break Contact Min Force: | 25 N (5.6 lb.) |
| Max Actuation Speed: | $20 \mathrm{~m} / \mathrm{min}$. |
| Max Actuation Frequency: | 112 cycles/min. |
| Case Material: | Glass-fibre reinforced thermoplastic |
| Actuator Material: | Stainless steel |
| Wiring Entry: | $3 \times \mathrm{M} 20$ conduit with 0.5 in . NPT adapter |
| Weight: | $141 \mathrm{~g} \mathrm{(5} \mathrm{oz)}$. |
| Color: | Black with red lid |
| Mechanical Life: | $2 \times 10^{6}$ minimum |
| Environmental |  |
| Protection: | IP67 (NEMA 6) |
| Operating Temperature: | -20 to $80^{\circ} \mathrm{C}$ (-4 to $176^{\circ} \mathrm{F}$ ) |
| Cleaning: | Water washdown |
| Compliance |  |
| Standards: | EN1088, EN292, EN60947-5-1, EN60204-1 |
| Approvals/Listings: | CE marked for all applicable directives, UL and C-UL, DGUV |
| Reliability Data |  |
| per EN ISO 13849-1: | B10d: 2.00E+06 |

Specifications are subject to change without notice.
Note: The safety contacts of the STI switches are described as normally closed (N/C)—
i.e., with the guard closed, actuator in place, and the machine able to be started.

## Select models are available for Rapid Delivery.

Visit this product on www.sti.com for details.

## Operation



## Contact Arrangements



## Flexible 1 Actuator

15 degree flexibility may be adjusted with the set screw.


## Flat Actuator

Available with and without rubber bushings.


Flexible 2 Actuator
15 degree flexibility may be adjusted with the set screw.


## 90-Degree Actuator

Available with and without rubber bushings.


## Optional Alignment Guide

Optional stainless steel alignment guide aids actuator entry and is easily installed


## Optional Slide Bolts

- Allows easy installation of switch on machine guards
- Actuator included (order switch separately)
- Integral handle included
- Robust for use with heavy doors
- Slotted hole in bolt permits attaching multiple padlocks

- Yellow color for easy recognition


Optional SLD Series
Optional switch locking devices are available. See accessories section for details.


## Applications

Typical applications are on sliding guard doors or swinging guard doors.


24VAC/DC, 110VAC, 230VAC


For a full explanation of the circuit operating principle and fault detection,
see "Common Circuit Examples" in the Expert Area Section of this catalog on page G-103
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Flexible 1 Actuator


