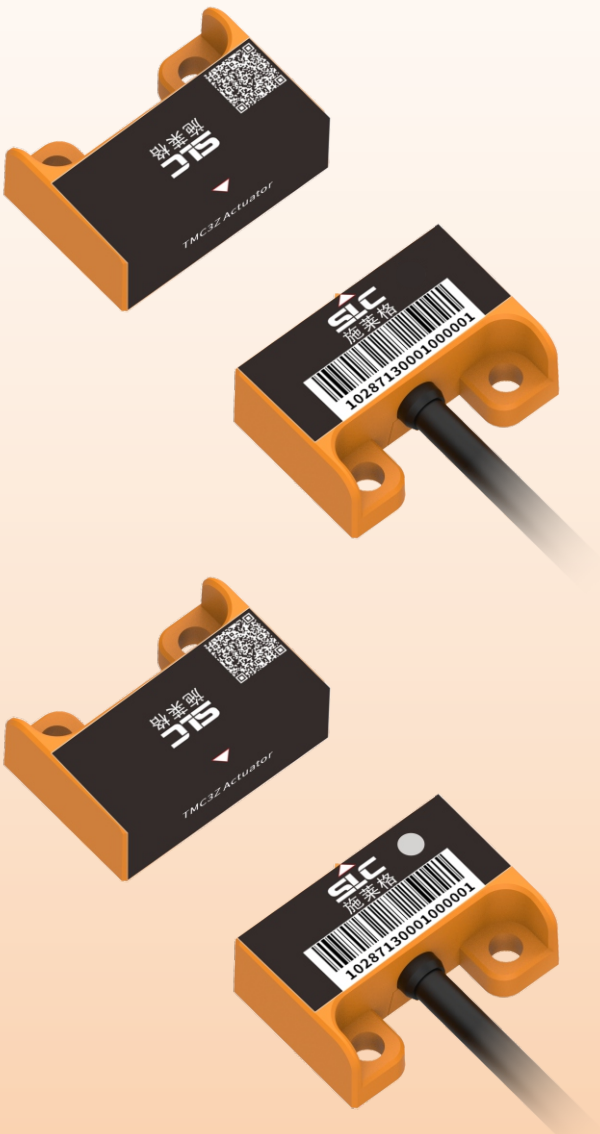
TMC3Z series non - contact magnetic coded safety switches



TMC3Z Series Function Features

The TMC3Z switch uses a permanent magnet to trigger the reed switch to detect the status of the switch, and has the characteristics of small size, simple installation, sensitive detection, and multiple non-contact independent contacts.

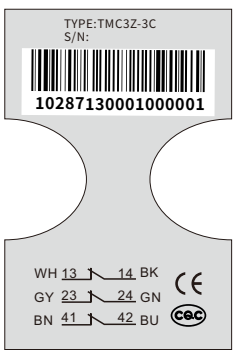
Technical Parameters

Technical parameters	
Safety Standard	ISO 13849-1；EN60947-5-1； GB14048.5
Security Classification	Two Channel ISO13849-1，SIL 3or Type 4
Certification	CE CCC（CQC）
B10d	$1.4x10^7$
MTTFd	30 years
Coding Type	Magnetic coding
Detection Distance	4mm
Voltage	Max. 100 VDC
Current	Max. 0.5A
Capability	Max. 10 VA
Operating Frequency	Max. 5Hz
Protection Grade	IP67
Vibration (durable)	10-55Hz，1mm
Impulse (durable)	30g/11ms
Operating Temperature	-25°C~75°C
Material	PA66

TMC3Z Series Model Specification

TMC3Z– [3C] [ ] – L

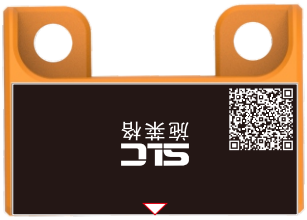
- Non-contact safety switch
- 1C1O:Always open an always closed
  2C1O: Two normally closed and one normally open
  2C : Two way normally closed
  3C : Three way normally closed
- AC:Actuator
  SE:Sensor
  None: Set
- 无：100V (No LED Sign)
  L：24V (LED Sign)



