

T2007

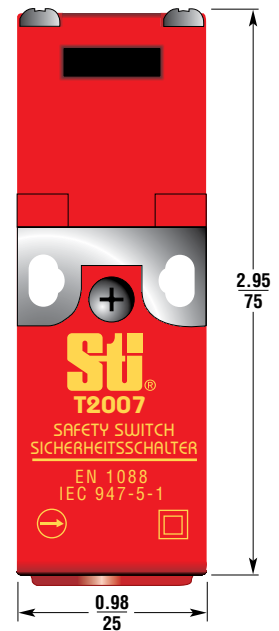
Miniature Tongue-Operated Safety Interlock Switch

- Miniature size—The smallest tongue-actuated safety interlock switch available. Ideal for smaller machines with space restrictions. Fits on 1 in. square tubing.
- NEMA 6 enclosure—Enables the T2007 with conduit entry or connector 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 T2007 with its stainless steel actuators and optional stainless steel guide is designed for one million actuations.
- Safety switch conformity—By including the safety-related functions of force-guided contacts and a tamper-resistant mechanism, the T2007 conforms to the European safety standards indicated here.



Conforms to EN1088, EN292, EN60947-5-1, EN60204-1
UL and C-UL listed

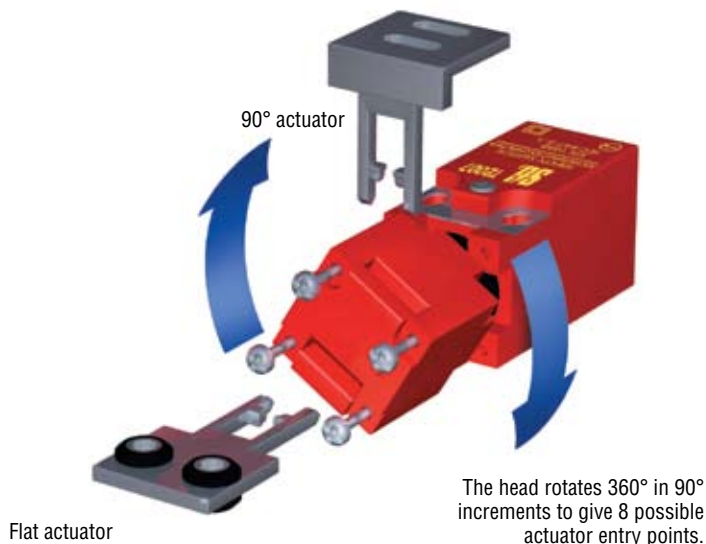
■ Actual Size



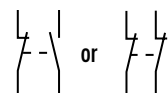
A **Go to the Engineering Guide**
For in-depth information on safety standards and use.

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

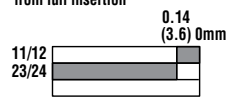
■ Operation



Contact Arrangements

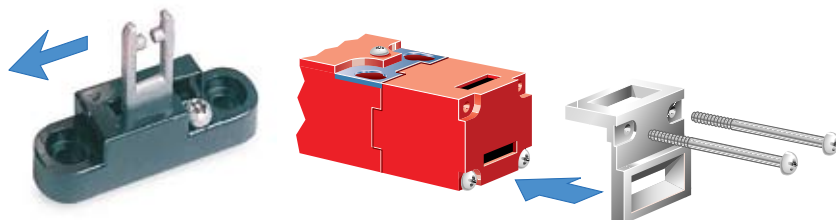


Actuator withdrawal distance from full insertion



G

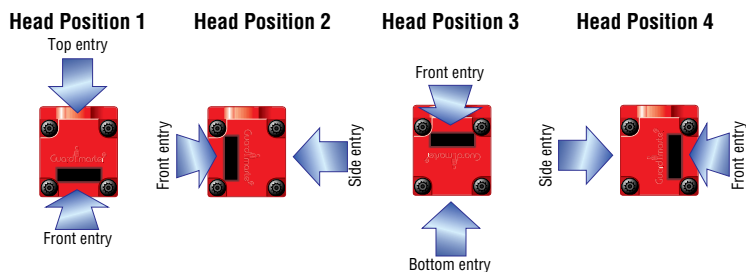
safety interlock switches



Flex Actuator
10° flexibility in one direction.

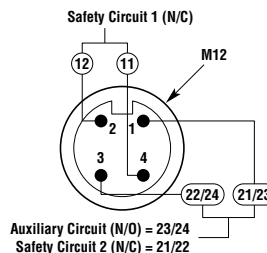
Optional Kit
Optional kit consists of the flex actuator and the stainless steel guide.

8 possible actuator entry points

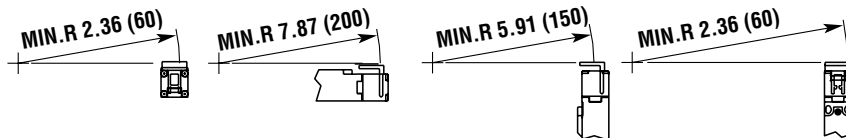


Connector Configurations

4-pin micro DC (M12) male connector

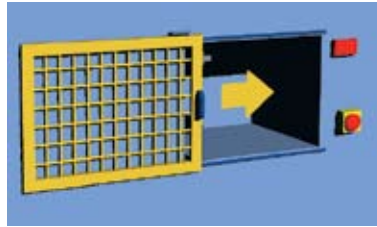


Minimum Operating Radius Front-Entry Using Flex Actuator With Stainless Steel Guide



