



Conforms to EN1088, EN292, EN60947-5-1, EN60204-1, EN50047





T3009

Compact Tongue-Operated Safety Interlock Switch

- Compact size—Allows the T3009 switch to be used on smaller machines with space restrictions
- Three sets of contacts—Provides a variety of contact configurations
- NEMA 6 enclosure—Enables the T3009 to withstand water washdown cleaning
- Rotatable head—Gives 8 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 as small as 2.5 in. when using the flex actuator with stainless steel guide
- Long life—The T3009 with its stainless steel actuators and optional stainless steel guide is designed for one million actuations

Safety switch conformity—the T3009, with its force-guided contacts and a tamper-resistant mechanism, conforms to the European safety standards indicated here



Go to the Engineering Guide For in-depth information on



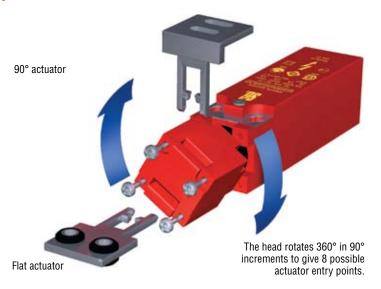
For More Guarding Products See Section N for safeguarding cutting and turning machines







Operation





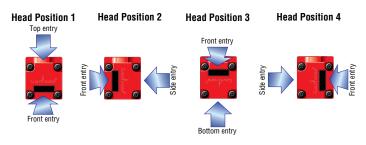
Flex Actuator 10° flexibility in one direction.



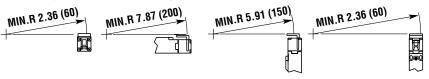
Optional Kit

Optional kit consists of the flex actuator and the stainless steel guide.

8 possible actuator entry points

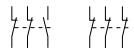


Minimum Operating Radius Front-Entry Using Flex Actuator With Stainless Steel Guide

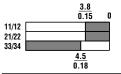


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Contact Arrangements

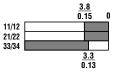


Actuator Withdrawal Distance from Full Insertion: type 2N/C + 1N/O BBM (Break before make contacts)



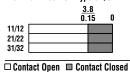
□ Contact Open ■ Contact Closed

Actuator Withdrawal Distance from Full Insertion: type 2N/C + 1N/O MBB (Make before break contacts)



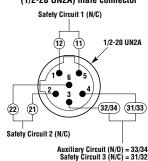
□ Contact Open ■ Contact Closed

Actuator Withdrawal Distance from Full Insertion: type 3N/C



Connector Configuration

6-pin micro AC dual keyway (1/2-20 UN2A) male connector

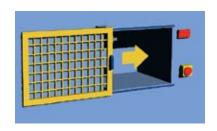






Applications

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





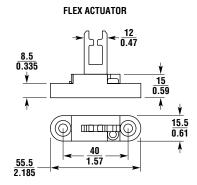
Specifications

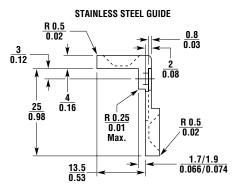
Electrical	All Models	
Contact Configurations:	2 N/C + 1 N/O, 3 N/C	
Safety Contacts:	2 N/C or 3 N/C	
Switching Ability		
AC:	500 V-1 A, 250 V-2 A, 100 V-5 A	
DC:	250 V-0.5 A, 24 V-2 A	
Safety Contact Gap:	> 2 mm (0.079 in.)	
Auxiliary Contacts:	1 N/O	
Max Switching Current/Volt/Amp:	500 V/500 VA	
Minimum Current:	5 V 5 mA DC	
Electrical Life:	1 x 10 ⁶ minimum	
Mechanical		
Mounting:	Any position	
Mounting Hardware:	2 x M4 screws	
Actuator Travel for Positive Opening:	5 mm (0.197 in.)	
Min Operating Radius:	150 mm (5.91 in.)	
Break Contact Min Force:	15 N (3.4 lb.)	
Max Actuation Speed:	160 mm/sec (6.30 in./sec)	
Max Actuation Frequency:	2 cycles/sec	
Case Material:	UL listed, glass-filled polyester	
Actuator Material:	Stainless steel	
Wiring Entry:	1 x M16 conduit with 0.5 in. NPT adapter	
Weight:	80 g (2.8 oz.)	
Color:	Red	
Mechanical Life:	1 x 10 ⁶ minimum	
Environmental		
Protection:	IP67 (NEMA 6)	
Operating Temperature:	-20 to 80°C (-4 to 176°F)	
Cleaning:	Water washdown	
Compliance		
Standards: EN1088, EN292, EN60947-5-1, EN60204-1, EN50047		
Approvals/Listings: CE marked for all applica	ble directives, UL and C-UL	

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.







Go to the Engineering Guide

For in-depth information on safety standards and use.



For More Guarding Products

See Section N for safeguarding cutting and turning machines

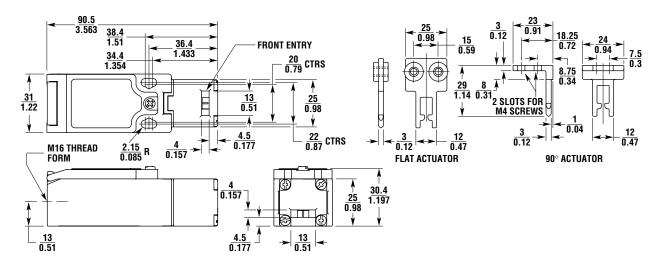








■ Dimensions — mm/in. (continued)



Ordering

Model	Contacts	Wiring Entry	Part No.
90° ACTUATOR			
T3009-021SM	2 N/C + 1 N/O BBM	1 x M16 with NPT adapter	44513-1010
T3009-021SCC	2 N/C + 1 N/O BBM	Connector	44513-1012
T3009-021SMM	2 N/C + 1 N/O MBB	1 x M16 with NPT adapter	44513-1020
T3009-021SMCC	2 N/C + 1 N/O MBB	Connector	44513-1022
T3009-030SM	3 N/C	1 x M16 with NPT adapter	44513-1030
T3009-030SCC	3 N/C	Connector	44513-1032
FLAT ACTUATOR			
T3009-021TM	2 N/C + 1 N/O BBM	1 X M16 with NPT adapter	44513-1110
T3009-021TCC	2 N/C + 1 N/O BBM	Connector	44513-1112
T3009-021TMM	2 N/C + 1 N/O MBB	1 x M16 with NPT adapter	44513-1120
T3009-021TMCC	2 N/C + 1 N/O MBB	Connector	44513-1122
T3009-030TM	3 N/C	1 x M16 with NPT adapter	44513-1130
T3009-030TCC	3 N/C	Connector	44513-1132
Spare 90° Actuator			44513-0700
Spare Flat Actuator			44513-0710
Flex Actuator w/stainless steel guide			44513-0730
Spare M16 to 0.5 in. NPT Adapter			44512-0300
M16 Cord Grip			44512-0080
Conduit Lights (see pages G239 & G240)			
Accessories and Cables with Mating Connectors	(see page G238)		

BBM = Break Before Make Contacts, MBB = Make Before Break Contacts





