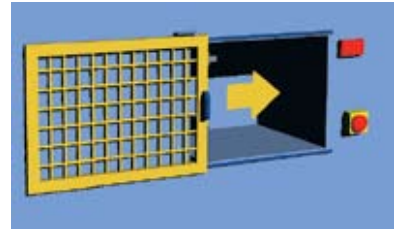




Conforms to EN1088, EN60947-5-1, EN60204-1  
UL and C-UL listed, BG approved

### ■ Applications

Typical applications are on sliding guard doors or swinging guard doors with a 6 in. minimum swing radius.



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safety interlock switches

# T3008

## Miniature Tongue-Operated Safety Interlock Switch

- Compact size—Allows the T3008 switch to be used on smaller machines with space restrictions.
- NEMA 6 enclosure—Enables the T3008 to withstand water washdown cleaning.
- Two mounting surfaces—Gives 4 possible actuator entry points for versatile installation. A blanking plug is supplied for the unused entry.
- Small swing radius—Allows use on doors with a swing radius of less than 2 in. when using the flex actuators.
- Long life—The T3008 with its stainless steel actuators is designed for one million actuations.
- Safety switch conformity—the T3008, with its force-guided contacts and a tamper-resistant mechanism, conforms to the European safety standards indicated here.

**A** **Go to the Engineering Guide**  
For in-depth information on safety standards and use.

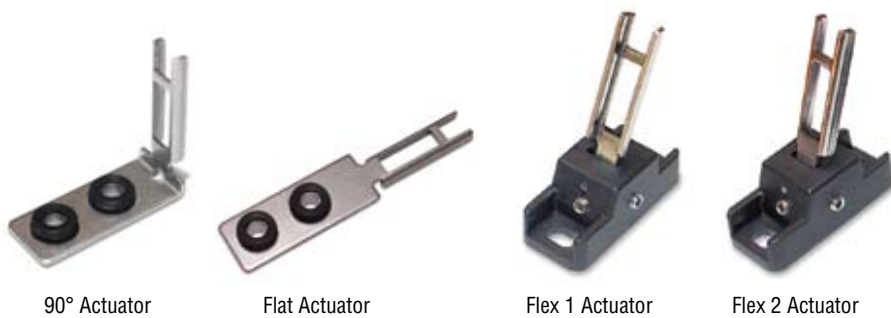
**N** **For More Guarding Products**  
See Section N for safeguarding cutting and turning machines

