- Strong and versatile—the compact size of the strong, glassfilled polyester housing and metal reinforced cam allows this popular switch to be used in most applications
- NEMA 6 enclosure enables these switches to withstand water washdown cleaning.
- Rotatable head gives four 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 optional flexible actuators
- Hi-Hold models reduce nuisance rips and allow the switch to also serve as the gate catch without the need to mount any additional hardware.
- The 4 contact poles provide 2 poles for dual channel safety monitoring and 2 additional poles for status monitoring
- Optional connector makes installation easy
- An optional stainless steel head is available
- 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

G

Electrical	All Models	T5009	T5009-6	
Contact Configurations:		2 N/C + 1 N/O	2 N/C + 2 N/O, 3 N/C + 1 N/O, 4 N/C	
Safety Contacts:	2 N/C positive break			
Switching Ability	AC: 500 V-1 A, 240 V-3 A, 120 V-6 A			
	DC: 250 V-0.5 A, 24 V-2.5 A			
Safety Contact Gap:	> 2 mm (0.079 in.)			
Auxiliary Contacts:		1 N/O	1 N/C + 1 N/O, 2 N/C, 2 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 M5 screws			
Actuator Travel for Positive Opening:	7 mm (0.275 in.)			
Min Operating Radius:	60 mm (2.5 in.) with Flex 1 actuator; 175 mm (6.89 in.) with standard actuator			
Break Contact Min Force:	12 N (2.7 lb.); Hi-Hold models are 50 N (11.2 lbs.)			
Max Actuation Speed:	160 mm/sec (6.30 in./sec)			
Max Actuation Frequency:	2 cycles/sec			
Case Material:	UL listed, glass-filled polyester, optional stainless steel head			
Actuator Material:	Stainless steel			
Wiring Entry:	M20 with 1/2 in. NPT adapter included, 1/2 in. NPT, 6-pin micro AC connector 1/2 in. – 20			
Weight:	160 g (5.6 oz.)			
Color:	Red			
Mechanical Life:	1 x 10 ⁶ minimum			
Environmental				
Protection:	IP67 (NEMA 6)			
Operating Temperature:	-25 to 80°C (-13 to 176°F)			
Cleaning:	Water washdown			
Compliance				
Standards:	EN1088, EN292, EN60947-5-1, EN60204-1, UL508			
Approvals/Listings:	CE marked for all applicable directive	es, UL and C-UL		

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.

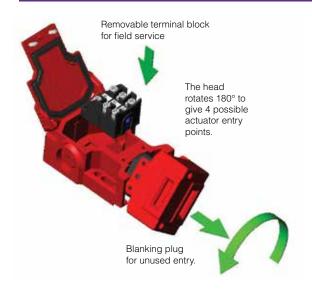


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Operation





Flex 1
15° flexibility in any direction.



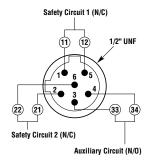
Optional SLD Series

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

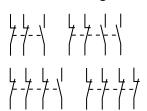


Optional Connector for 3-Pole Switches

6-Pin Male, Micro AC, 1/2-20 UN2A

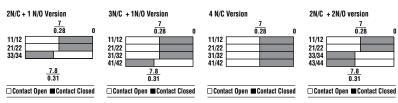


Contact Arrangements



Minimum Allowable Radius for Actuator Entry							
	+		+	+			
44501-0755	175 mm	175 mm	175 mm	175 mm			
44501 -0785	175 mm	175 mm	175 mm	175 mm			
44501-0790	175 mm	175 mm	175 mm	175 mm			
44501-0765	175 mm	50 mm	60 mm	175 mm			
44501-0760	60 mm	60 mm	60 mm	60 mm			

Contact Block Operation at Withdrawl of Actuator

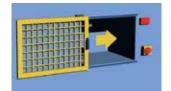




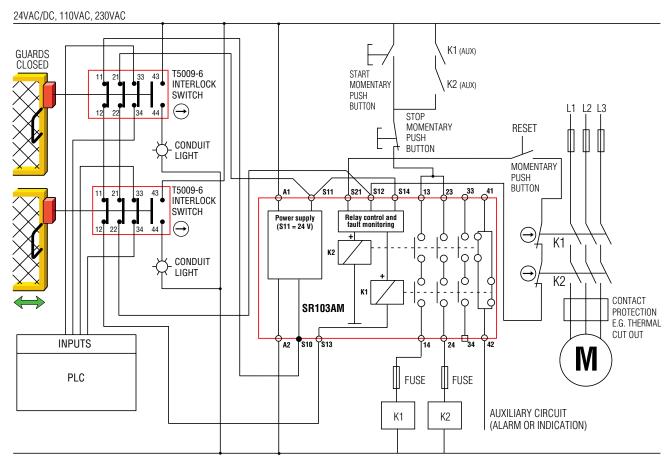


Applications

Typical applications are on sliding guard doors or swinging guard doors with a 2.5 in. minimum swing radius when using the flexible actuators.









