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Safety Tongue Switches the TTS1

Description

The TTS1 is a tongue-operated (or key-operated) safety interlock switch designed to fit at the leading edge of sliding, hinged or lift-off guards. With its dual entry slots and rotatable head, the versatile TTS1 can offer up to eight different actuator entry options. The unique compact housing (103×31×31 mm) has industry standard DIN 50047 fixing centers for ease of mounting.

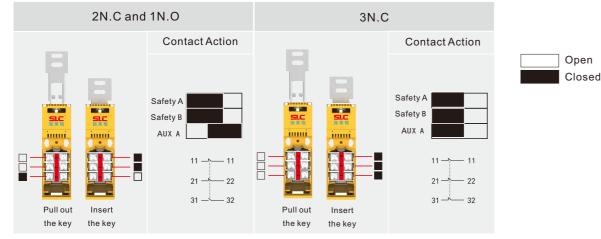
Operation of the switch is achieved through the insertion of a specially-profiled stainless-steel key that is permanently mounted to the guard door.

Available with a variety of contact configurations, the TTS1 is sealed to IP67. A blanking plug is supplied for the unused key entry.

Features

- Compact size
- Ldeal for small, lightweight guards
- ontacts, 2 N.C. and 1N.O. or 3 N.C
- Sealed to Ip67
- Eight possible actuator entry points, easy to install
- Industry standard fixing centres to DIN 50047

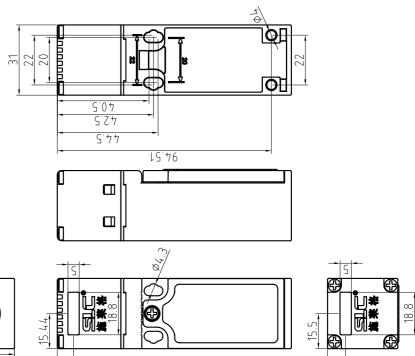
Contact Configuration and Contact Action

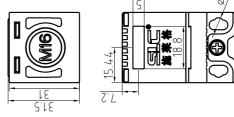


Product Selection

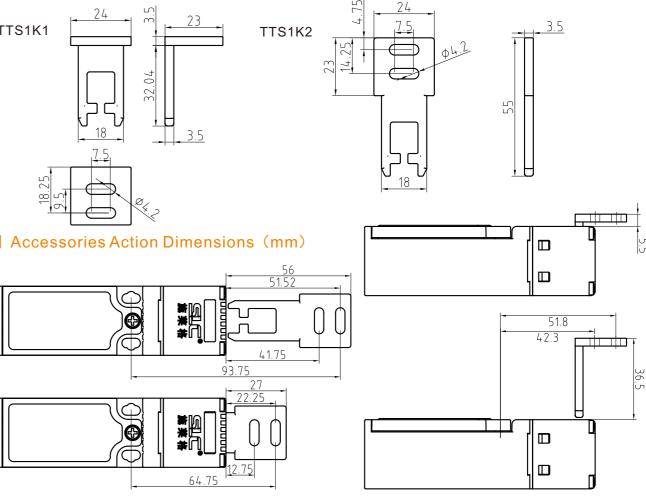
Product Type	Contact Configuration	Picture	LOT
TTS13C	3 N. C		LOT1033220L30
TTS12C10	2 N. C and 1 N. O		LOT1033220L21
TTS1K1	90° Key	1. John Market Ma	LOTTTS1-L1
TTS1K2	180° Key	ET.	LOTTTS1-B1

