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Features both spring-loaded return and options for uni- or bi-directional control.
Supports multidirectional inputs for versatile maneuvering.
Utilizes durable potentiometer or Hall effect sensors for precise angle detection.
Offers multiple signal outputs tailored to diverse applications.
Ideally suited for use in a wide range of heavy machinery including cranes, loaders, forklifts, excavators, and aerial work platforms.

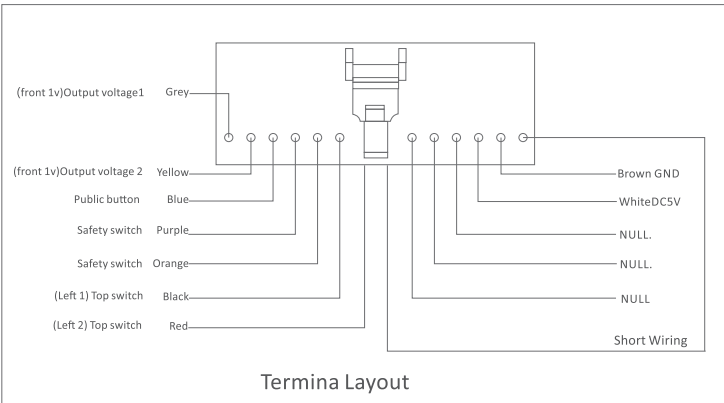
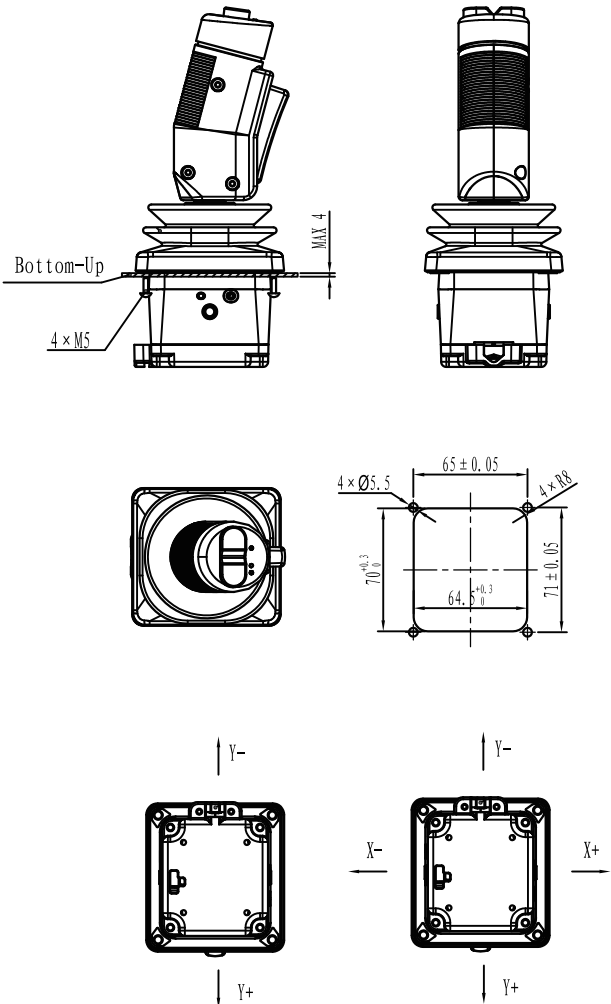
Technical Data

Operating Temperature: -20°C (-40°C) to +80°C
Handle Operating Force: ≤20N
Mechanical Life: 5 million cycles
Degree of Protection: IP64
EMS Interference Protection: 100V/m, 30MHz–1GHz, 80% sine wave modulation; complies with EN50082-2 (1995)
ESD Interference Protection: 4.8kV contact discharge, 15kV air discharge; meets IEC61000-4-2 standards



Selection	Palm Grips	Gate	Movement	Axis 1 Interface	Axis 2 Interface	Wiring
• KW: safety switch+ rocker switch • K: safety switch,without rocker switch • W: without safety switch,rocker switch						
• 1 -Axis ↑ • 2 Cross gate ↗ • 3 All-direction(x, Y-Axis) ✖						
• Z: Spring return						
• 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 HV5:1.15-2.5-3.85V	• Dual path DC5V DP1: 0-2.5-5V ⇌ 5-2.5-0V DP2: 0.5-2.5-4.5V ⇌ 4.5-2.5-0.5V DP3: 1.0-2.5-4.0V ⇌ 4.0-2.5-1.0V DP4: 1.25-2.5-3.75V ⇌ 3.75-2.5-1.25V DP5: 1.15-2.5-3.85V ⇌ 3.85-2.5-1.15V DP6: 1-2-4V ⇌ 4-2-1V					
• 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 HV5:1.15-2.5-3.85V	• Dual path DC5V DP1: 0-2.5-5V ⇌ 5-2.5-0V DP2: 0.5-2.5-4.5V ⇌ 4.5-2.5-0.5V DP3: 1.0-2.5-4.0V ⇌ 4.0-2.5-1.0V DP4: 1.25-2.5-3.75V ⇌ 3.75-2.5-1.25V DP5: 1.15-2.5-3.85V ⇌ 3.85-2.5-1.15V DP6: 1-2-4V ⇌ 4-2-1V					
• C: Connector • L: Direct outgoing line • X: Customize						

Dimensions



color	Function	color	Function
Redundant Hall Type		Hall Type	
Grey	Y-axis front output	Grey	Y-axis output
	Y-axis back output	Pink	X-axis output
Yellow	Y-axis back output	Blue	Public button
	Y-axis front output	Purple	Safe Switch
Blue	Public button	Orange	Safe Switch
Purple	Safe Switch	Black	(Left 1)Top Switch
Orange	Safe Switch	Red	(Left 2)Top Switch
Black	(Left 1)Top Switch	White	+5Vdc
Red	(Left 2)Top Switch	Brown	OV
Pink	X-axis front output+		
	X-axis back output-		
Green	X-axis front output+		
	X-axis back output-		
White	+5Vdc		
Brown	OV		

Grip

