

# LT5 Series Single Axis Joystick

## Product Features

- Hall effect without contact angle detection.
- Friction, mechanical lock optional at center or end position
- Wide supply voltage range

## Application

Typical application on mining machinery, off-highway vehicle.

## Technical Information

### Electrical Data

Hall	
Power supply	5 ± 0.5Vdc
Power supply current	<11mA
Maximum allowance overload	30Vdc
Reverse polarity voltage (max)	-15Vdc
Center output voltage	2.5 ± 0.1V
Output linearity tolerance	< ± 0.2V

### With electronic amplifier

Power supply	9~18Vdc (U 11~U 15); 18~36Vdc (U 21~U 25)
Power current consumption	20mA

### Mechanical features

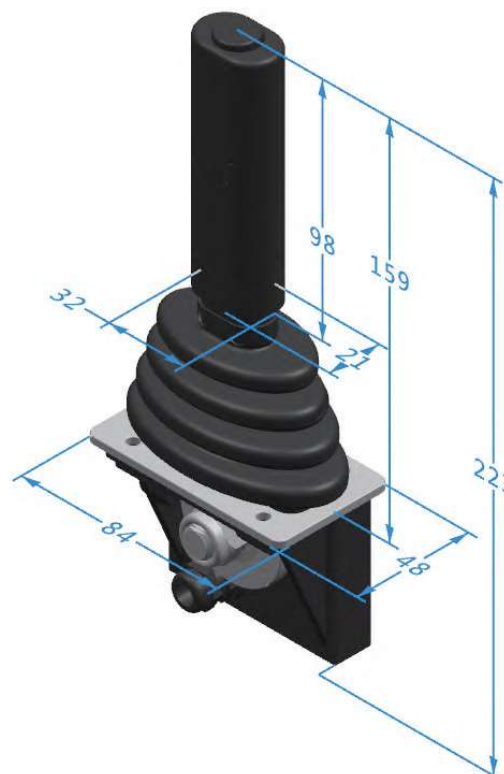
Travel angle	± 35°, ± 45°
Operating type	Friction
Breakout force	28-30N
Maximum allowable force	>300N
Expecting life	about 1 million cycles
Weight	540g (without handle)

### Environmental data

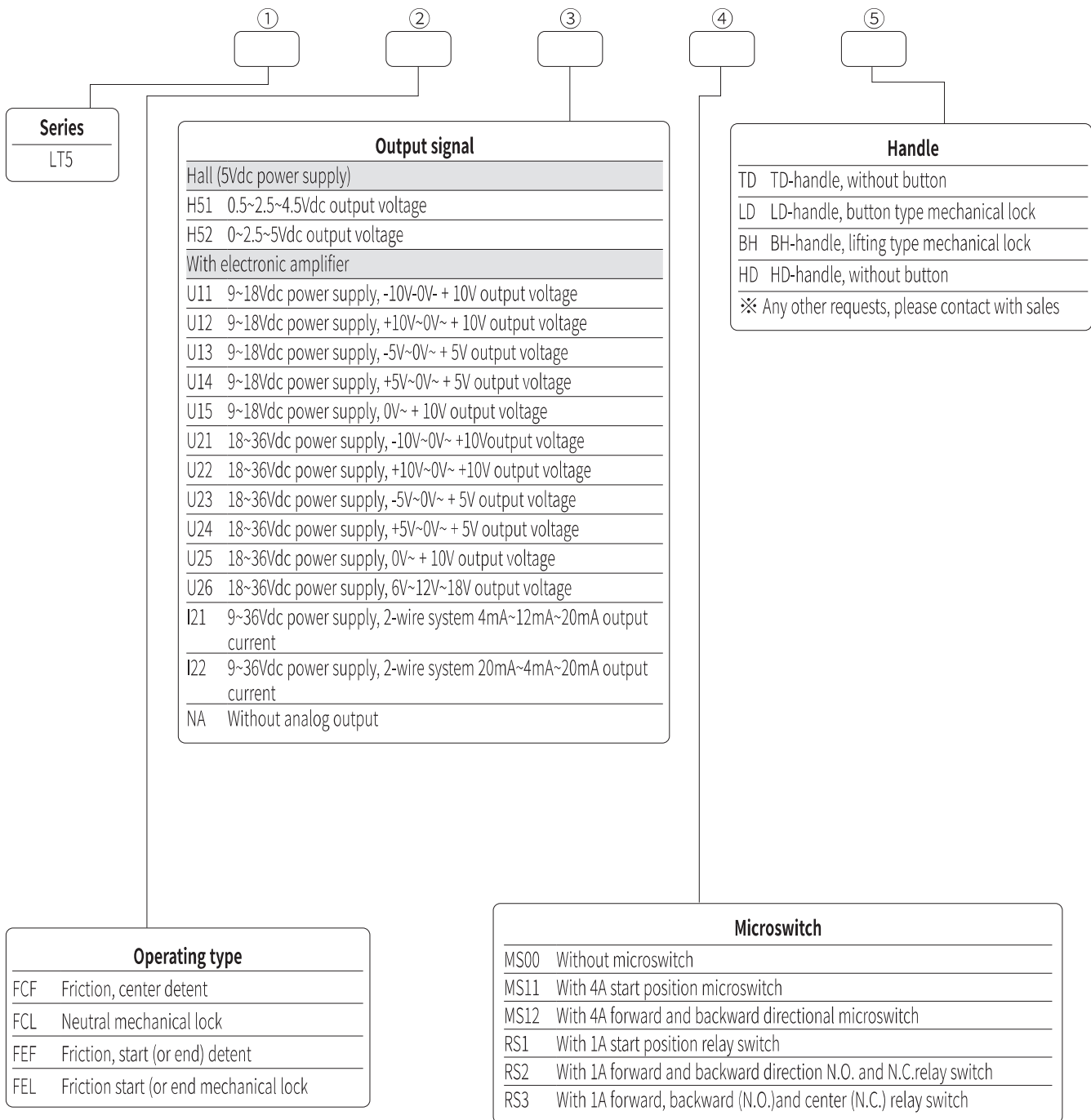
Operating temperature	-30°C ~ +70°C
Storage temperature	-40°C ~ +85°C
Protection level	IP54(BH handle) IP65(Other handle)