■ Operation



**Mounting** — The switch may be mounted label side down or label side up to give four possible actuator entry points.

Four Different Actuators are Available —



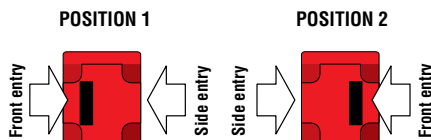
90° Actuator

Flat Actuator

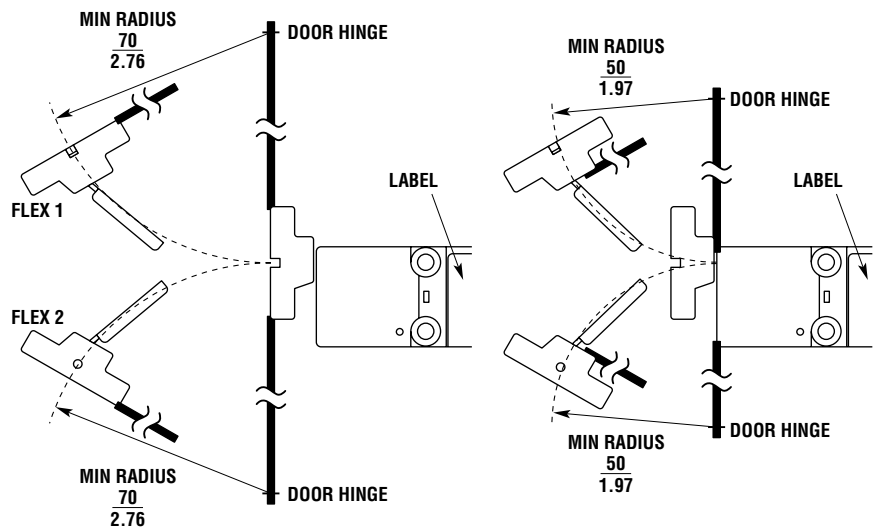
Flex 1 Actuator

Flex 2 Actuator

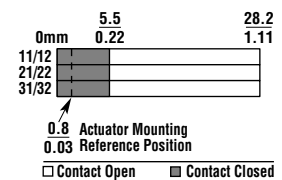
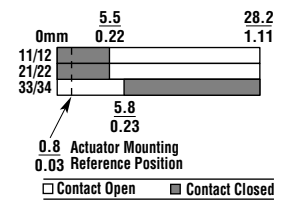
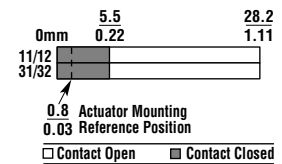
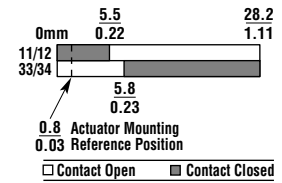
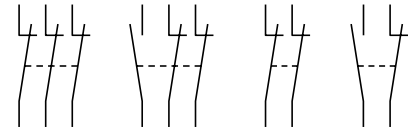
Four Possible Actuator Entry Points



Operating Range — mm/in.



Contact Arrangements



safety interlock switches

## Specifications

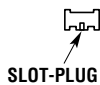
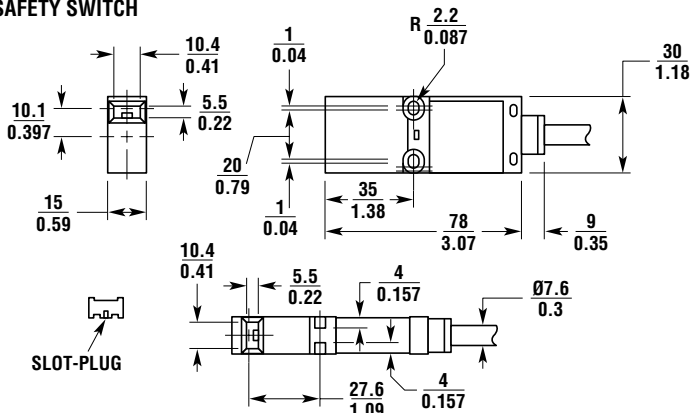
| Electrical                                   |                       | All Models   |
|--|-----------------------|--|
| <b>Contact Configurations:</b>               |                       | 1 N/C + 1 N/O, 2 N/C, 2 N/C + 1 N/O, 3 N/C   |
| <b>Safety Contacts:</b>                      |                       | 1 N/C, 2 N/C, or 3 N/C positive break  |
| <b>Switching Ability</b>                     | <b>Resistive Load</b> | <b>AC:</b> 250 V – 1.6 A; 125 V – 2.5 A<br><b>DC:</b> 250 V – 0.55 A; 125 V – 1.1 A; 30 V – 2.5 A    |
|  | <b>Inductive Load</b> | <b>AC:</b> 250 V – 0.75 A; 125 V – 1.5 A<br><b>DC:</b> 250 V – 0.27 A; 125 V – 0.55 A; 30 V – 0.27 A |
| <b>Auxiliary Contacts:</b>                   |                       | 1 N/O  |
| <b>Max Switching Current/Volt/Amp:</b>       |                       | 250 V/400 VA   |
| <b>Electrical Life:</b>                      |                       | 1 x 10 <sup>6</sup> minimum  |
| Mechanical                                   |                       |  |