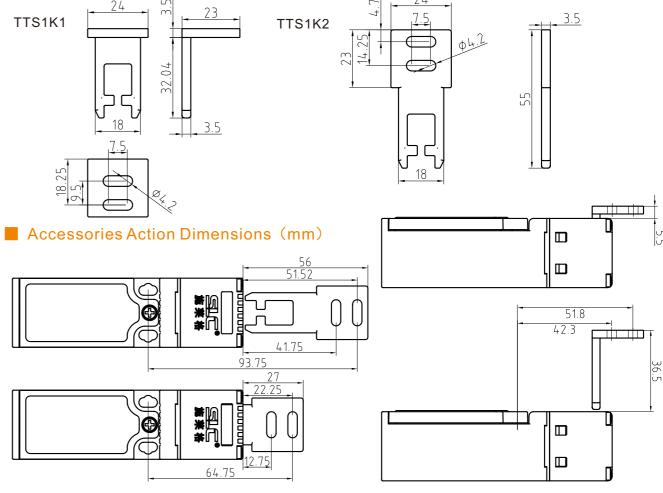
Approximate Dimensions (mm)





Accessories Dimensions (mm)





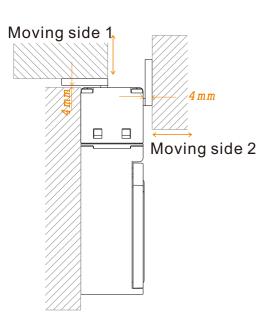


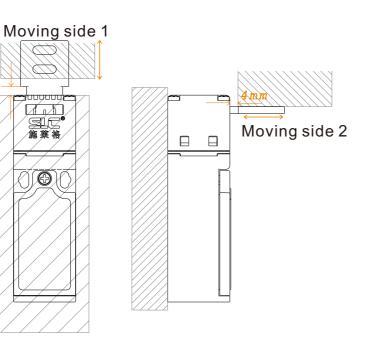


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Typical applications





Maximum movement distance of accessories 28mm

Specifications

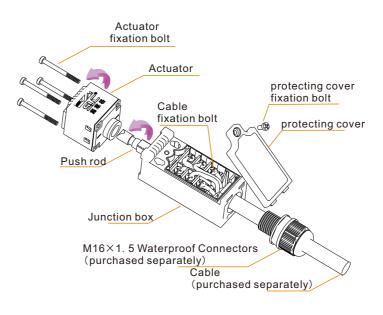
Safety Ratings						
Standards		EN60947-5-1/GB14048.5				
Safety Classification		Cat.1 device per EN 954-1 dual channel interlocks Suitable for Cat.3 or 4 systems				
		CE				
Mechanical Life		1×10 ⁶ operations				
Electrical Life@50mA		I×10 ⁶ operations				
Electrical Characteristics						
Rated Insulation Voltage			(Ui)300V			
Operating Voltage			Class II			
Pulse voltage (EN60947-5-			1) 2.5KV			
Switching Current@Voltage,			Min 5mA@5V DC			
Operating Characteristic						
Break Contact Force, Min.			≤15N			
Actuation sPEED,MAX.			≤160mm/s			
Actuation Frequency, MAX.			2cycles/s			
Contact Type						
Safety Contact 2		2 N.C 3 N.C		3 N.C		
Aux Contact		1 N.	0	-		

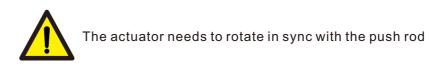
Utilization Category						
Load Type	AC-15	DC-13				
Nominal voltage (Ue	240V	24V				
Rated current (Le)	3A	2A				
Environmental						
Enclosure Type Rating	J lp67	Ip67				
Operating Temperatur	-20~+80°C					
Ambient humidity	≤95%	≤95%				
Vibration resistance	10~55Hz(Unilateral amplitude0.75mm)					
Impact resistance	300m/s2					
Physical Characteristics						
Weight	200g					
Color	Yellow					
Housing Material	ULApproved thermoplastic plastics					
Actuator Material	Stainless steel	tainless steel				

Installation procedure

Many safety switches allow the head of the switch to rotate, offering different options on how the switch can be operated and mounted on the guard. This offers flexibility to best fit typical applions.

The head can be rotated 4 times at 90° allowing the key to fit the switch in 8 different positions.

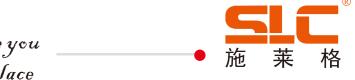


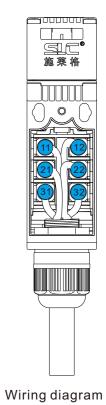


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