Overtravel Flat Actuator


## Overtravel

 90-Degree Actuator

Min. door radius $\frac{1000}{39.4}$

Flexible 2 Actuator


T4012 Safety Interlock Switches
Ordering

| Model | Contacts | Wiring Entry | Part No. |
| :---: | :---: | :---: | :---: |
| T4012 90-Degree Actuator |  |  |  |
| T4012-011SM | $1 \mathrm{~N} / \mathrm{C}+1 \mathrm{~N} / \mathrm{O}$ | M20/NPT adapter | 44538-0010 |
| T4012-020SM | $2 \mathrm{~N} / \mathrm{C}$ | M20/NPT adapter | 44538-0020 |
| T4012-031SM | $3 \mathrm{~N} / \mathrm{C}+1 \mathrm{~N} / \mathrm{O}$ | M20/NPT adapter | 44538-0030 |
| T4012-022SM | $2 \mathrm{~N} / \mathrm{C}+2 \mathrm{~N} / \mathrm{O}$ | M20/NPT adapter | 44538-0040 |
| T4012-040SM | 4 N/C | M20/NPT adapter | 44538-0050 |
| T4012 Flat Actuator |  |  |  |
| T4012-011TM | $1 \mathrm{~N} / \mathrm{C}+1 \mathrm{~N} / \mathrm{O}$ | M20/NPT adapter | 44538-0110 |
| T4012-020TM | $2 \mathrm{~N} / \mathrm{C}$ | M20/NPT adapter | 44538-0120 |
| T4012-031TM | $3 \mathrm{~N} / \mathrm{C}+1 \mathrm{~N} / \mathrm{O}$ | M20/NPT adapter | 44538-0130 |
| T4012-022TM | $2 \mathrm{~N} / \mathrm{C}+2 \mathrm{~N} / \mathrm{O}$ | M20/NPT adapter | 44538-0140 |
| T4012-040TM | $4 \mathrm{~N} / \mathrm{C}$ | M20/NPT adapter | 44538-0150 |
| T4012 Flex 2 Actuator | Contacts | Wiring Entry | Part No. |
| T4012-011F2M | $1 \mathrm{~N} / \mathrm{C}+1 \mathrm{~N} / \mathrm{O}$ | M20/NPT adapter | 44538-0210 |
| T4012-020F2M | $2 \mathrm{~N} / \mathrm{C}$ | M20/NPT adapter | 44538-0220 |
| T4012-031F2M | $3 \mathrm{~N} / \mathrm{C}+1 \mathrm{~N} / \mathrm{O}$ | M20/NPT adapter | 44538-0230 |
| T4012-022F2M | $2 \mathrm{~N} / \mathrm{C}+2 \mathrm{~N} / \mathrm{O}$ | M20/NPT adapter | 44538-0240 |
| T4012-040F2M | 4 N/C | M20/NPT adapter | 44538-0250 |
| T4012 Flex 1 Actuator |  |  |  |
| T4012-011F1M | $1 \mathrm{~N} / \mathrm{C}+1 \mathrm{~N} / \mathrm{O}$ | M20/NPT adapter | 44538-0310 |
| T4012-020F1M | $2 \mathrm{~N} / \mathrm{C}$ | M20/NPT adapter | 44538-0320 |
| T4012-031F1M | $3 \mathrm{~N} / \mathrm{C}+1 \mathrm{~N} / \mathrm{O}$ | M20/NPT adapter | 44538-0330 |
| T4012-022F1M | $2 \mathrm{~N} / \mathrm{C}+2 \mathrm{~N} / \mathrm{O}$ | M20/NPT adapter | 44538-0340 |
| T4012-040F1M | $4 \mathrm{~N} / \mathrm{C}$ | M20/NPT adapter | 44538-0350 |
| Switch Only Models (no actuators and no adapters included) |  |  |  |
| T4012-011 | $1 \mathrm{~N} / \mathrm{C}+1 \mathrm{~N} / \mathrm{O}$ | M20 | 44538-2010 |
| T4012-020 | $2 \mathrm{~N} / \mathrm{C}$ | M20 | 44538-2020 |
| T4012-031 | $3 \mathrm{~N} / \mathrm{C}+1 \mathrm{~N} / \mathrm{O}$ | M20 | 44538-2030 |
| T4012-022 | $2 \mathrm{~N} / \mathrm{C}+2 \mathrm{~N} / \mathrm{O}$ | M20 | 44538-2040 |
| T4012-040 | 4 N/C | M20 | 44538-2050 |
| Accessories |  |  |  |
| Standard Actuators |  |  |  |
| Replacement flat actuator |  |  | 44534-0700 |
| Replacement 90-degree actuator |  |  | 44534-0710 |
| Replacement flex 2 actuator |  |  | 44534-0720 |
| Replacement flex 1 actuator |  |  | 44534-0730 |
| Standard Actuators with Rubber Bushing |  |  |  |
| Replacement flat actuator RB |  |  | 44534-0740 |
| Replacement 90-degree actuator RB |  |  | 44534-0750 |
| Overtravel Actuators |  |  |  |
| Replacement flat actuator OT |  |  | 44534-0701 |
| Replacement 90-degree actuator OT |  |  | 44534-0711 |
| Replacement flex 2 actuator OT |  |  | 44534-0721 |
| Replacement flex 1 actuator OT |  |  | 44534-0731 |
| Overtravel Actuators with Rubber Bushing |  |  |  |
| Replacement flat actuator OTRB |  |  | 44534-0741 |
| Replacement 90-degree actuator OTRB |  |  | 44534-0751 |
| Slide Bolts |  |  |  |
| Bracket with handle for right-hung door (yellow metal) |  |  | 44534-8130 |
| Bracket with handle for left-hung door (yellow metal) |  |  | 44534-8140 |
| Bracket (galvanized) |  |  | 44534-8020 |
| Plastic slide bolt for right or left-hung doors for T4012 (yellow) |  |  | 44534-8070 |
| Handle without snap-in (use with 44534-8020 bracket) (galvanized) |  |  | 44534-8000 |
| Handle with snap-in (use with 44534-8020 bracket) (galvanized) |  |  | 44534-8010 |
| Miscellaneous |  |  |  |
| Stainless steel alignment guide (must use with overtravel Actuators) |  |  | 44534-0780 |
| Latch spring (provides greater retention force for actuator) |  |  | 44534-0760 |
| Lockout bar (prevents insertion of actuator into switch) |  |  | 44534-0770 |
| Replacement head for T4012 |  |  | 44534-0790 |

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