

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.
- A Rapid Delivery Product: Select models are available for shipment today or within 3 to 5 days



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

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Specifications

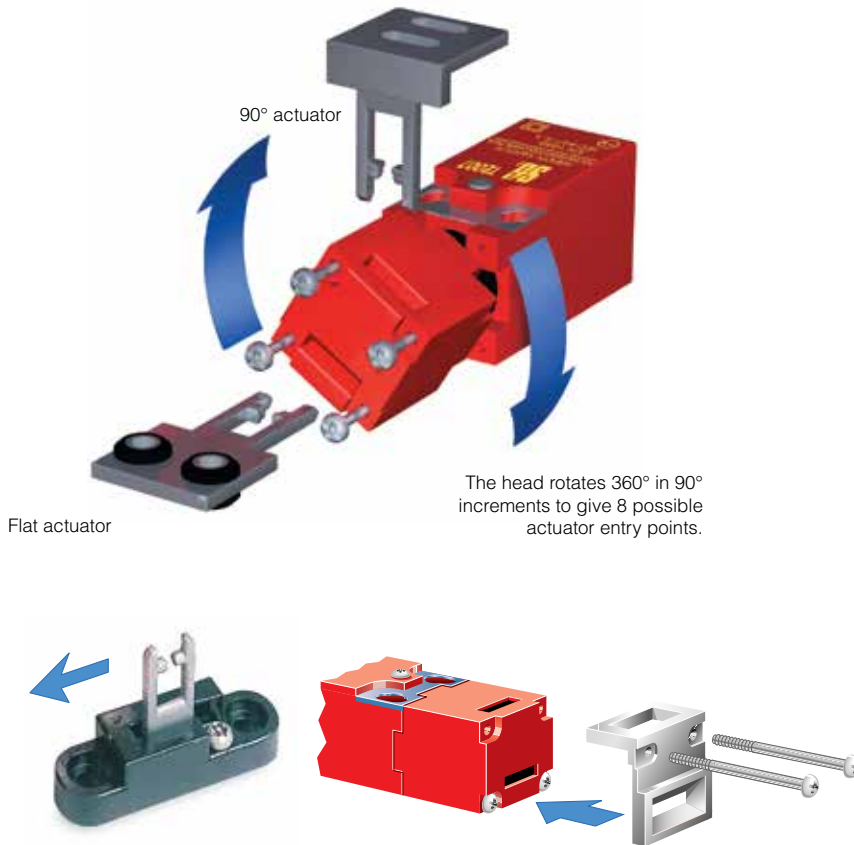
Electrical	All Models	T2007-02TM T2007-02SM	T2007-11TM T2007-11SM
Contact Configurations:		2 N/C	1 N/C + 1 N/O
Safety Contacts:		2 N/C positive break	1 N/C positive break
Switching Ability	AC: 500 V-1 A, 250 V-2 A, 100 V-5 A DC: 250 V-0.5 A, 24 V-2 A		
Safety Contact Gap:	> 2 mm (0.079 in.)		
Auxiliary 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		
Reliability Data			
Standards:	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



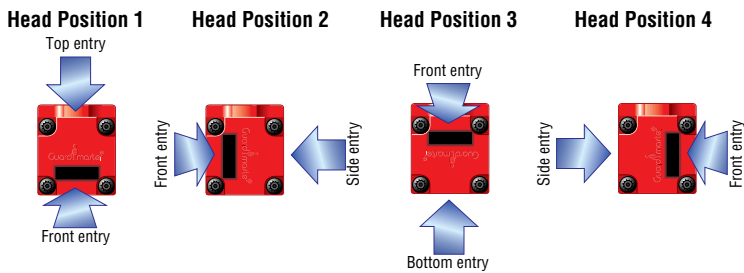
Flex Actuator

10° flexibility in one direction.