■ Applications

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



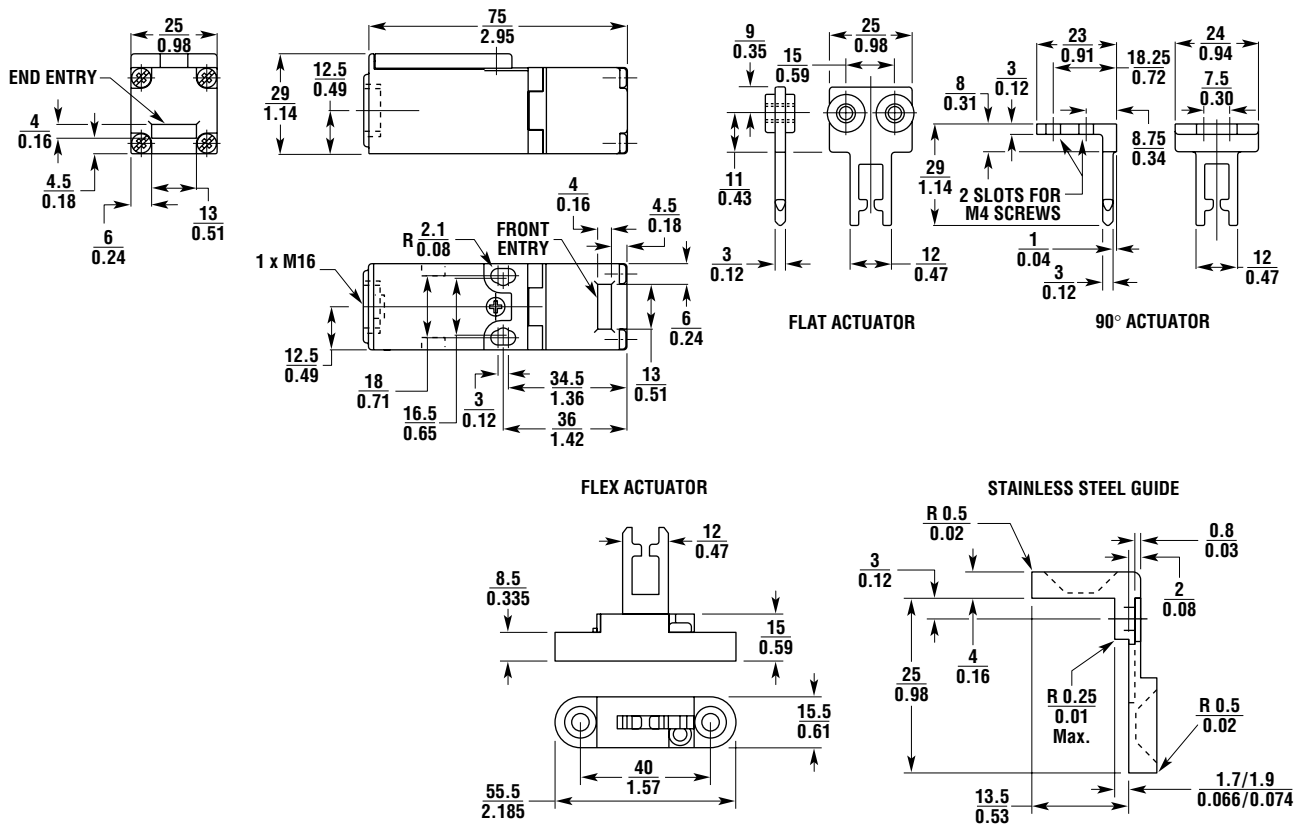
■ Specifications

	T2007-02TM	T2007-02SM	All Models	T2007-11TM	T2007-11SM
Electrical					
Contact Configurations:	2 N/C			1 N/C + 1 N/O	
Safety Contacts:	2 N/C positive break			1 N/C positive break	
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:	3.6 mm (0.142 in.)				
Min Operating Radius with Flex Actuator:	60 mm (2.36 in.)				
Break Contact Min Force:	6 N (1.35 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; or Brad Harrison connector (Micro-Change, 8R Series, 4-pole male, M12 threads)				
Weight:	60 g (2.1 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, EN60204-1				
Approvals/Listings:	CE marked for all applicable 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.



G
safety interlock switches

■ Ordering

Model	Contacts	Wiring Entry	Part No.
T2007-11TM (Flat actuator)	1 N/C + 1 N/O	1 x M16 with NPT adapter	44521-1020
T2007-11TC (Flat actuator)	1 N/C + 1 N/O	connector + 5 m cable	44521-1022
T2007-11F1 (Flex actuator with SS guide)	1 N/C + 1 N/O	1 x M16 with NPT adapter	44521-1027
T2007-11SM (90° actuator)	1 N/C + 1 N/O	1 x M16 with NPT adapter	44521-1040
T2007-11SC (90° actuator)	1 N/C + 1 N/O	connector + 5 m cable	44521-1042
T2007-02TM (Flat actuator)	2 N/C	1 x M16 with NPT adapter	44521-1050
T2007-02TC (Flat actuator)	2 N/C	connector + 5 m cable	44521-1052
T2007-02F1 (Flex actuator with SS guide)	2 N/C	1 x M16 with NPT adapter	44521-1057
T2007-02SM (90° actuator)	2 N/C	1 x M16 with NPT adapter	44521-1060
T2007-02SC (90° actuator)	2 N/C	connector + 5 m cable	44521-1062
Spare flat actuator			44513-0710
Spare 90° actuator			44513-0700
Flex actuator with stainless steel guide			44513-0730
Spare M16 to 0.5 in. NPT adapter			44512-0300
M16 cord grip			44512-0080
Accessories and cables with mating connectors (see page G238)			