| <b>Mounting:</b>                             |                       | Any position   |
| <b>Mounting Hardware:</b>                    |                       | 2 x M4 screws  |
| <b>Actuator Travel for Positive Opening:</b> |                       | 5.5 mm (0.217 in.)   |
| <b>Min Operating Radius:</b>                 |                       | 50 mm (1.97 in.) with flex actuators   |
| <b>Break Contact Min Force:</b>              |                       | 6 N (1.35 lb.)   |
| <b>Max Actuation Speed:</b>                  |                       | 1000 mm/sec. (39.4 in./sec.) maximum   |
| <b>Max Actuation Frequency:</b>              |                       | 1200 cycles/hour   |
| <b>Actuator Material:</b>                    |                       | Stainless steel  |
| <b>Cable:</b>                                |                       | UL style 2464, 6 x 20 AWG stranded   |
| <b>Weight:</b>                               |                       | 142 g (5 oz.)  |
| <b>Color:</b>                                |                       | Red  |
| <b>Mechanical Life:</b>                      |                       | 1 x 10 <sup>6</sup> minimum  |
| Environmental                                |                       |  |
| <b>Protection:</b>                           |                       | IP67 (NEMA 6)  |
| <b>Operating Temperature:</b>                |                       | -20 to 80°C (-4 to 176°F)  |
| Compliance                                   |                       |  |
| <b>Standards:</b>                            |                       | EN1088, EN60947-5-1, EN60204-1   |
| <b>Approvals/Listings:</b>                   |                       | CE marked for all applicable directives, UL and C-UL, BG   |

