

T2007

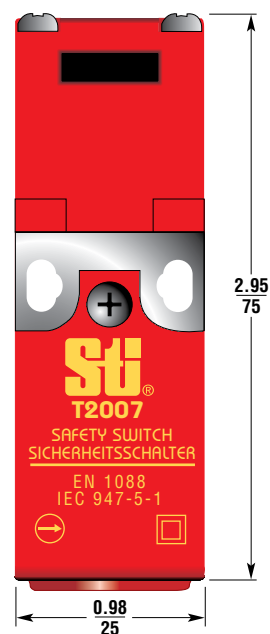
Miniature Tongue-Operated Safety Interlock Switch

- 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

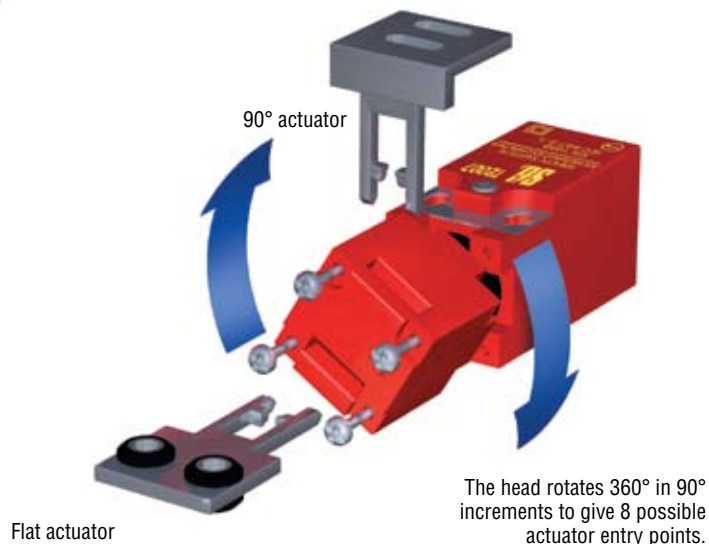
■ Actual Size



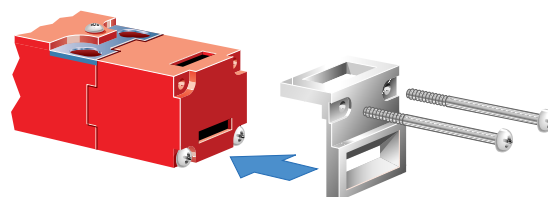
A Go to the Engineering Guide
For in-depth information on safety standards and use.

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

■ Operation

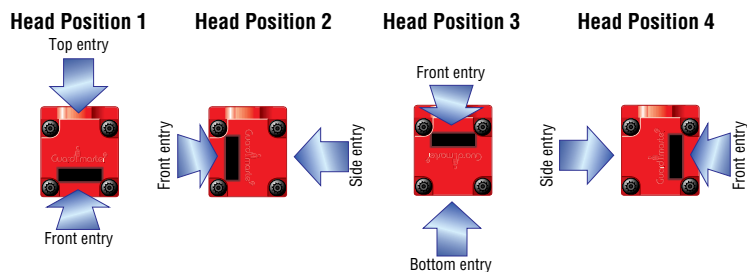


Flex Actuator
10° flexibility in one direction.

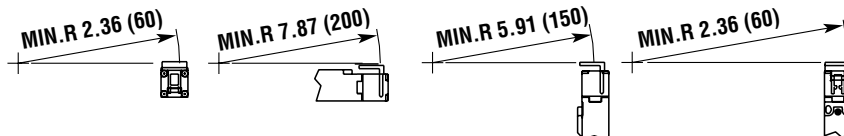


Optional Kit
Optional kit consists of the flex actuator and the stainless steel guide.

