



DATA SHEET

JHLN Joystick

SINGLE-AXIS WITH MULTIPLE HANDLES AND OUTPUTS

Compact sizing meets better functionality.

The JHLN joystick is a narrower, bottom-mount version of OTTO's JHL joystick with the same range of output options available. The single-axis, Hall effect JHLN joystick offers either friction hold or spring-return-to-center actuation.

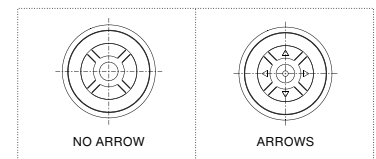
Choose from five handle styles—tall or short, with or without a pushbutton or switch module on top of the handle.

FEATURES

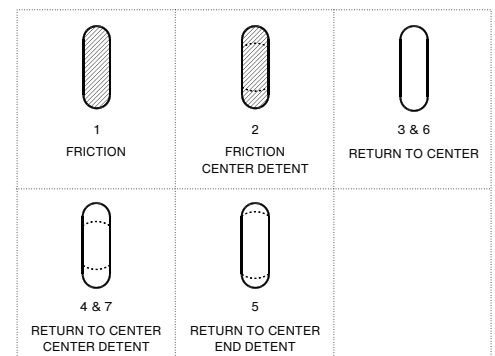
- + Friction hold or smooth spring-to-center actuation
- + Bottom mount with narrow profile
- + Five handle options:
 - Short Handle
 - Short Handle with a pushbutton
 - Tall Handle
 - Tall Handle with a pushbutton
 - Tall Handle with a 4- or 5-position TC switch module
(for other TC Switch module options, please contact factory)
- + Outputs:
 - Analog single/redundant output
 - CANOpen
 - J1939
 - J1939 with PLd for functional safety
 - PWM
- + Electronics sealed to IP6K8S
- + Excellent EMI/RFI immunity
- + RoHS compliant



TC BUTTON STYLES

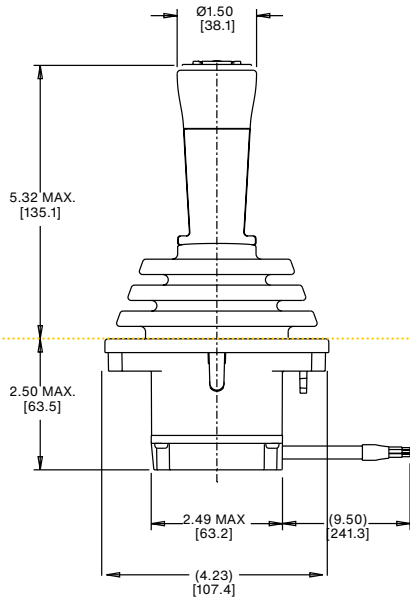


ACTUATION OPTION ICONS



PROUDLY
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IN THE U.S.A.

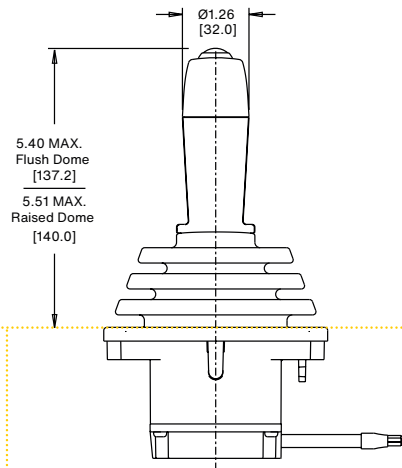
TALL HANDLE WITH TC SWITCH



SAME ON ALL MODELS

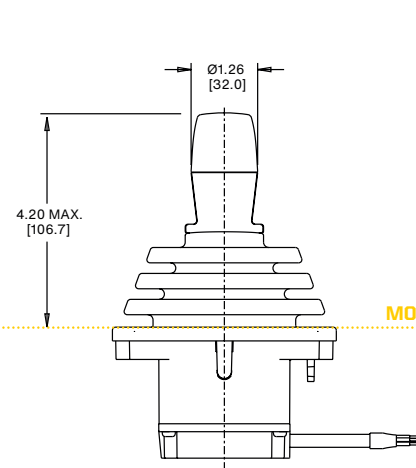
TALL HANDLE WITH PUSHBUTTON

(Also available - Tall Handle without Pushbutton)



SHORT HANDLE WITHOUT PUSHBUTTON

(Also available - Short Handle with Pushbutton)



MOUNTING PLANE

JHLN Part Number Code

JHLN -	X	X	X	X	X	X
Handle Option	Actuation Option	Joystick Output		Operate Force	Switch Option	Button Style
1. Short Handle	1. Friction, 25° △	Output 1 △	Output 2 △	F. Friction △	N. None	N. None
2. Tall Handle	2. Friction with △	AA 2.5+/-2.0 VDC	NONE	1. Low	A. P9 - Flush Dome	1. Red
3. Tall Handle with TC Switch	3. Return to Center, 25°	BB 2.5+/-2.0 VDC	2.5+/-2.0 VDC	2. Medium	B. P9 - Raised Dome	2. Black
	4. Return to Center with Center Detent, 25°	CC 2.5+/-2.0 VDC	2.5+/-2.0 VDC	3. High	4. 4 Position △△	3. Orange
	5. Return to Center with End Detent, 25°	DD 2.5+/-1.5 VDC	NONE		5. 5 Position △	4. Yellow
	6. Return to Center, 20°	EE 2.5+/-1.5 VDC	2.5+/-1.5 VDC			5. Green
	7. Return to Center with Center Detent, 20°	FF 2.5+/-1.5 VDC	2.5+/-1.5 VDC			6. Blue
		GG 0.5-4.5 VDC	0.5-4.5 VDC			7. Violet
		HH 1-4 VDC	1-4 VDC			8. Gray
		JJ CANbus J1939	NONE			9. White
		KK CANopen	NONE			A. No Arrows, △
		LL CANbus J1939, Deutsch	NONE			No Backlight
		MM CANopen, Deutsch	NONE			B. Arrows, △
						No Backlight
						C. Arrows with △△
						Backlight

1. Drawing to be interpreted in accordance with the current revision of ASME Y14.5.

2. This Part/Product is to be manufactured with the latest applicable regulations of EC Directives for the restriction of the use of hazardous substances in electrical and electronic equipment (ROHS), waste electrical and electronic equipment (WEEE) and registration, evaluation, authorization and restriction of chemicals (REACH).

3. Unless otherwise specified, all dimensions are in inch (Metric). In the event of a conflict, the inch normal value and tolerance will take precedence.

△ LABEL TO INCLUDE:
Part Number
"OTTO 21649"
Date Code (YYWW)

* For CANbus J1939 with PLd or PWM options, please contact the factory for details and pricing.

△5. Outputs are from the center to the full travel position in each direction. Options "AA", "BB", "CC", "DD", "EE", "FF" provide increased voltage in +Y; and decreasing voltage in -Y direction from one output. Options "GG" and "HH" provide increasing voltages in all directions (+Y, -Y) from 2 outputs.

△6. Options: "BB" and "EE" provide redundant output 2 which duplicates Output 1. Options "CC" and "FF" provide redundant output 2 which is inverse of output 1.

△7. Friction option only available with actuation option 1 and 2.

△8. 4 position switch option only available in button style A. Contact factory for other options.

△9. External resistor required for LED circuit when directly wired.

△10. Available for TC Switch option only.