

# TMC6 TMC7 TMC8 TMC9 non - contact RFID safety switches





Compared with mechanical switch or magnetic switch, the safety switch based on RFID technology has the characteristics of security detection, strong anti-interference, safety and reliability. Can effectively prevent misstatement or false alarm, or artificial abnormal trigger. The safety level of SIL3 or PLe can be achieved by using the safe dual-channel output technology, so it can be applied to a variety of high risk situations. It can be used with safety latch.

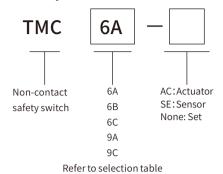
#### Technical parameters

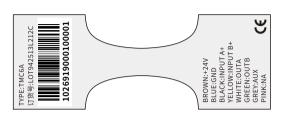
Standard  ISO 13849-1, IEC/EN60947-5-3  Security  Classification  Achieved ISO13849-1 4 types of switches/SIL3  Dual channel interlock fit in PLe/PLd					
Security Achieved ISO13849-1 4 types of switches/SIL3					
Protection					
Safety short circuit protection					
Current limit					
Overload protection					
Over voltage protection					
Overheat protection stops and restarts					
Reverse polarity protection					
Transient noise protection					
Failure pulse protection					
Output					
Safety output Two redundant PNP outputs					
Two reduitdant Five Outputs					
Aux contact output Single channel PNP output (non-safe outp					
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# Model specification

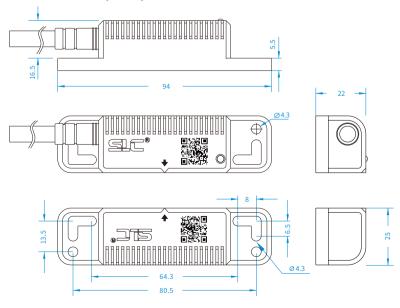




#### Selection table

Model				
Actuators	Sensor	Actuators +Sensor	Specification	
TMC6A-AC	TMC6A-SE	TMC6A	8-core direct lead universal code safe RFID switch with cascade function	
TMC6B-AC	TMC6B-SE	TMC6B	8-core M12 universal code safe RFID switch with cascade function	
TMC6C-AC	TMC6C-SE	TMC6C	8-core direct lead universal code safe RFID switch without cascade function	
TMC6D-AC	TMC6D-SE	TMC6D	8-core M12 universal code safe RFID switch without cascade function	
TMC7A-AC	TMC7A-SE	TMC7A	With magnetic holding, 8-core direct lead general code safe DFID switch with cascade function	
TMC7B-AC	TMC7B-SE	ТМС7В	Magnetic holding, 8-core M12 universal coding security RFID switch band with cascade function	
TMC7C-AC	TMC7C-SE	TMC7C	With magnetic holding, 8-core direct lead general code safety DFID switch without cascade function	
TMC7D-AC	TMC7D-SE	TMC7D	Magnetic holding, 8-core M12 universal coding security RFID switch band without cascade function	
TMC8A-AC	TMC8A-SE	TMC8A	8-core direct lead uniquely coded secure RFID switch with cascade function	
TMC8B-AC	TMC8B-SE	TMC8B	8-core M12 uniquely coded secure RFID switch with cascade function	
TMC9A-AC	TMC9A-SE	TMC9A	Magnetic holding, 8 - core direct lead unique code safe RFID switch, with cascade function	
TMC9B-AC	TMC9B-SE	ТМС9В	Magnetic holding, 8 - core M12 unique coding safe RFID switch, with cascade function	

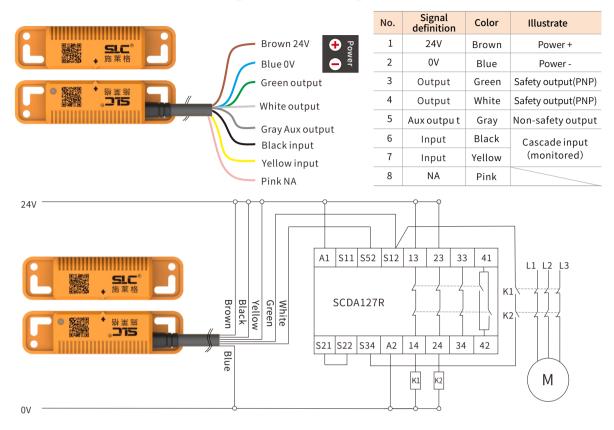
#### Installation dimensions(mm)



