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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

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 106 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 106 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.

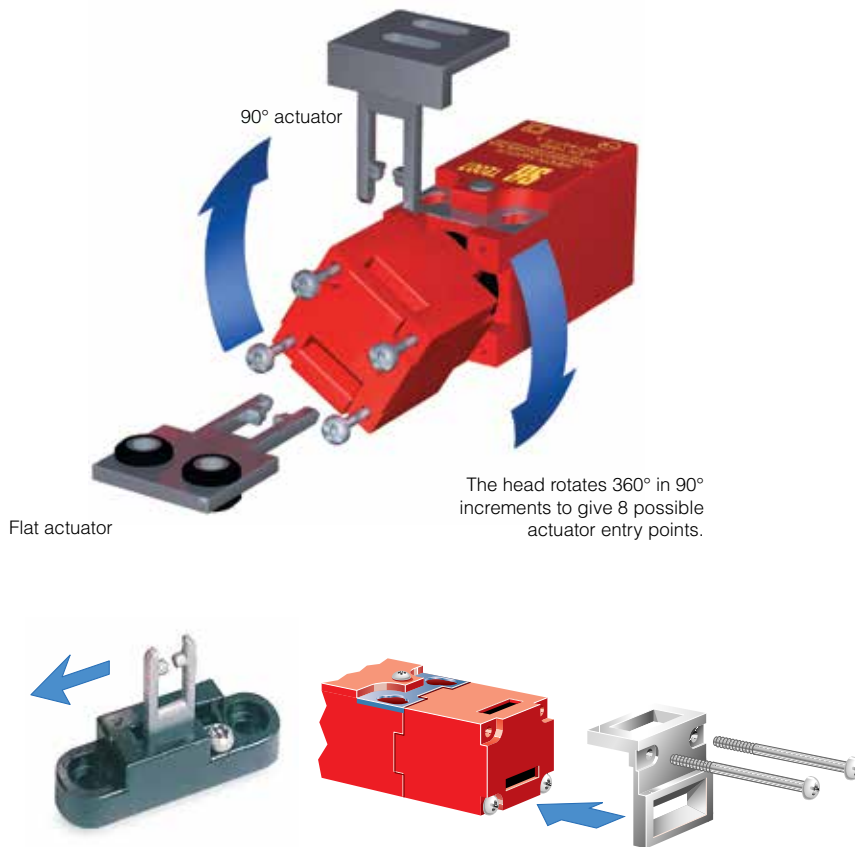
Note: The safety contacts of the STI switches are described as normally closed (N/C)—i.e., with the guard closed, actuator in place, and the machine able to be started.



Select models are available for Rapid Delivery.

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Operation



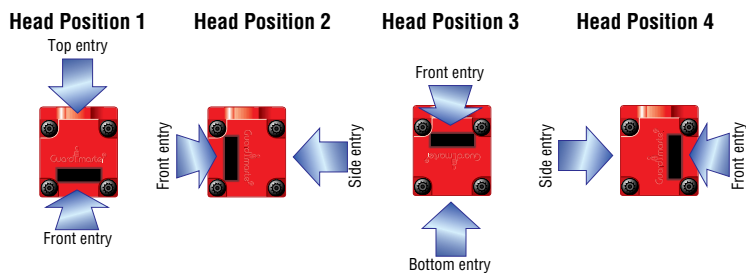
Flex Actuator

10° flexibility in one direction.