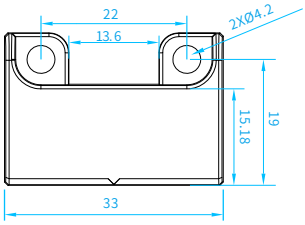
TMC3Z Series Selection Table

Model			Specification	Order Number (Actuators+sensors)
Actuators	Sensors	Actuators+sensors		
TMC3Z-2C1OAC	TMC3Z-2C1OSE	TMC3Z-2C1O	6-core direct lead normally close two ways normally open all the way	LOT33232240221
TMC3Z-3CAC	TMC3Z-3CSE	TMC3Z-3C	6-core direct lead normally close three ways	LOT33232240230
TMC3Z-2CAC	TMC3Z-2CSE	TMC3Z-2C	4-core direct lead normally close two ways	LOT33232240220
TMC3Z-1C1OAC	TMC3Z-1C1OSE	TMC3Z-1C1O	4-core direct lead normally close all way normally open all way	LOT33232240211

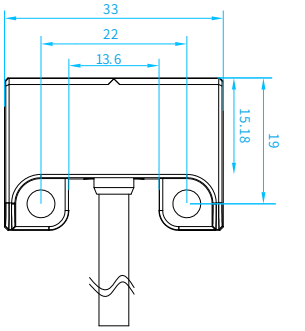
TMC3Z Series Installation Dimensions (mm)



Actuators

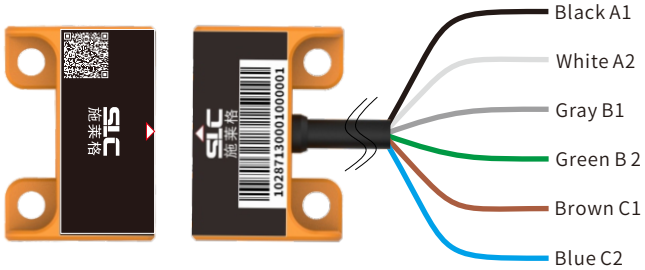


Sensors



TMC3Z Series Wiring Diagram

◆ TMC3Z series wiring diagram (2C1O)

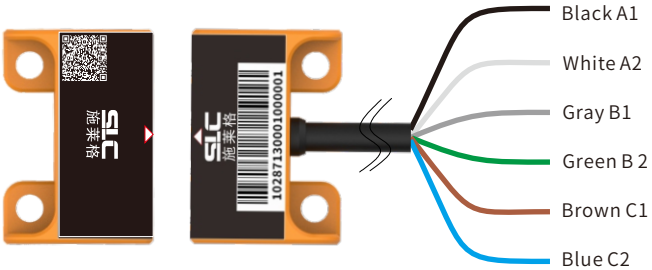


No.	Signal definition	Color
1	Normal close output A1	Black
2	Normal close output A2	White
3	Normal close output B1	Gray
4	Normal close output B2	Green
5	Normal open output C1	Brown
6	Normal open output C2	Blue

※A1/A2 one set output，B1/B2 one set output，C1/C2 one set output

TMC3Z SERIES NON - CONTACT MAGNETIC CODED SAFETY SWITCHES

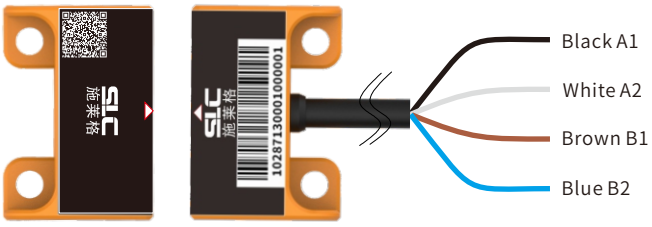
TMC3Z series wiring diagram (3C)



No.	Signal definition	Color
1	Normal close output A1	Black
2	Normal close output A2	White
3	Normal close output B1	Gray
4	Normal close output B2	Green
5	Normal close output C1	Brown
6	Normal close output C2	Blue

