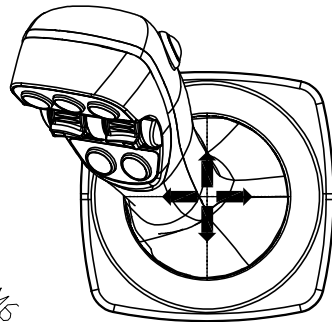
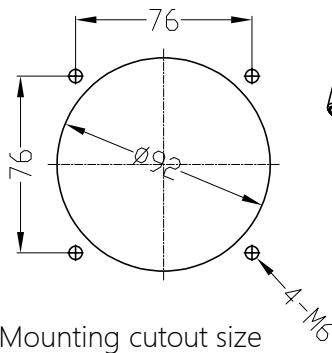
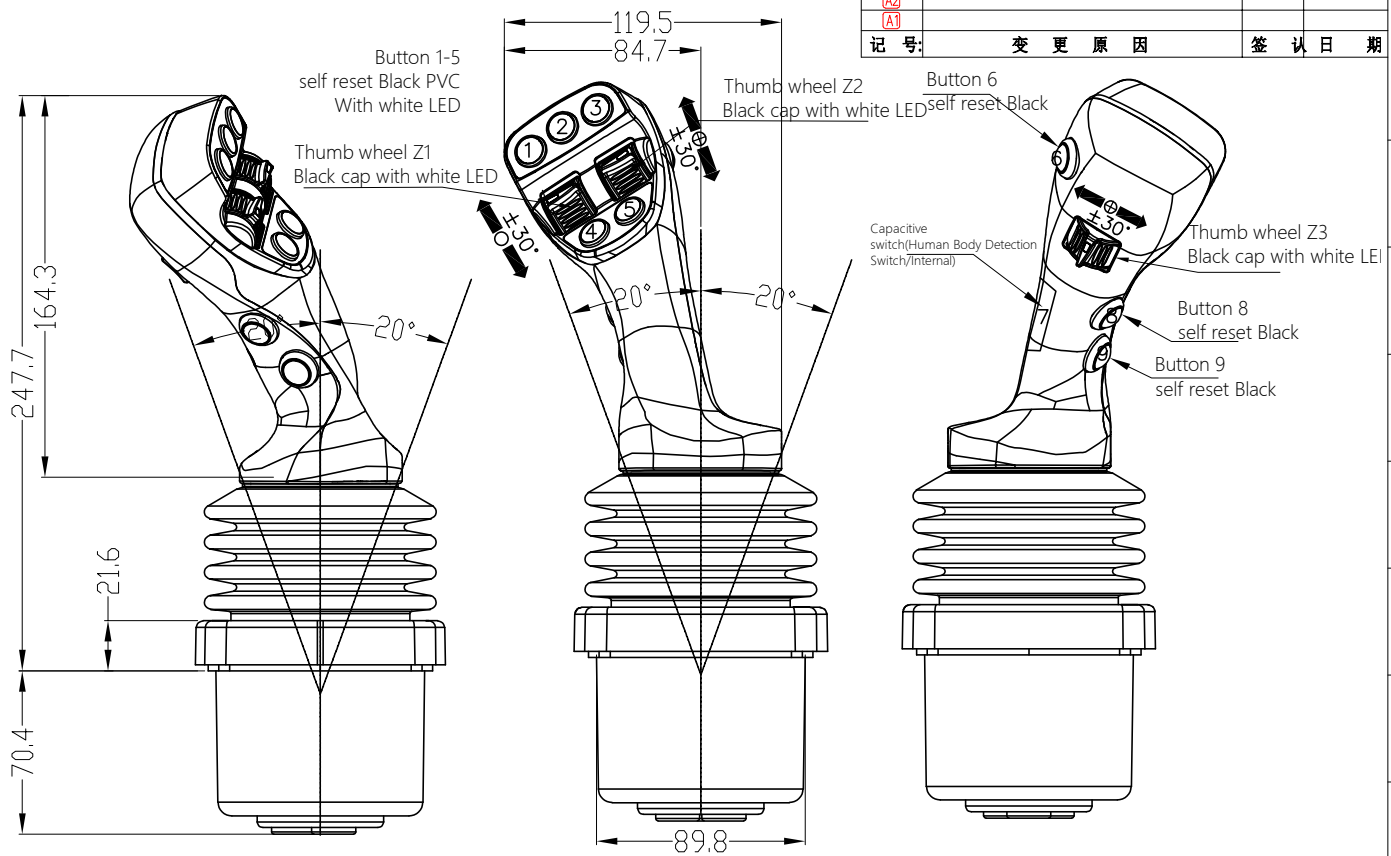
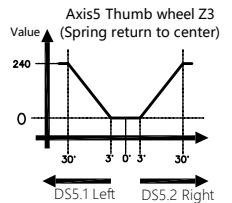
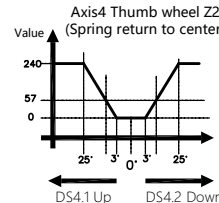
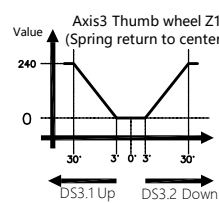
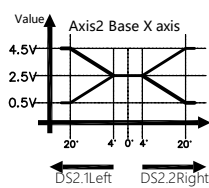
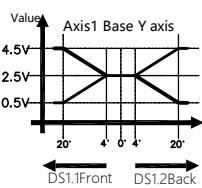
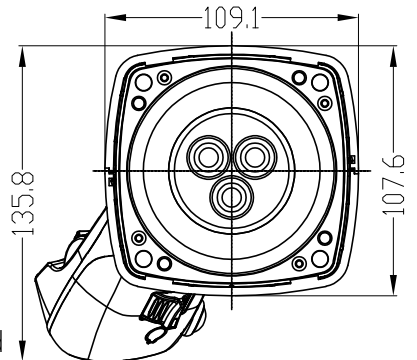