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 A-31



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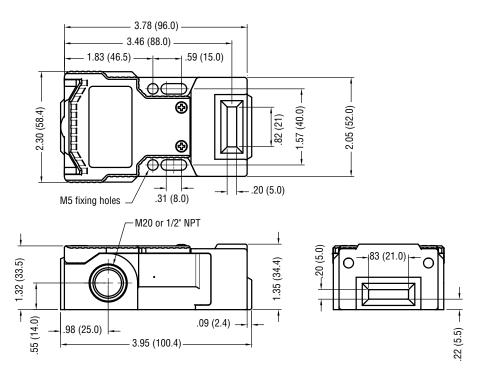


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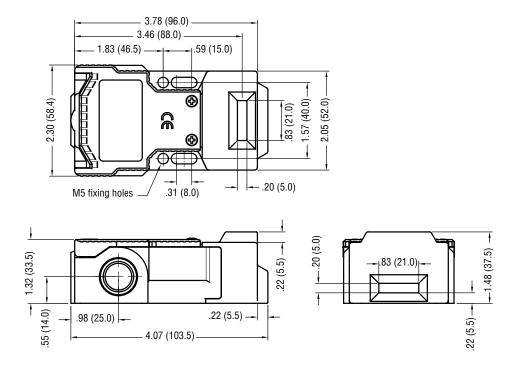


Dimensions (mm/in.)

T5009, T5009-6 Switch with Plastic Head



T5009, T5009-6 Switch with Stainless Steel Head



Select models are available for Rapid Delivery.

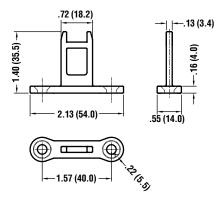
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Standard & Flat Actuator Selections

SA01-STD

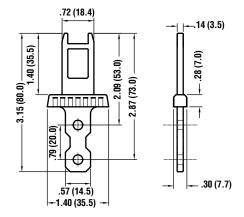
44501-0755 (for use with plastic headed switches)



SA01-FSTD

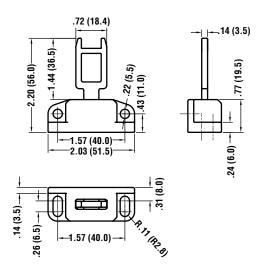
G

44501-0790 (for use with plastic or stainless steel headed switches)



SA01-FLX1

44501-0760 (for use with plastic or stainless steel headed switches)

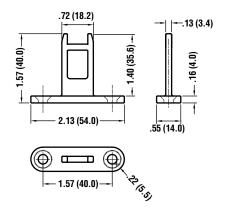


Select models are available for Rapid Delivery.

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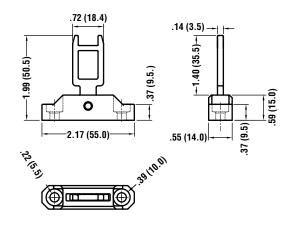
SA01-SSTD

44501-0785 (for use with stainless steel headed switches)



SA01-FLX2

44501-0765 (for use with plastic or stainless steel headed switches)





