



Multi-function Joystick Model

D254

Product Features

- Unique base design with integrated DTM connector
- Single-axis or dual-axis operation with spring return to center
- Compact and streamlined structure, suitable for harsh working environments

Market Application

- Compact and streamlined structure, suitable for harsh working environments
- Aerial work platforms, rotary drilling rigs, cranes, drill rigs and other electric & electro-hydraulic control systems



Technical Data

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Tilting Angle	$\pm 20^\circ / \pm 25^\circ$
Operating Force	10~16N
Limit Force	300N
Service Life	Over 5 million cycles
Weight (Base Only)	420g
**Distance from Pivot Point 90 mm	



**Electrical Parameters**

Analog / Hall Voltage Type	
Supply Voltage	5.0 ± 0.5Vdc
Supply Current	<12 mA per channel
Midpoint Voltage	2.5±0.1V
Output Linear Error	±3%
Max Overvoltage	20Vdc
Max Reverse Voltage	-10Vdc
Load Resistance	>10KΩ
Analog Modulated Voltage Type	
Supply Voltage	9-36V dc
Supply Current	<20 mA per channel
CAN Bus Type	
Supply Voltage	9-36Vdc
Supply Current	< 100mA (24Vdc)
CAN Version	CAN 2.0b
CAN Protocols	1939 / CAN OPEN
Baud Rate	250 Kbps (J1939) / 10Kbps~1Mbps (CAN OPEN)
Environmental Specifications	
Operating Temperature	-30°C ~ +70°C
Storage Temperature	-40°C ~ +85°C
Protection Class	IP65 (Above the mounting panel)



**Model Selection Guide**

Model No.	D254-①-②-③-④-⑤-⑥-⑦
① Limit	
SS	Single-axis Y-direction operation, spring return
DS	Dual-axis omnidirectional operation, spring return
② Spring Force	
L	10 N initial force, 16 N full stroke force
③ Mounting Pane	
571	Mounting hole pitch 57*57 mm
572	Mounting hole pitch 57*57 mm (slotted holes)
751	Mounting hole pitch 75*75 mm (bottom-up assembly)
752	Mounting hole pitch 75*75 mm (top-down assembly)
③ Handle Top	
BA	Ball-shaped head without buttons
BW	Barrel-shaped head without buttons, with analog rocker switch
M1B6	Curved grip head with enable switch and top rocker switch
M1N6	Curved grip head with enable switch and one top pushbutton (latching button optional)
M2B6	Straight grip head without enable switch, with top rocker switch
KHM2	Multi-function extended grip head
	*Contact our sales team for detailed extended functions
④ Output Type	
H1	Hall type, 5Vdc supply, output 0.5–2.5–4.5 V
2H1	Redundant Hall type, 5Vdc supply, output 0.5–2.5–4.5 Vdc (single-axis only)



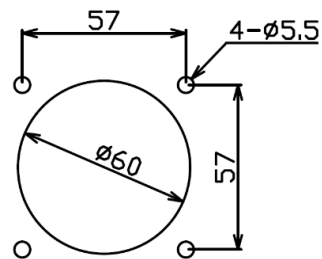


U1	25%-50%-75% modulated voltage output
CA	CAN bus signal output
	*Contact our sales team for customized output requirements
⑤ Direction Microswitch	
N	No micro switches
⑥ Cable Exit	
T	Connector outlet
L	Direct cable outlet (AWG24 cable, standard length 500 mm) *Custom connectors available upon consultation with sales staff

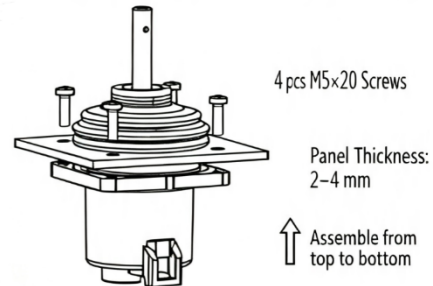


Mounting Panel

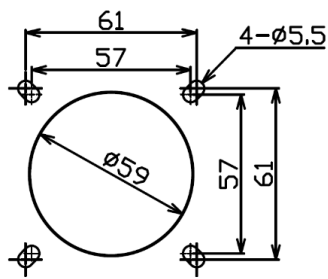
571- (Mounting hole pitch 57*57mm)