Specifications are subject to change without notice.

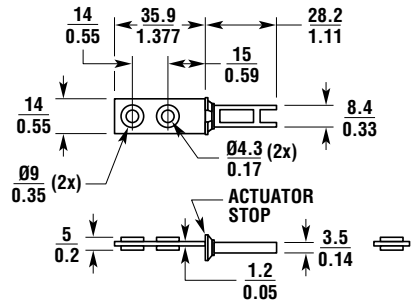
Note: The safety contacts of the Omron STI switches are described as normally closed (N/C)—i.e., with the guard closed, actuator in place, and the machine able to be started.

## Dimensions — mm/in.

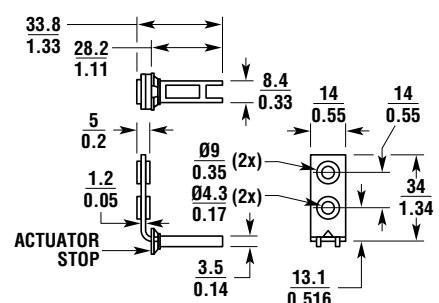
### T3008 SAFETY SWITCH



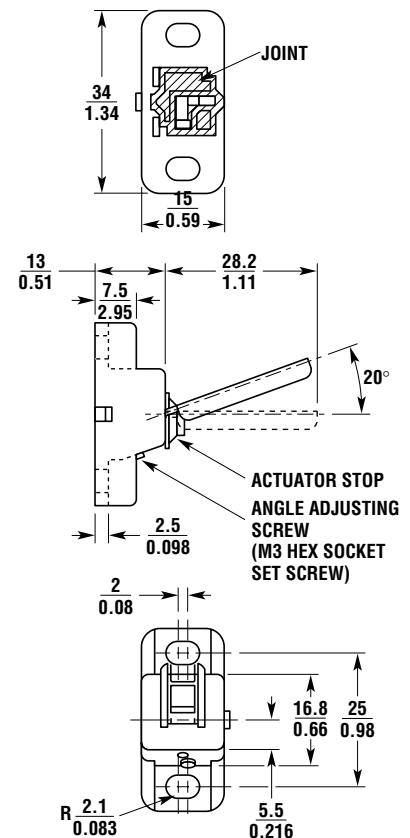
### FLAT ACTUATOR



### 90 DEGREE ACTUATOR



### FLEX 1 AND FLEX 2 ACTUATORS



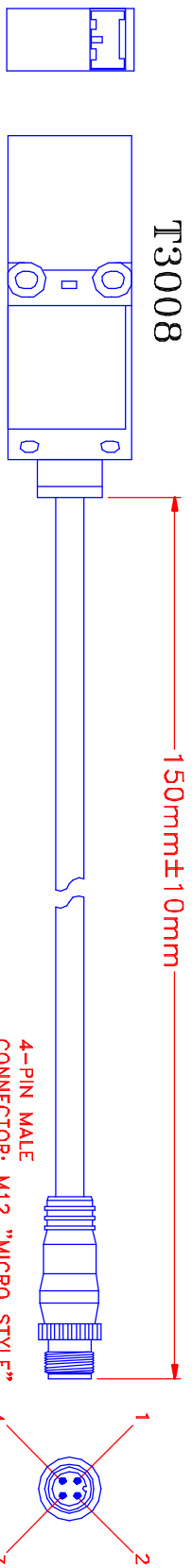
**N** For More Guarding Products  
See Section N for safeguarding cutting and turning machines