※A1/A2 one set output，B1/B2 one set output，C1/C2 one set output

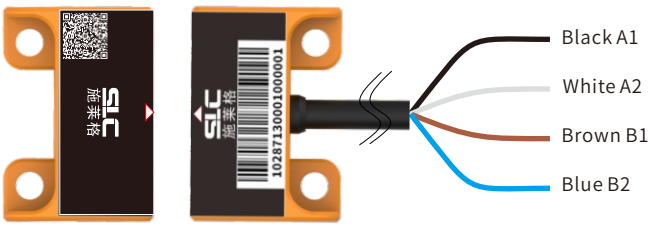
TMC3Z series wiring diagram（1C1O）



No.	Signal definition	Color
1	Normal close output A1	Black
2	Normal close output A2	White
3	Normal open output B1	Brown
4	Normal open output B2	Blue

※A1/A2 one set output，B1/B2 one set output

TMC3Z series wiring diagram（2C）

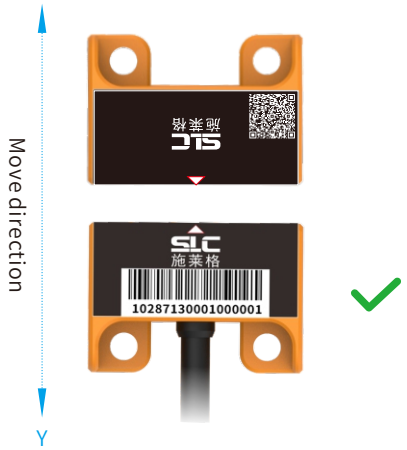


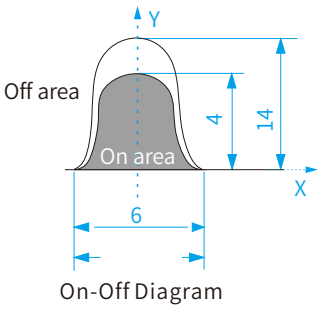
No.	Signal definition	Color
1	Normal close output A1	Black
2	Normal close output A2	White
3	Normal close output B1	Brown
4	Normal close output B2	Blue

※A1/A2 one set output，B1/B2 one set output

TMC3Z Series Instruction

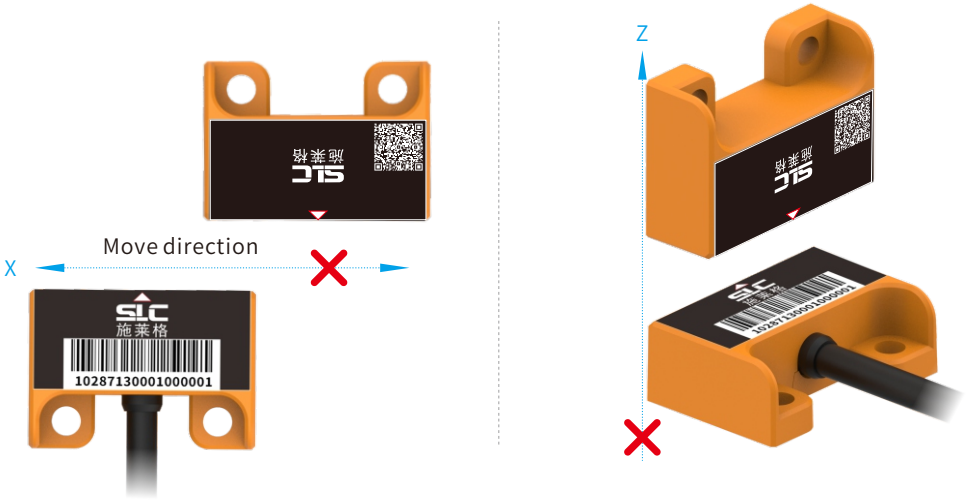
TMC3Z Correct Approach





On-Off Diagram

TMC3Z Wrong Approach

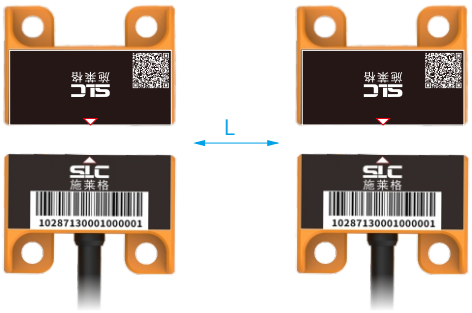


Notes

About installation

When mounted on a magnetic material such as an iron plate the characteristics change.

When multiple sets are used at the same time,pay attention to the installation spacing L is not less than 100mm.



Others

When the switching part is subjected to a large impact or a current or voltage that exceeds the contact capacity, it will cause poor operation.