LT87 Series Multi Axis Joystick

Product Features

- Ergonomic design, mainly for high altitude working vehicle design application.
- The non-contact Hall sensor detects the operating angle.
- The spring return handle can be operated in any direction of single or double shaft.
- The type of the upper end and the number of switches and whether to configure analog quantity can be customized.
- Optional CAN bus output.

Application

This series of products are mainly used in high-altitude working arm truck, road machinery, fire fighting vehicles, mining machinery and other equipment.

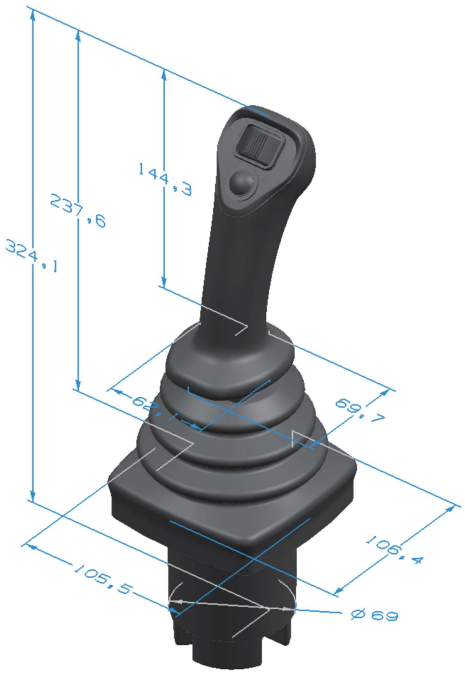
Technical Information

Electrical data	
Hall	
Supply voltage	5±0.5Vdc
Supply current	<11 mA (Each hall sensor)
Limit allowed overvoltage	20Vdc
Reverse limit allowable voltage	-10Vdc
Linear error of output voltage	±0.2Vdc
CAN BUS	
Mains input	9~36Vdc
CAN	CAN2.0B
Agreement	J1939
Connection port	Customization

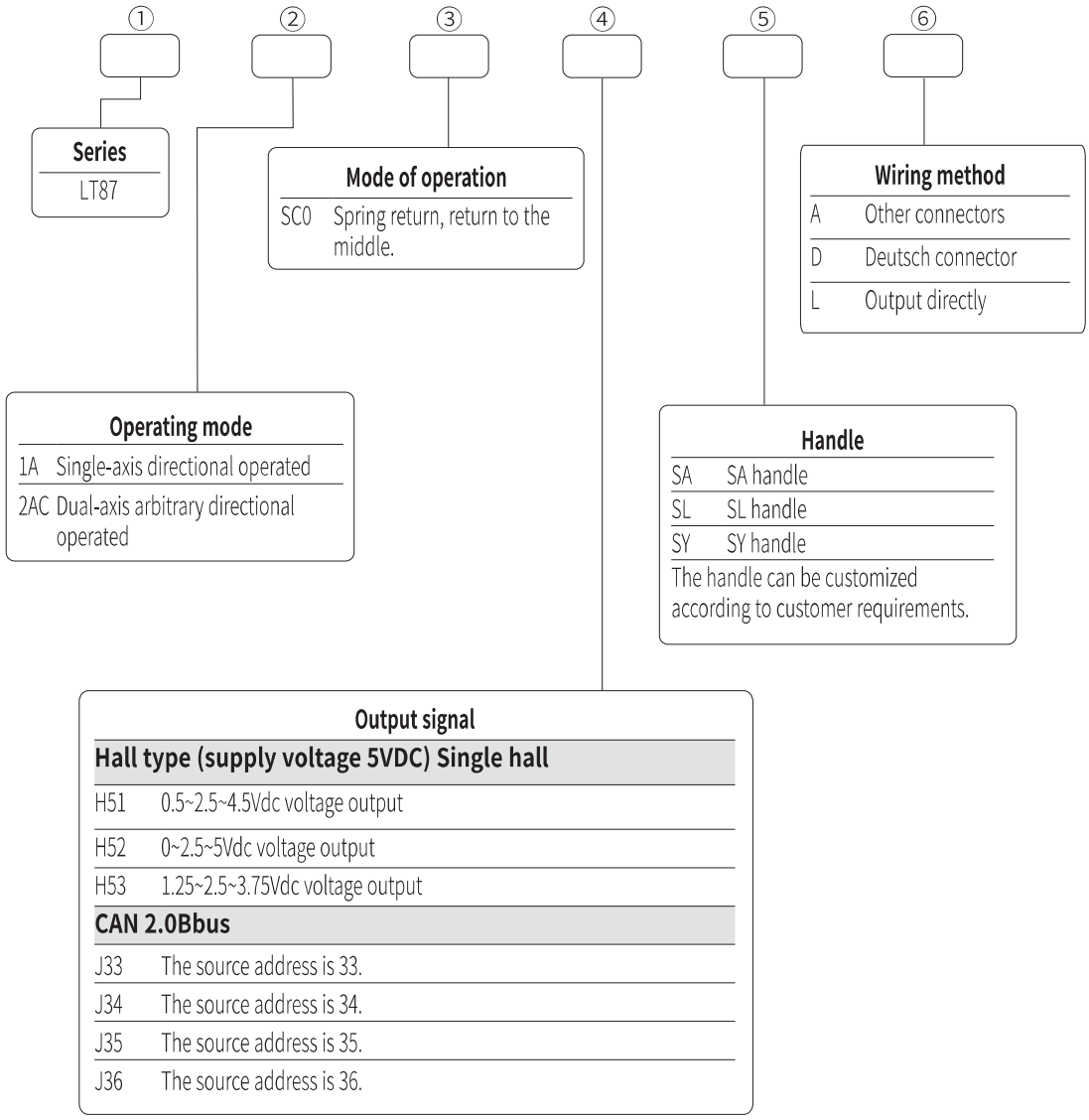
Mechanical parameter	
Shaking angle	±23°before and after±18°
Operating mode	Automatic spring reset
Starting force	4N
Maximum operating force	11N
Margin pressure test location	>300N
Service life	>2M
Weight	About 1KG

