

GA1

INDUSTRIAL JOYSTICK

- Potentiometer or Hall Sensor
 - Single or dual axis options
 - High-strength handle with excellent proportional control and on/off output
 - Protection rating: IP64 (above panel)
 - Easy installation, smooth operation, durable, and maintenance-free
- The GA1 joystick is widely used in rotary drilling rigs, aerial fire trucks, crane shield machines, oil hoists, hydraulic proportional control systems, and frequency conversion motor control.

Technical Data

Operating Temperature: -40°C to +80°C

Handle Force: <20N

Mechanical Life: 5M

Operating Torque: ~5N (max 50N)

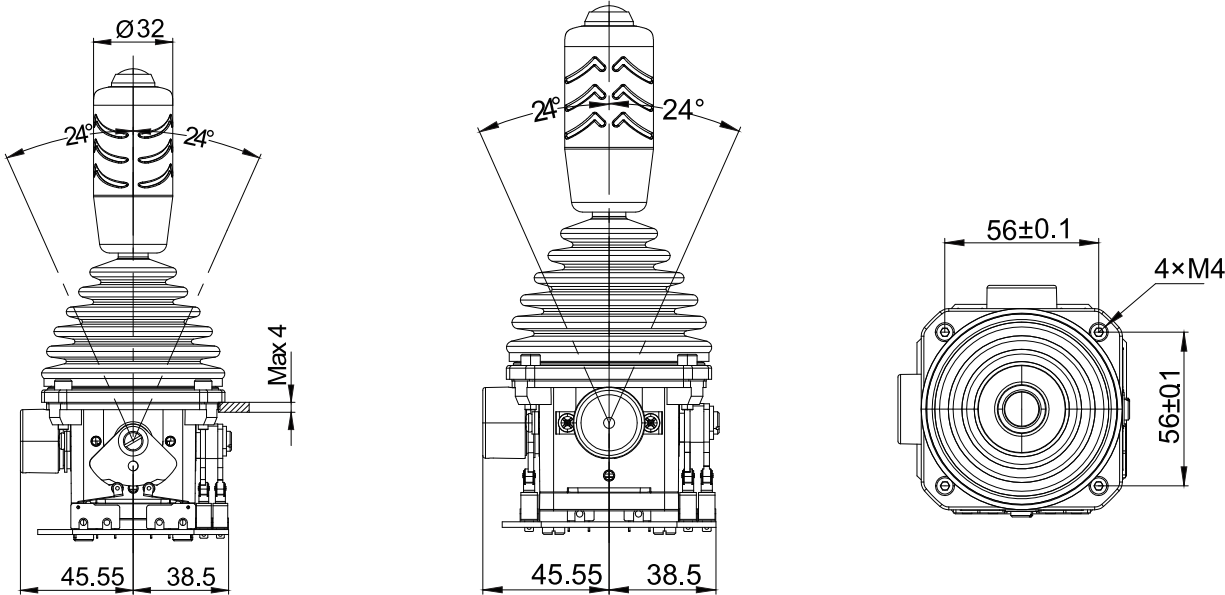
EMS Interference Resistance: Tested at 100V/m, frequency range 30MHz to 1GHz, with 80% sine wave modulation, meeting EN50082-2 (1995) standards.

ESD Protection Level: 4.8kV for contact discharge, 15kV for air discharge, compliant with IEC61000-4-2 standards.



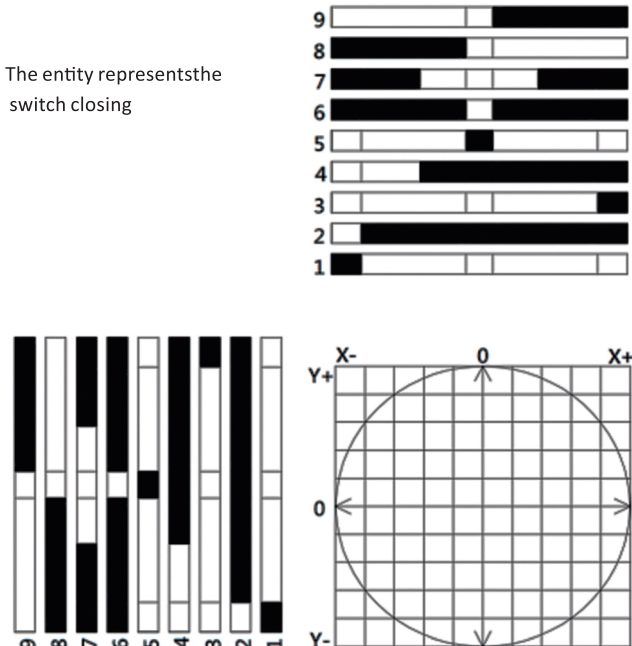
Selection	Palm Grips	Gate	Axis1			Axis2			Contact arrangement
			Axis 1	No. of contacts	Interface	Axis 2	No. of contacts	Interface	
• SHD8 SHD8 • S7 Press down mechanical interlock↓ • S2 Grab-type • SHD SHD8 with button • 8B SHD8 with button • S4 Lift-up mechanical interlock↑									
• 1 -Axis ↓ • 2 Cross gate ⇕ • 3 All-direction(x, Y-Axis) ※									
• Z Spring return • R Friction brake									
• 01 2 contacts • 04 8 contacts	• 02 4 contacts • 05 10 contacts	• 03 6 contacts							
• Voltage output DC24V - V1: -10V~0~+10V - V2: +10V~0~+10V - V3: -5V~0~+5V - V4: +5V~0~+5V - V5: 0~+10V - V6: 0~+5V	• Hall output DC5V - HV1: 0-2.5-5V - HV2: 0.5-2.5-4.5V - HV3: 1.0-2.5-4.0V - HV4: 1.25-2.5-3.75V	• CAN - CAN 2.0 - CAN J1939 - CAN OPEN	• Current output DC24V - I1: 4mA-12mA-20mA - I2: 20mA-4mA-20mA • P1: One directions output - P2: Two directions output						
• Z Spring return • R Friction brake									
• 01 2 contacts • 04 8 contacts	• 02 4 contacts • 05 10 contacts	• 03 6 contacts							
• Voltage output DC24V - V1: -10V~0~+10V - V2: +10V~0~+10V - V3: -5V~0~+5V - V4: +5V~0~+5V - V5: 0~+10V - V6: 0~+5V	• Hall output DC5V - HV1: 0-2.5-5V - HV2: 0.5-2.5-4.5V - HV3: 1.0-2.5-4.0V - HV4: 1.25-2.5-3.75V	• CAN - CAN 2.0 - CAN J1939 - CAN OPEN	• Current output DC24V - I1: 4mA-12mA-20mA - I2: 20mA-4mA-20mA • P1: One directions output - P2: Two directions output						
• See the drawing below for exsample 03(589)									

Dimensions



Contact Arrangement

The entity represents the switch closing



Grip