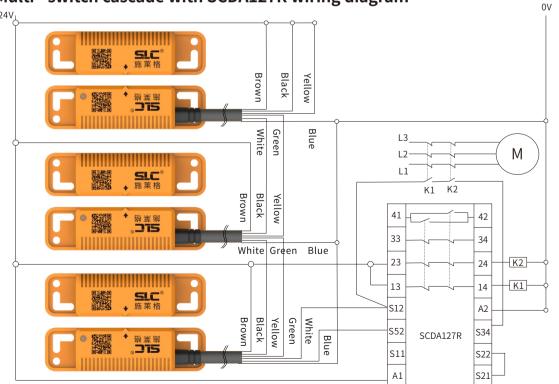
\*\*Depending on the product configuration and manufacturing process, the actual product size and weight may vary, please refer to the actual product.



### Examples of application wiring with cascading function



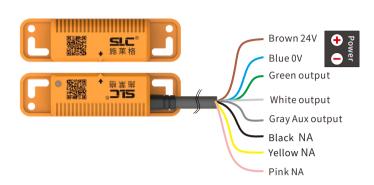
Multi - switch cascade with SCDA127R wiring diagram



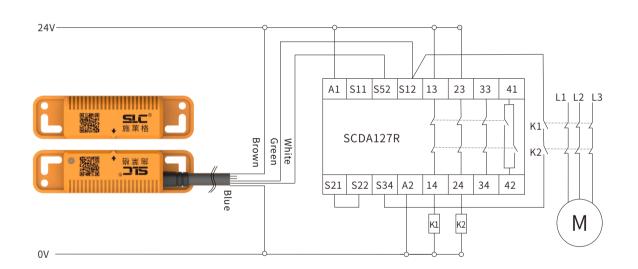
\*Depending on the product configuration and manufacturing process, the actual product size and weight may vary, please refer to the actual product.



# No cascading functional wiring



No.	Signal definition	Color	Illustrate	
1	24V	Brown	Power +	
2	0V	Blue	Power -	
3	Output	Green	Safety output(PNP	
4	Output	White	Safety output(PNP)	
5	Aux outpu t	Gray	Non-safety output	
6	NA	Black		
7	NA	Yellow		
8	NA	Pink		



# Indicator state

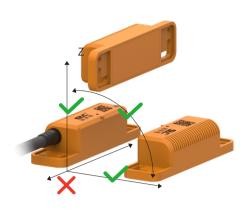
LED display	Output state				
LLD display	Main output A	Main output B	Aux output	Statements	
Red on	Break	Break	Break	No actuator or incomplete alignment	
Red 4Hz flash	Break	Break	Break	For unrecoverable errors, check the input line	
Red 1Hz flash	Break	Break	Break	Output error, check output line	
Green on	Make	Make	Make	Induction of normal	



#### TMC6 TMC7 TMC8 TMC9 SERIES OF NON - CONTACT RFID SAFETY SWITCHES

# Approach direction





# Induction curve

	Misalignment deviatio	Make	Break	On the schematic	
alignment	The deviation is in the X direction ±4mm range	The Y direction induction can reach a minimum of 15mm  Y direction sensing distance >30mm		SE SIC	
Horizontal ali	The deviation is in the X 4mm ~8mm and-8mm~4mm range	The Y direction induction can reach a minimum of 11mm		Y	
Hori	The deviation is in the X direction >8mm and <-8mm	0 X			
The vertical alignment	The deviation is in the X direction ±4mm range	The Z direction induction can reach a minimum of 15mm Z direction sensing		Z	
	The deviation is in the X 4mm ~10mm and -10mm~-4mm range	Z direction induction distance >30mm decreases from 8mm to 10mm			
The ve	The deviation is in the X direction >10mm and <-10mm	Not recomme	nded	0 X	

# Magnetic curve