Environmental parameter	
Operating temperature	-30C~+70°C
Storage temperature	-40°C~+85°C
Level of protection	IP65 (Above mounting panel)

Dimensions

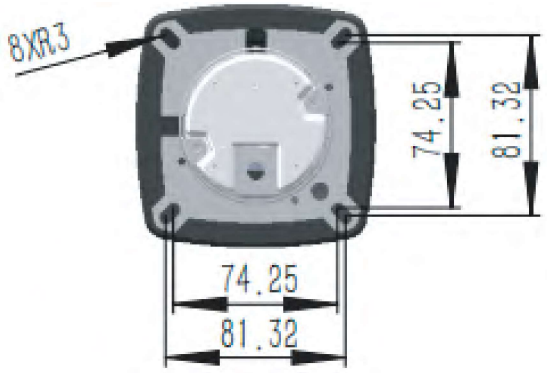


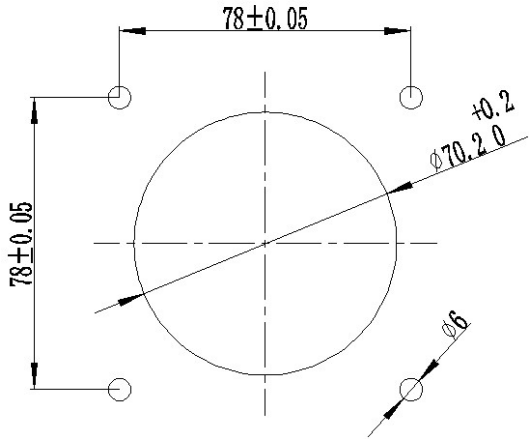
Product Configuration



Product Installation

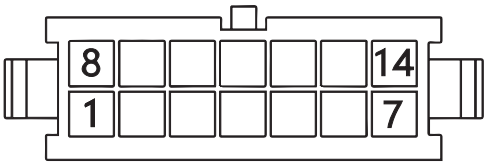
Customer installation diagram





Outline and hole size drawing

Qualification definition



Wiring diagram

The bottom line definition			Top out line definition	
Pin	Line color	Function	Line color	Function
1	Red	The supply voltage is 5Vdc	White	Stilt Plate left (1a)
2~3			Red	Common end of stilt board (1)
4	Black	Power supply 0V	Brown	Stilt Plate right (1a)
5	Blue	The supply voltage is 12Vdc.		
6~8				
9	Green	Hall output.		
10				
11	Gray	Y-output 12V (rear direction)		
12				
13	Brown	Y+ Output 12V (rear direction)		
14				