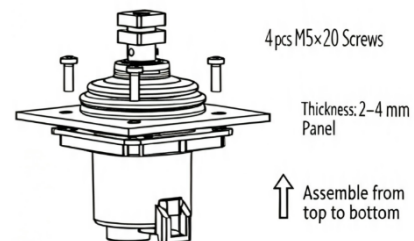
Installation Diagram



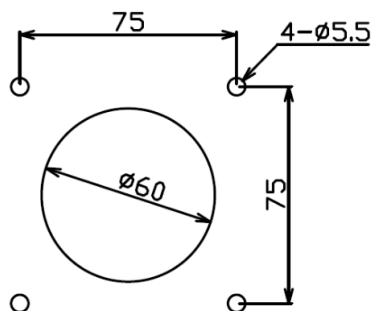
572- (Mounting hole pitch
57*57/61.4*61.4mm)



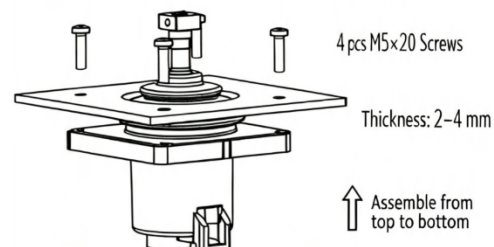
Installation Diagram



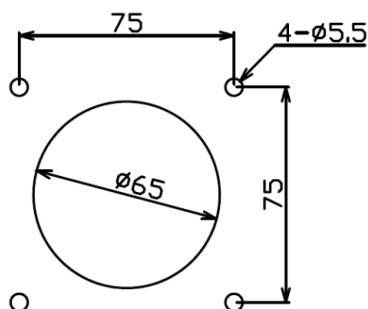
751- (Mounting hole pitch 75*75mm)



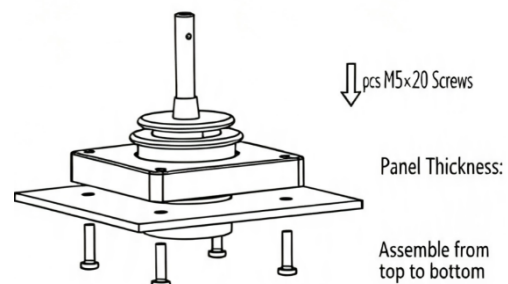
Installation Diagram



752- (Mounting hole pitch 75*75mm)

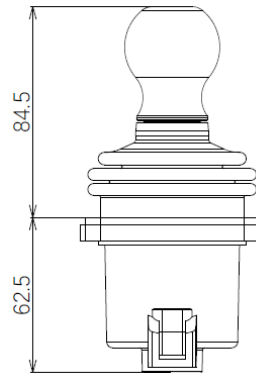
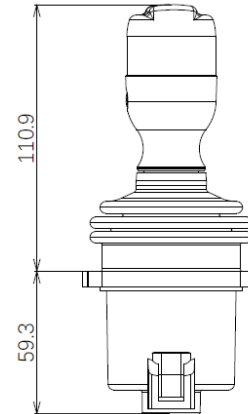
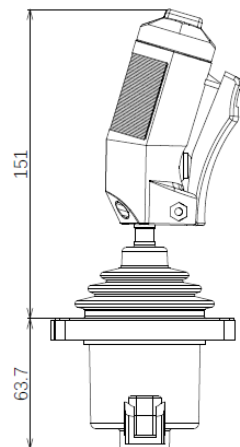
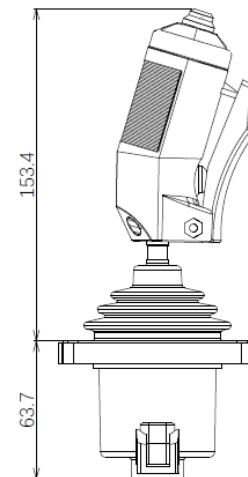
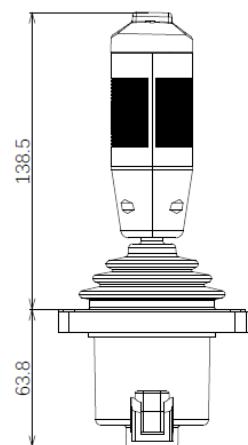


Installation Diagram





Handle Top Options

BA Top**BW Top****M1B6 Top****M1N6 Top****M2B6 Top****KHM2 Top**