



For full product information, visit www.sti.com. Use the SpeedSpec Code or scan the QR Code for quick access to the specific web page.

Rev. 6.13

Universal Tongue-Operated Safety Interlock Switch

- Strong and versatile—the compact size of the strong, glass-filled thermoplastic housing allows this switch to be used in most applications.
- NEMA 6 (IP67) enclosure enables these switches to withstand water washdown cleaning.
- Rotatable head gives eight possible actuator entry points for versatile installation. A blanking plug is supplied for the unused entry.
- Long life—these switches, with their stainless steel actuators, are designed for a minimum of two million actuations.
- Available with three contact poles. Contact configurations include 2 N/C and 1 N/O or 3 N/C. These switches can support Dual Channel Safety Monitoring and Status Monitoring.
- An optional stainless steel guide is available for demanding applications.
- A Rapid Delivery Product: Select models are available for shipment today or within 3 to 5 days



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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: 230 V, 4 A DC: 24 V, 4 A
Contact Material:	Silver alloy, gold flashed
Auxiliary Contacts:	1 N/O (T2011-021 models only)
Minimum Switching Voltage:	12 V at 10 mA
Minimum Switching Current:	1 mA at 24 V
Mechanical	
Mounting:	Any position
Mounting Hardware:	2 x M4 screws (not supplied)
Min Operating Radius:	150 to 200 mm based upon orientation of actuator to switch
Break Contact Min Force:	6 N (0.23 lb.)
Max Actuation Speed:	20 m/min.
Max Actuation Frequency:	7000 cycles/hour
Case Material:	Glass-fibre reinforced thermoplastic
Actuator Material:	Stainless steel
Wiring Entry:	3 x M16
Weight:	75 g (2.63 oz.)
Color:	Black with red lid
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
Approvals/Listings:	CE marked for all applicable directives, UL and C-UL (BG pending)



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

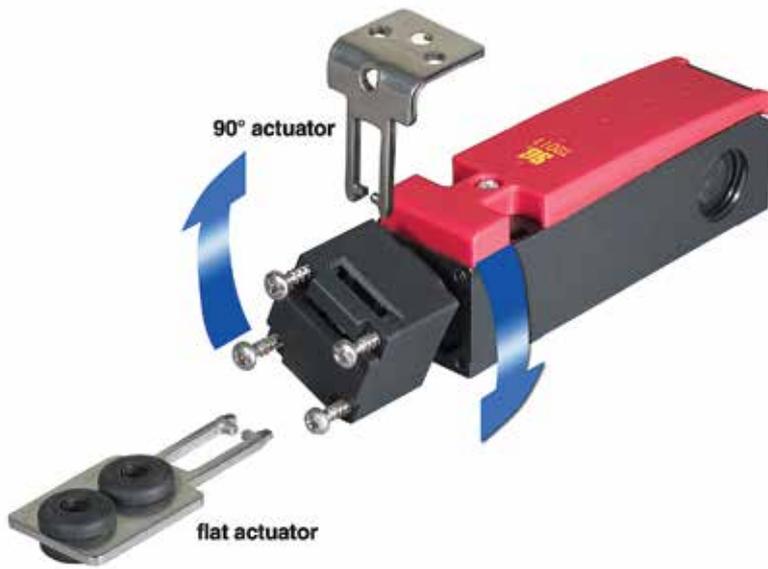
Actual Size



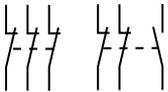
Specifications are subject to change without notice.

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.

Operation



Contact Arrangements



Optional Alignment Guide

Optional stainless steel alignment guide aids actuator entry and is easily installed.



Optional SLD Series

Optional switch locking devices are available. See accessories section for details.



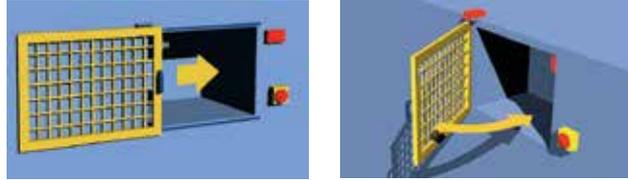
Optional Slide Bolts

- Allows easy installation of switch on machine guards
- Actuator included (order switch separately)
- Integral handle included
- Metal construction is suitable for demanding applications
- Yellow color for easy recognition