Square operation limited



Joystick CAN transmission: 250K / Extended Frame ID = 0CF0F111 / Transmission Cycle: 20MS

Byte	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0	Description
Byte0					Right	Left	Back	Front	Direction indication
Byte1	A7	A6	A5	A4	A3	A2	A1	A0	Axis1-Y Angle value 0-255,center=0
Byte2	A7	A6	A5	A4	A3	A2	A1	A0	Axis2-X Angle value 0-255,center=0
Byte3	Button9		Z3-	Z3+	Z2-	Z2+	Z1-	Z1+	Thumb wheel direction
Byte4	A7	A6	A5	A4	A3	A2	A1	A0	Axis3-Z1 Angle value 0-240,Center=0
Byte5	A7	A6	A5	A4	A3	A2	A1	A0	Axis4-Z2 Angle value 0-240,Center=0
Byte6	A7	A6	A5	A4	A3	A2	A1	A0	Axis5-Z3 Angle value 0-240,Center=0
Byte7	Button8	Capacitive switch	Button6	Button5	Button4	Button3	Button2	Button1	Digital input (switch)

Note: Direction indication: (Up+; Down-; Forward+, Back-, Left-, Right+; Left-) 1=Valid, 0=Invalid / Button: 1=pressed, 0=released

Joystick CAN reception (button backlight control): 250K / extended frame ID = 0CF0F211

Byte	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0	Description
Byte0			Button2 LED 00=Off/01=On/02=Pulsating				Button1 LED 00=Off/01=On/02=Pulsating	Button1/2 LED	
Byte1			Button4 LED 00=Off/01=On/02=Pulsating				Button3 LED 00=Off/01=On/02=Pulsating	Button3/4 LED	
Byte2			Button6 LED 00=Off/01=On/02=Pulsating				Button5 LED 00=Off/01=On/02=Pulsating	Button5/6 LED	
Byte3			Thumb wheel Z2 LED 00=Off/01=On/02=Pulsating				Thumb wheel Z1 LED 00=Off/01=On/02=Pulsating	Thumb wheel Z1/Z2 LED	
Byte4									
Byte5									
Byte6									
Byte7									

(1)Right handle, equipped with an induction enable switch function

(2) Base structure: Front and back springs return to the center

Left and right spring return to center

(3) Operating angle: XY axis of the base:±20°

Thumbwheel:±30°

(4) Power supply: DC24V (Min: 10V, Max: 38V)

(5) Operating current: Less than 200mA (@DC24V)

(6) Signal output: CAN

(7) Operating temperature: -30°C to +85°C

(8) Storage temperature: -40°C to +85°C

(9) Protection level: IP65 above panel

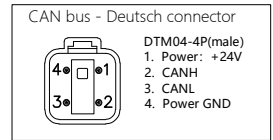
(10) EMI/RFI : CE/FCC

(11) Vibration: 25g, 30Hz, 500 cycles, 3 directions, IEC 60068-2-29 test Eb

(12) Wiring harness: Length 40CM

<Production, Protocol=0x20 New Parameter Setting Method >

The dead zone of the XY-axis sensor should be small, limited only by mechanical clearance



Model No.: MKF-JS60B-V1-R-BCP-2Q-W-CAN

Mate Technology Shenzhen Limited
www.matend.com

Draw:	4	2026-01-23	Scale:	1:1	View:	
Design:	4	2026-01-23	Stage		Unit:	mm
Audit:	2	2026-01-23				DE-SKB
Approve:	1	2026-01-23	Page	1	of	1