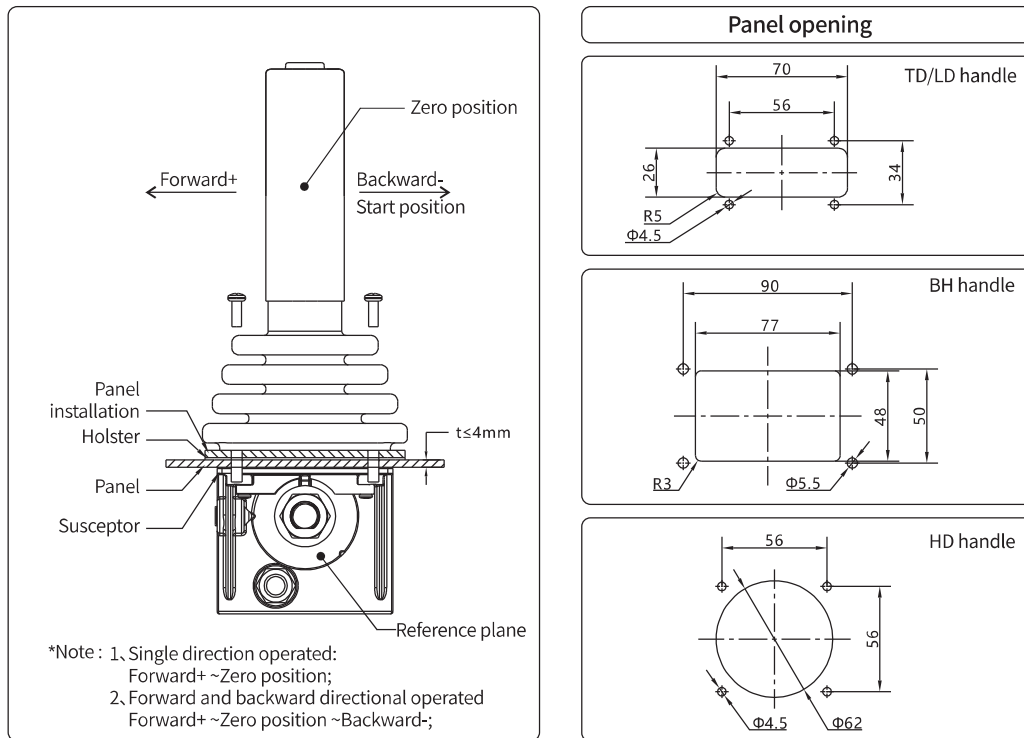
## Dimensions



## Product Configuration



## Product Installation



## Electrical Connections

### Hall

NO.	Hall	Colour
1	VCC	Red
2	GND	Black
3	OUT	Yellow
4	Normally open switch 1	White
5	Normally open switch 2	Blue

### With electronic amplifier connections (output voltage)

No.	Colour	RS2	RS3
1	Brown	9~18Vdc 18~36Vdc	9~18Vdc 18~36Vdc
2	Blue	0V	0V
3	Black	Output positive	Output positive
4	White	Output negative	Output negative
5	Yellow	com	com
6	Green	Forward switch (N.O.)	Forward switch (N.O.)
7	Red	Backward switch (N.O.)	Backward switch (N.O.)
8	Purple	Forward switch (N.C.)	Center switch (N.C.)
9	Gray	Backward switch (N.C.)	Center switch (N.C.)

**Note:** See Appendix for wiring diagram and Appendix for output diagram.