OMRON

Ordering

	1		
Model	Contacts	Wiring Entry	Part No.
T5009 Switch Only			
T5009-021M	2NC+1NO BBM	3 x M20/NPT	44501-0010
T5009-021MHH (High-Hold Model)	2NC+1NO BBM	3 x M20/NPT	44501-5010
T5009-021N	2NC+1NO BBM	3 X 1/2 NPT	44501-0020
T5009-021NHH (High-Hold Model)	2NC+1NO BBM	3 x 1/2 NPT	44501-5020
T5009-021QD	2NC+1NO BBM	6-pin Micro AC Conn.	44501-0030
T5009-021QDHH (High-Hold Model)	2NC+1NO BBM	6-pin Micro AC Conn.	44501-5030
T5009-021SSM (Stainless Steel Head)	2NC+1NO BBM	3 x M20/NPT	44501-0040
T5009-021SSMHH (Stainless Steel Head, High-Hold Model)	2NC+1NO BBM	3 x M20/NPT	44501-5040
T5009-021SSN (Stainless Steel Head)	2NC+1NO BBM	3 X 1/2 NPT	44501-0050
T5009-021SSNHH (Stainless Steel Head, High-Hold Model)	2NC+1NO BBM	3 x 1/2 NPT	44501-5050
T5009-021SSCC (Stainless Steel Head)	2NC+1NO BBM	6-pin Micro AC Conn.	44501-0060
T5009-021SSCCHH (Stainless Steel Head, High-Hold Model)	2NC+1NO BBM	6-pin Micro AC Conn.	44501-5060
T5009 Standard Actuator			
T5009-021SM	2NC+1NO BBM	3 x M20/NPT	44501-0110
T5009-021SMHH (High-Hold Model)	2NC+1NO BBM	3 x M20/NPT	44501-5110
T5009-021SN	2NC+1NO BBM	3 X 1/2 NPT	44501-0450
T5009-021SCC	2NC+1NO BBM	6-pin Micro AC Conn.	44501-0410
T5009-021FSSM (Stainless Steel Head)	2NC+1NO BBM	3 x M20/NPT	44501-0500
T5009-021FSSN (Stainless Steel Head)	2NC+1NO BBM	3 X 1/2 NPT	44501-0520
T5009 Flex 1 Actuator			
T5009-021F1M	2NC+1NO BBM	3 x M20/NPT	44501-0120
T5009-021F1MHH (High-Hold Model)	2NC+1NO	3 x M20/NPT	44501-5120
T5009-021F1N	2NC+1NO BBM	3 X 1/2 NPT	44501-0170
T5009 Flex 2 Actuator			
T5009-021F2M	2NC+1NO BBM	3 x M20/NPT	44501-0440
T5009-021F2N	2NC+1NO BBM	3 X 1/2 NPT	44501-0470
T5009-6 Switch Only		9111,121111	
T5009-6022M	2NC+2NO BBM	3 x M20/NPT	44501-1020
T5009-6022N	2NC+2NO BBM	3 X 1/2 NPT	44501-1025
T5009-6031M	3NC+1NO BBM	3 x M20/NPT	44501-1030
T5009-6031N	3NC+1NO BBM	3 X 1/2 NPT	44501-1035
T5009-6040M	4NC BBM	3 x M20/NPT	44501-1040
T5009-6040N	4NC BBM	3 X 1/2 NPT	44501-1045
T5009-6022SSM (Stainless Steel Head)	2NC+2NO BBM	3 x M20/NPT	44501-2020
T5009-6022SSN (Stainless Steel Head)	2NC+2NO BBM	3 X 1/2 NPT	44501-2025
T5009-6031SSM (Stainless Steel Head)	3NC+1NO BBM	3 x M20/NPT	44501-2030
T5009-6031SSN (Stainless Steel Head)	3NC+1NO BBM	3 X 1/2 NPT	44501-2035
T5009-6040SSM (Stainless Steel Head)	4NC BBM	3 x M20/NPT	44501-2040
T5009-6040SSN (Stainless Steel Head)	4NC BBM	3 X 1/2 NPT	44501-2045
T5009-6 Standard Actuator	4INC DDIVI	3 X 1/2 INF I	44301-2043
T5009-6022SM	2NC+2NO BBM	3 x M20/NPT	44501-3020
T5009-6022SN	2NC+2NO BBM	3 X 1/2 NPT	44501-3020
T5009-6031SM	3NC+1NO BBM	3 x M20/NPT	44501-3025
T5009-6031SN	3NC+1NO BBM	3 X 1/2 NPT	
	4NC BBM		44501-3035
T5009-6040SM		3 x M20/NPT	44501-3040 44501-3045
T5009-6040SN Actuators For Plactic Hooded T5009 T5009-6 Switches	4NC BBM	3 X 1/2 NPT	44001-3040
Actuators For Plastic Headed T5009, T5009-6 Switches SA01-STD, Standard Actuator T5009, T5009-6, Plastic Head Switches			11501 0755
Actuators For Stainless Steel Headed T5009, T5009-6 Switches			44501-0755
SA01-SSTD. Standard Actuator for T5009. T5009-6 Stainless Steel Head Switches			11501 0705
, and a second control of the second control			44501-0785
Actuators Compatible with both Plastic and Stainless Steel Headed T5009, T5009-6 Switches			
SA01-FLX1, Flex 1 Actuator T5009, T5009-6, Plastic or SS Headed Switches			44501-0760
SA01-FSTD, Flat Actuator T5009, T5009-6, Plastic or SS Headed Switches			44501-0760
SA01-FLX2. Flex 2 Actuator T5009, T5009-6, Plastic or 55 Headed Switches			44501-0790
Accessories			44301-0703
			44510.0110
Spare M20 to 1/2" NPT Adapter			44512-0110
M20 Cord Grip PPM - Prock Peters Make Contacts			44512-0090

BBM = Break Before Make Contacts



Visit this product on www.sti.com for details..



For information on Accessories, including Conduit Lights and Cables with Mating Connectors, see page G-209.





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C26I-E-01 08/14

Note: Specifications are subject to change.

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