Heavy duty joystick J6 base

Space-saving, top mounted

Due to its compact design, the Heavy duty J6 joystick is ideally suited for use in control panels and armrests in the industrial truck and farm machinery industries. An IP67 protection class means it can also be used in adverse environmental conditions.

Technical specifications

- High reliability and long service life thanks to contactless Hall-effect and reed technology
- Analogue output signal (current/voltage, also redundant) or switching output possible
- IP67 protection class of electronics, ideal for harsh environmental conditions
- Temperature range -40°C to +85°C
- Deflection ±20° or ±25°
- Single or multi axis
- CAN-bus connection (CANopen / SAE J1939) available
- In spite of its compact design, the Heavy duty J6 joystick can withstand very high loads (750 N for the x- and y-axes, 500 N for the z-axis)
- Straight handle with up to 3 push buttons or ergonomic joystick grip for left or right handed operation

Technical drawing

IMAGE 1/6

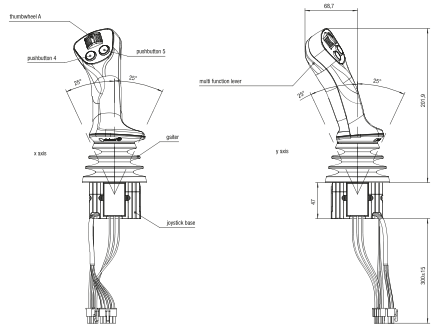


IMAGE 2/6

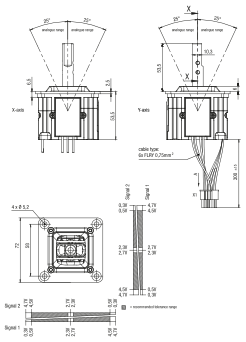


IMAGE 3/6

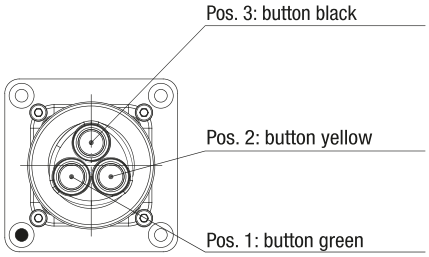
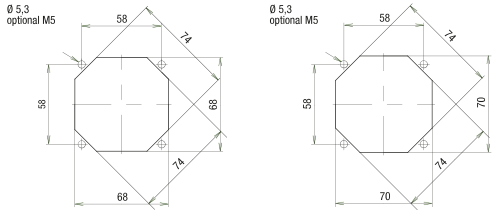


IMAGE 4/6



mounting hole analogue (J6A...)

mounting hole discrete output (J6D...)

IMAGE 5/6

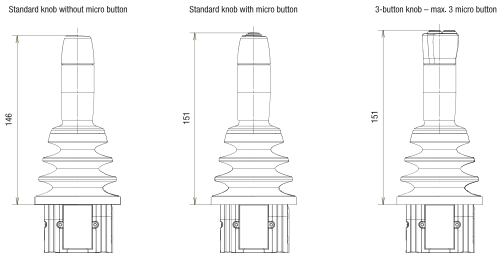
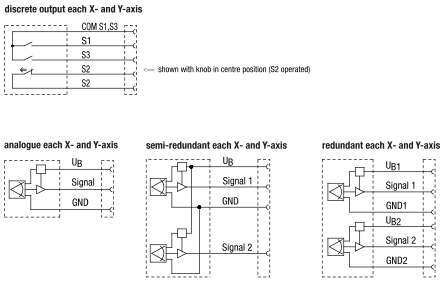


IMAGE 6/6



Electrical data

Attribute	J6A1...	J6A6...	J6A7...	J6C6...CANopen	J6C6...SAE_J1939	J6D8...
Max. switching voltage	-					48 V DC
Max. switching current	-					0.3 A
Max. switching power	-					10 W
Max. switching power	-					10 VA
Contact form	-					NO
Output signal min.	-	0.5 V DC		-		
Output signal max.	-	4.5 V DC		-		
Output signal min.	4 mA	-				
Output signal max.	20 mA	-				
Output signal	analogue			-		
Output signal - centre position/zero position	-	2.5 V DC		-		
Output signal - centre position/zero position	12 mA	-				
Operating voltage min.	10 V DC	4.5 V DC	10 V DC	9 V DC		-
Operating voltage max.	30 V DC	5.5 V DC	30 V DC	36 V DC		-
Current consumption	bei 12V max. 18 mA	max. 15 mA	bei 12V max. 15 mA	< 120 mA		-
Load resistance min.	-	20000 Ohm		-		
Load resistance at 10V max.	250 Ohm	-				
Load resistance al 30V max.	1250 Ohm	-				
Technology	Hall					Reed
Protocol	-			CANopen	J1939	-
Transmitting cycle	-			100 ms		-
Baud rate	-			250 kBit/s		-
Bus terminating resistor	-			no		-

Mechanical data

Attribute	J6A1...	J6A6...	J6A7...	J6C6...CANopen	J6C6...SAE_J1939	J6D8...
Max. lever load with specified lever length	750 N bei 150 mm N					
Deflection	± 25 °					
Service life, mechanical (Cycles)	2000000					

Environmental conditions

Attribute	J6A1...	J6A6...	J6A7...	J6C6...CANopen	J6C6...SAE_J1939	J6D8...
Protection class, electronic	IP67 DIN EN 60529					
Operating temperature min.	-25 °C					
Max. operating temperature	85 °C					
Min. storage temperature	-40 °C					
Max. storage temperature	85 °C					

Installation

Attribute	J6A1...	J6A6...	J6A7...	J6C6...CANopen	J6C6...SAE_J1939	J6D8...
Installation	from above					
Mounting type	screwed					

Connection

Attribute	J6A1...	J6A6...	J6A7...	J6C6...CANopen	J6C6...SAE_J1939	J6D8...
Connector type	Mini-Fit Jr.					
Cable type	FLRY					
Cable length	0.3 m					