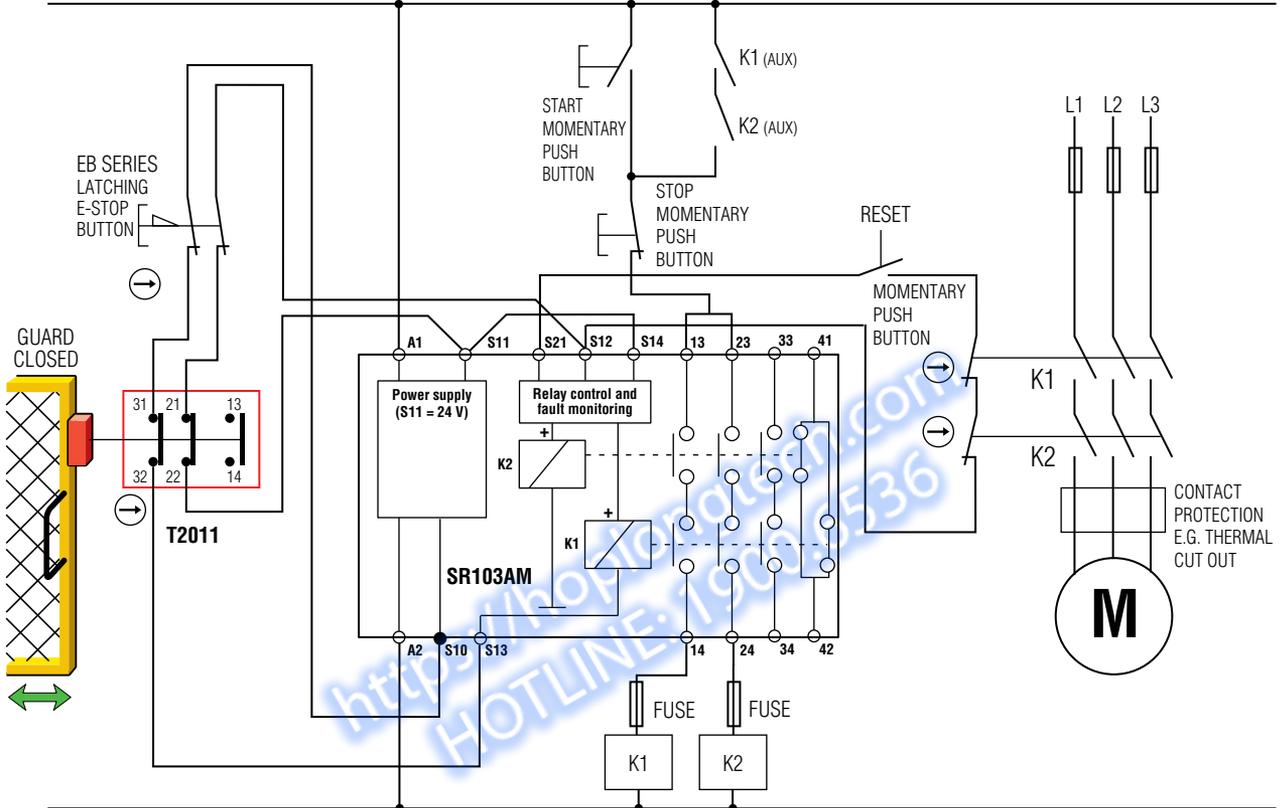


Applications

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



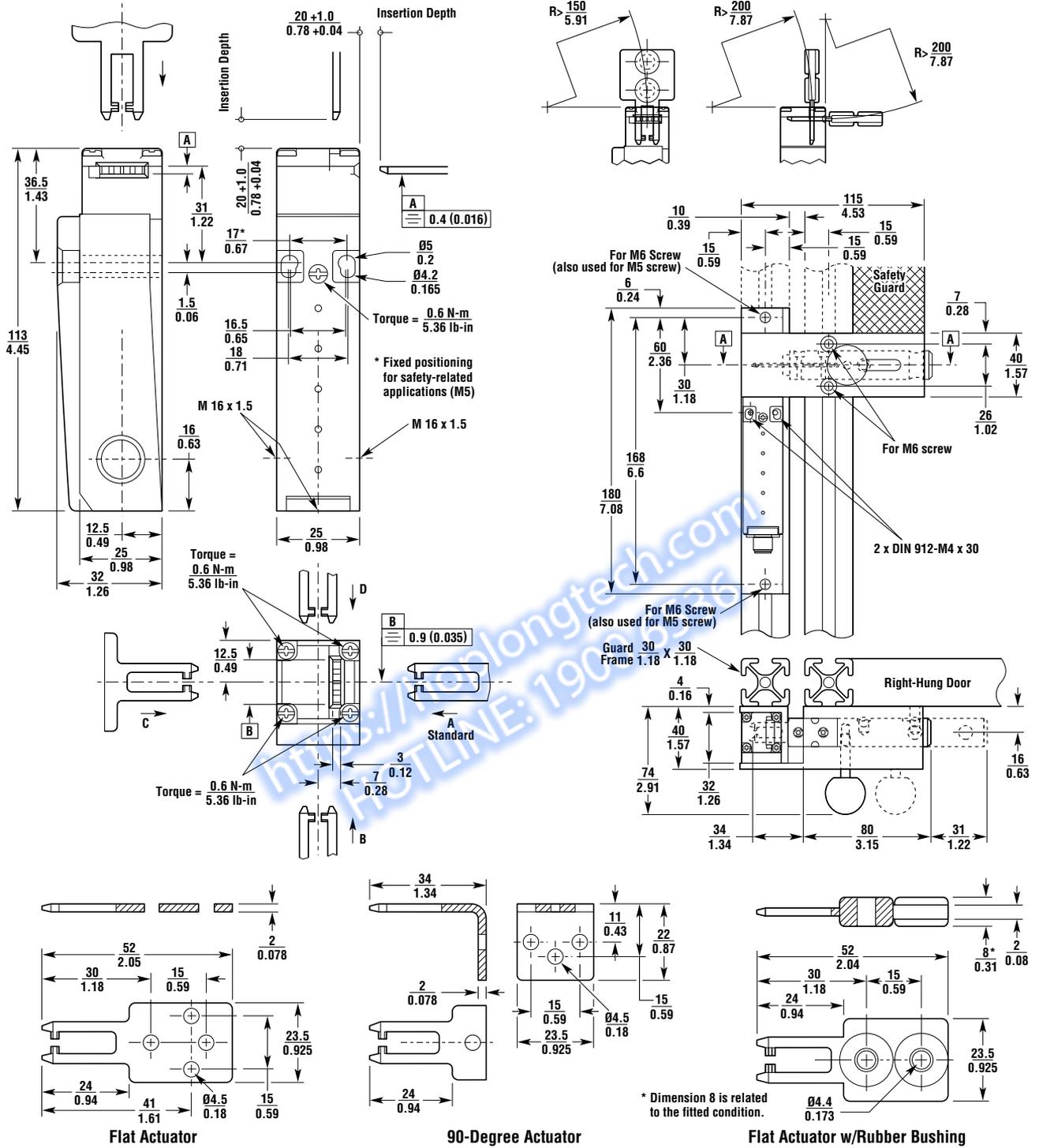
24VAC/DC, 110VAC, 230VAC



For a full explanation of the circuit operating principle and fault detection, see "Common Circuit Examples" in the Expert Area Section of this catalog on page A31

Dimensions

(mm/in.)



Ordering

Model	Contacts	Wiring Entry	Part No.
T2011 90-Degree Actuator			
T2011-021SM	2 N/C + 1 N/O	3 x M16 + NPT adapter	44541-0010
T2011-030SM	3 N/C	3 x M16 + NPT adapter	44541-0020
T2011 Flat Actuator			
T2011-021TM	2 N/C + 1 N/O	3 x M16 + NPT adapter	44541-0110
T2011-030TM	3 N/C	3 x M16 + NPT adapter	44541-0120
T2011 Flat Actuator with Rubber Bushing			
T2011-021TRM	2 N/C + 1 N/O	3 x M16 + NPT adapter	44541-0210
T2011-030TRM	3 N/C	3 x M16 + NPT adapter	44542-0220
T2011 Switch Only (no actuators and no adapters included)			
T2011-021	2 N/C + 1 N/O	3 x M16	44541-2010
T2011-030	3 N/C	3 x M16	44541-2020
Spare Actuators			
SA40-S00 90-degree actuator			44540-0700
SA40-T10 flat actuator			44540-0710
SA40-TR20 flat actuator with rubber bushings			44540-0720
Stainless Steel Guide			
SM40-SG50 stainless steel guide			44540-0750
Slide Bolt			
SB40-M00 slide bolt left or right hand door with bracket			44540-8000
Mounting Bracket			
SB40-M10 right angle bracket only for mounting T2008/T2011 switches			44540-8010
Adapter			
SC12-M16A00 M16 to 1/2 in. NPT adapter			44512-0300



For information on Accessories, including Universal Mounting Brackets, see page G203.

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