## ■ Ordering

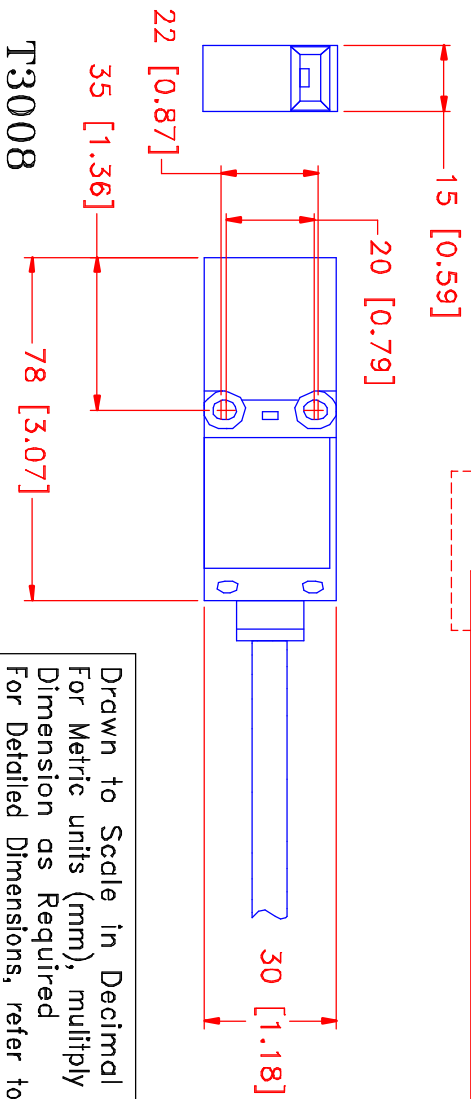
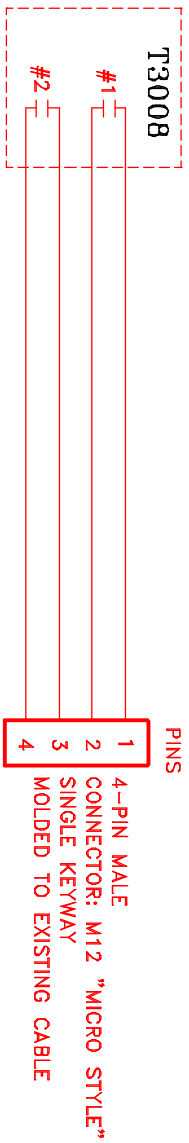
| Model                       | Contacts      | Wiring Entry | Part No.   |
|-----------------------------|---------------|--------------|------------|
| <b>90° ACTUATOR</b>         |               |              |            |
| T3008-11SC1                 | 1 N/C + 1 N/O | 1 m cable    | 44524-0010 |
| T3008-11SC5                 | 1 N/C + 1 N/O | 5 m cable    | 44524-0105 |
| T3008-02SC1                 | 2 N/C         | 1 m cable    | 44524-0020 |
| T3008-02SC5                 | 2 N/C         | 5 m cable    | 44524-0205 |
| T3008-12SC1                 | 2 N/C + 1 N/O | 1 m cable    | 44524-0030 |
| T3008-12SC5                 | 2 N/C + 1 N/O | 5 m cable    | 44524-0305 |
| T3008-03SC1                 | 3 N/C         | 1 m cable    | 44524-0040 |
| T3008-03SC5                 | 3 N/C         | 5 m cable    | 44524-0405 |
| <b>FLAT ACTUATOR</b>        |               |              |            |
| T3008-11TC1                 | 1 N/C + 1 N/O | 1 m cable    | 44524-1010 |
| T3008-11TC5                 | 1 N/C + 1 N/O | 5 m cable    | 44524-1105 |
| T3008-02TC1                 | 2 N/C         | 1 m cable    | 44524-1020 |
| T3008-02TC5                 | 2 N/C         | 5 m cable    | 44524-1205 |
| T3008-12TC1                 | 2 N/C + 1 N/O | 1 m cable    | 44524-1030 |
| T3008-12TC5                 | 2 N/C + 1 N/O | 5 m cable    | 44524-1305 |
| T3008-03TC1                 | 3 N/C         | 1 m cable    | 44524-1040 |
| T3008-03TC5                 | 3 N/C         | 5 m cable    | 44524-1405 |
| <b>FLEX 1 ACTUATOR</b>      |               |              |            |
| T3008-11F1C1                | 1 N/C + 1 N/O | 1 m cable    | 44524-2010 |
| T3008-11F1C5                | 1 N/C + 1 N/O | 5 m cable    | 44524-2105 |
| T3008-02F1C1                | 2 N/C         | 1 m cable    | 44524-2020 |
| T3008-02F1C5                | 2 N/C         | 5 m cable    | 44524-2205 |
| T3008-12F1C1                | 2 N/C + 1 N/O | 1 m cable    | 44524-2030 |
| T3008-12F1C5                | 2 N/C + 1 N/O | 5 m cable    | 44524-2305 |
| T3008-03F1C1                | 3 N/C         | 1 m cable    | 44524-2040 |
| T3008-03F1C5                | 3 N/C         | 5 m cable    | 44524-2405 |
| <b>FLEX 2 ACTUATOR</b>      |               |              |            |
| T3008-11F2C1                | 1 N/C + 1 N/O | 1 m cable    | 44524-3010 |
| T3008-11F2C5                | 1 N/C + 1 N/O | 5 m cable    | 44524-3105 |
| T3008-02F2C1                | 2 N/C         | 1 m cable    | 44524-3020 |
| T3008-02F2C5                | 2 N/C         | 5 m cable    | 44524-3205 |
| T3008-12F2C1                | 2 N/C + 1 N/O | 1 m cable    | 44524-3030 |
| T3008-12F2C5                | 2 N/C + 1 N/O | 5 m cable    | 44524-3305 |
| T3008-03F2C1                | 3 N/C         | 1 m cable    | 44524-3040 |
| T3008-03F2C5                | 3 N/C         | 5 m cable    | 44524-3405 |
| Spare 90° Actuator          |               |              | 44524-0700 |
| Spare Flat Actuator         |               |              | 44524-0710 |
| Spare Flex 1 Actuator       |               |              | 44524-0720 |
| Spare Flex 2 Actuator       |               |              | 44524-0730 |
| Accessories (see page G238) |               |              |            |

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safety interlock switches



82504-0010



Drawn to Scale in Decimal Inches  
For Metric units (mm), multiply by 25.4  
Dimension as Required  
For Detailed Dimensions, refer to Catalog