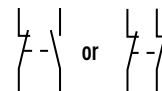
8 possible actuator entry points



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



Contact Arrangements



Actuator withdrawal distance
from full insertion

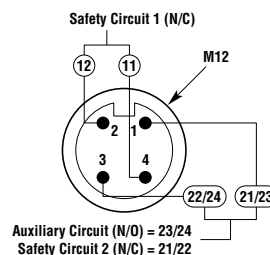
	0.14 (3.6) mm
11/12	
23/24	

G

safety interlock switches

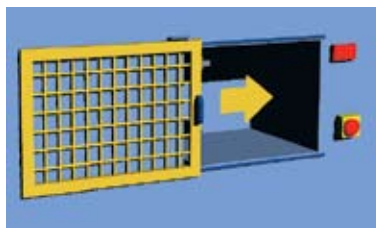
Connector Configurations

4-pin micro DC
(M12) male connector



■ Applications

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



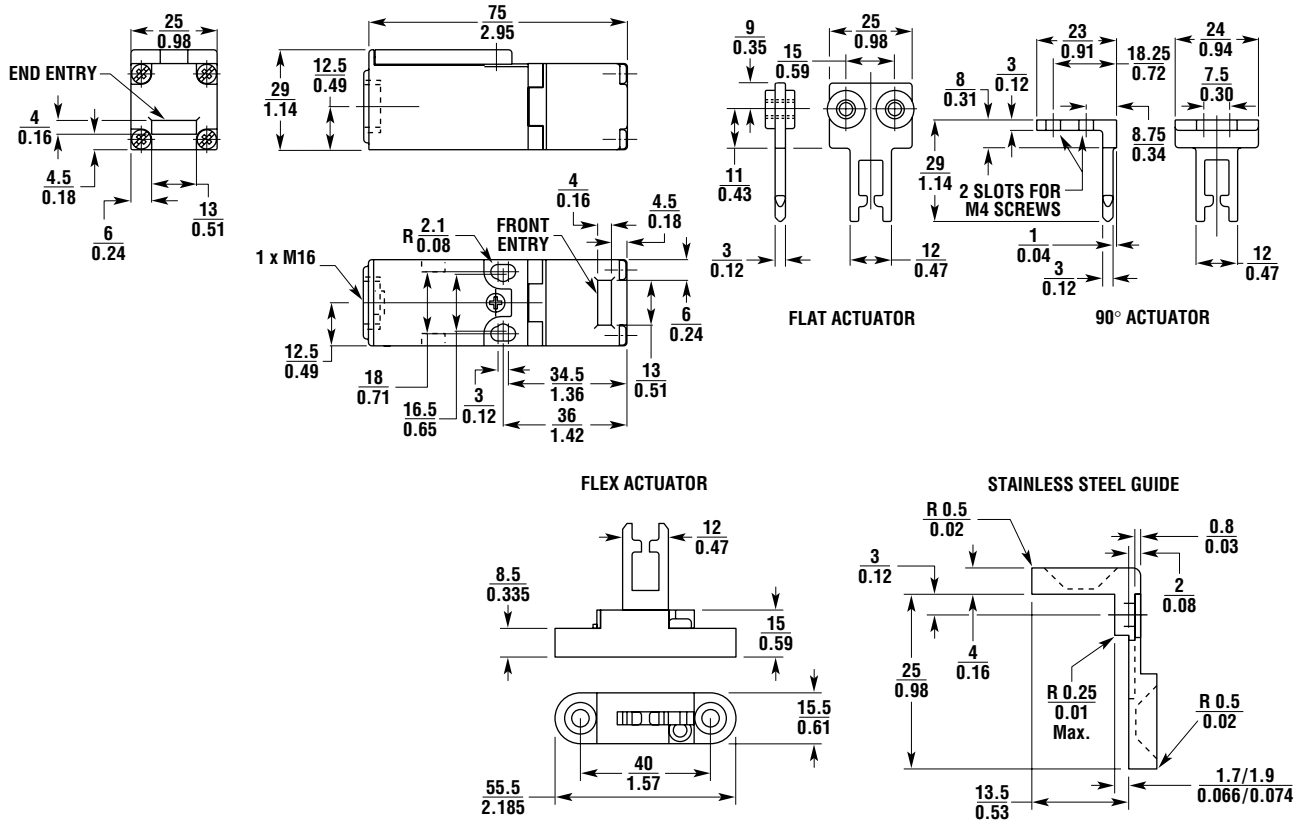
■ Specifications

	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.



■ 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)			