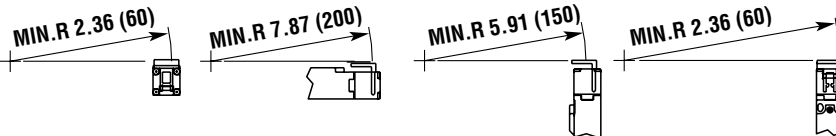
Optional Kit

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

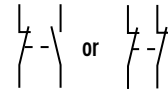
8 possible actuator entry points



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



Contact Arrangements

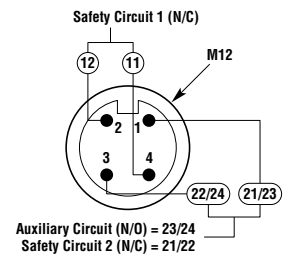


Actuator withdrawal distance from full insertion

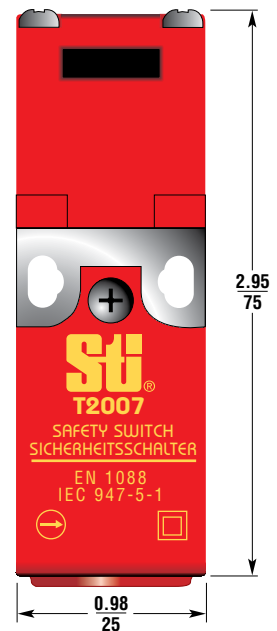


Connector Configurations

4-pin micro DC (M12) male connector



Actual Size

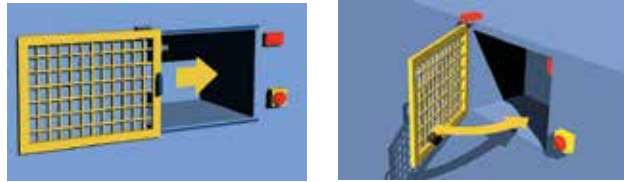


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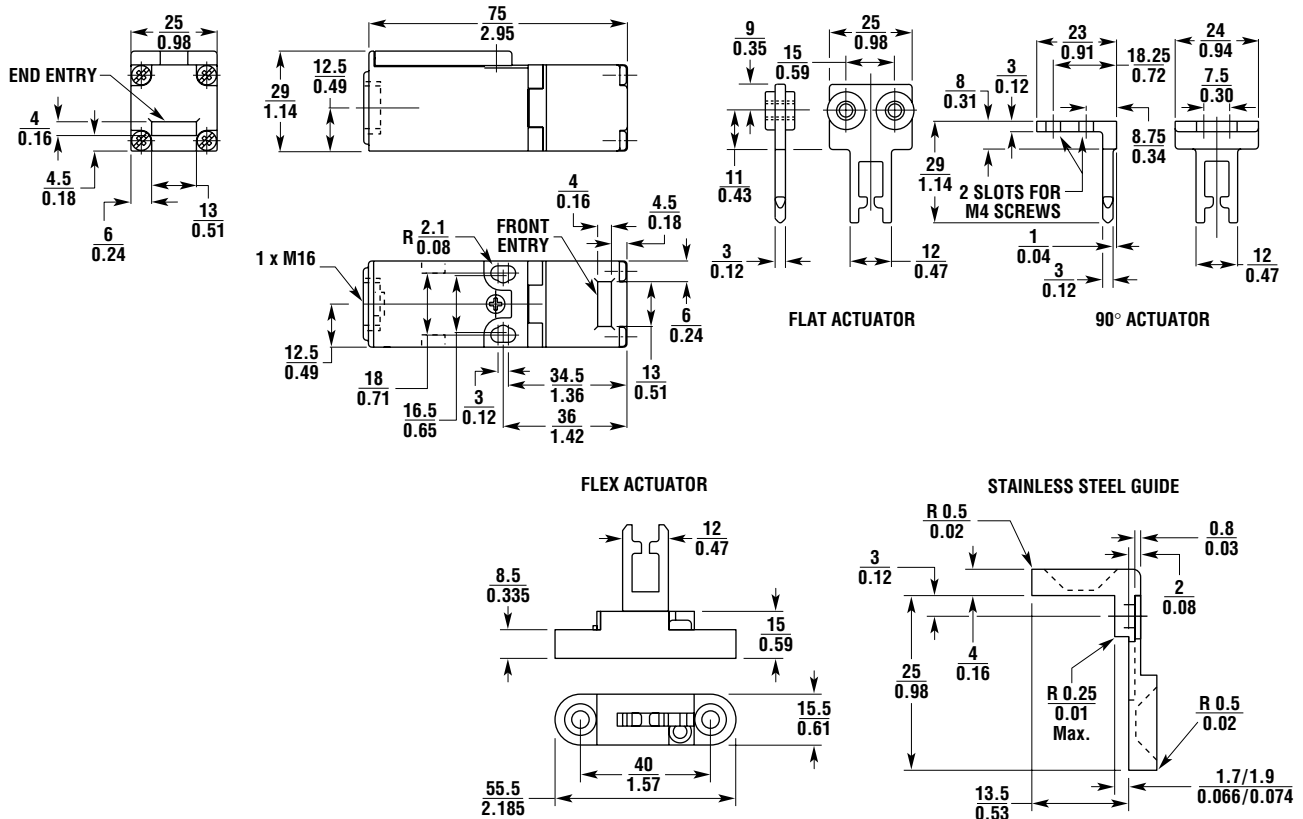
Applications

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



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

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For information on Accessories, see page G-209.

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