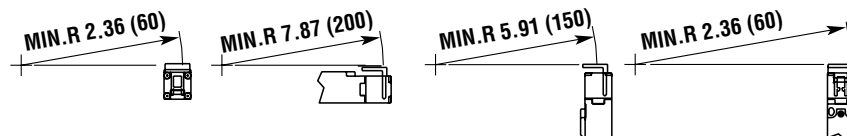
Optional Kit

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

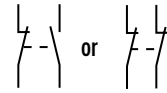
8 possible actuator entry points



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



Contact Arrangements

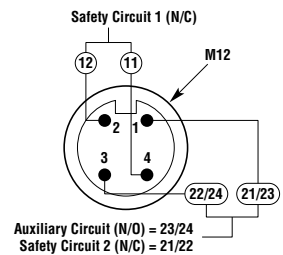


Actuator withdrawal distance from full insertion

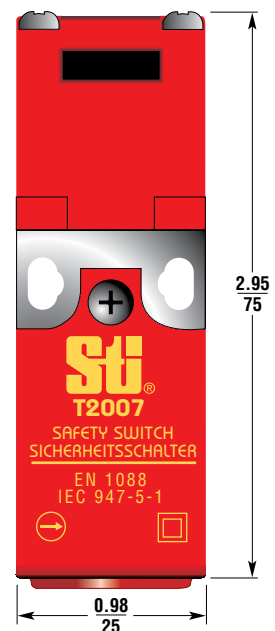


Connector Configurations

4-pin micro DC (M12) male connector



Actual Size

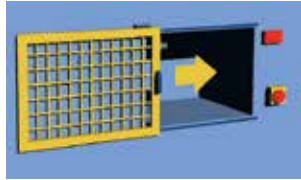


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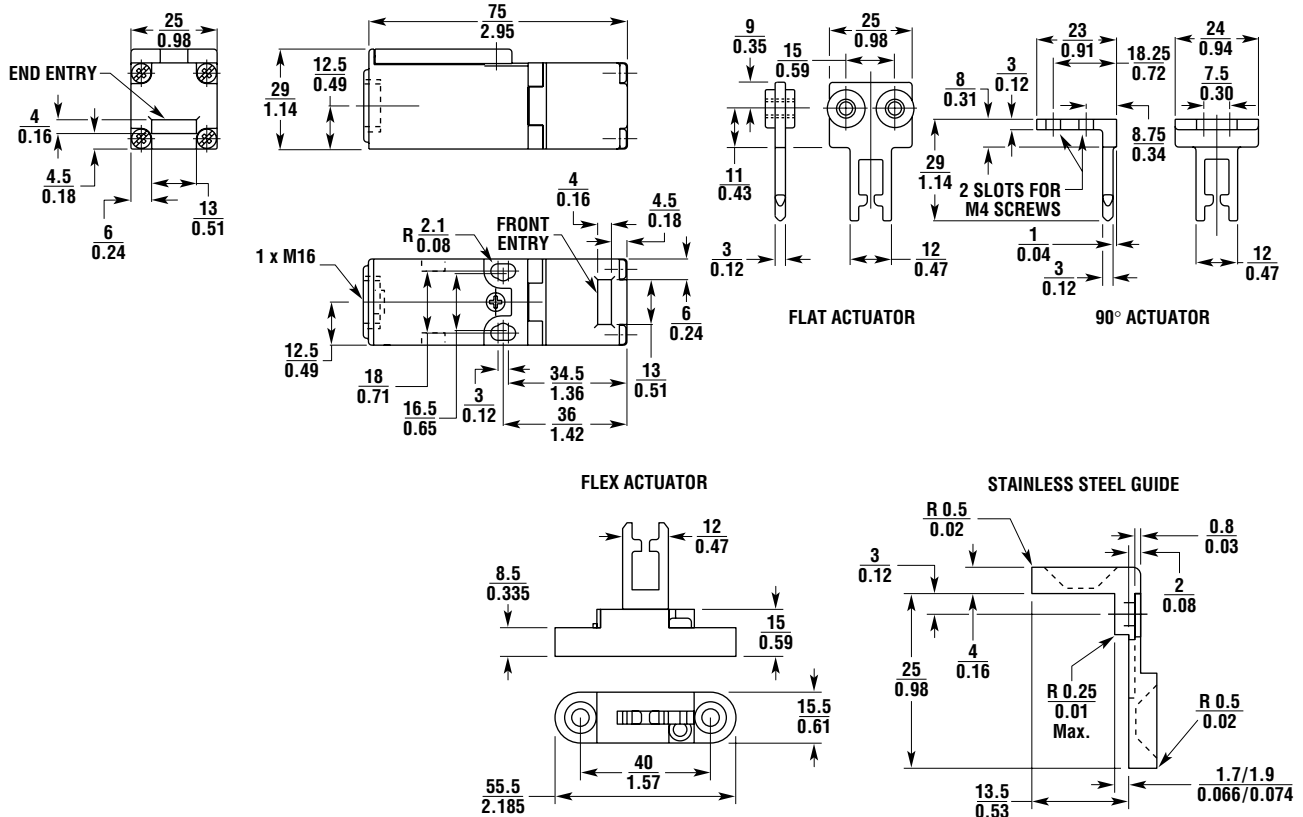
Applications

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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