

JMF Heavy Duty Multi-Axis Potentiometric Joystick (joystick base only)

Features

The **JMF** potentiometric joystick controller has been designed for use in Mobile and Industrial Field application. The potentiometer in use, available with 3 or 4-pins configuration, grants precision and a long working life. When coupled with an **M** range of ergonomic multi-function handles, up to 5 proportional axes and 9 on-off push buttons can be integrated in the same joystick. Power directional switches are available.

Mechanical Specifications

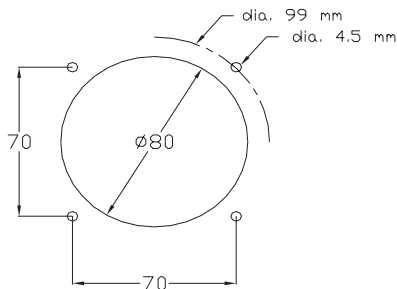
- . Lever deflection angle: +/-25° +/- 1°
- . Electrical angle: +/-25° +/- 1°
- . Operating temperature range: -25°C / + 80°C
- . Protection class (above panel): up to IP 67, depending on grip
- . Life: 3 million cycles

Potentiometer & Switches Options (Y-Y and X-X Axis)

Reference codes		
Output signal	S=50% Vin	S=90% Vin
3-pin Pot	A	D
3-pin Pot & Bi-Dir. Switches	C	F (Std)

Reference codes		
Output signal	S=40% Vin	S=100% Vin
4-pin Pot	G	L
4-pin Pot & Bi-Dir. Switches	I	N (Std)

Panel Cut-Out



Available Joystick Movements

- Option **L1S** Single axis control / Uni-Directional
 - Option **L2S** Single axis control / Bi-directional
 - Option **L4C** Cross axis control / Bi-directional
 - Option **L4D** Multi-axis control / Bi-directional
- * friction lock option available for L1S and L2S



*Shown with IC grip

Ordering Information : see page 17

Available grips : see page 34

Complete joystick examples : see page 22

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Electrical Specifications

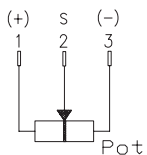
Directional Switches (electromechanical type)

. Contacts	Silver Plated
. Max. operating input voltage	48 V or +/-24V
. Max. operating current	3 A / inductive
. Neutral position switch threshold angle:	+4°
. Pot. connector type:	0= none (solder type) 1= AMP Modu I / 4 poles
. Protection class:	IP55 (specials available on request)

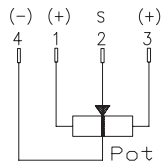
Rotary potentiometer

. Electrical power rating:	0.25 W @ 25°C
. Ohmic resistance: / A=50% of Vin (3-pins version) / D=90% of Vin	1 kOhm +/- 20% 5 kOhm +/-20%
. Ohmic resistance: / G=40% of Vin (4-pins version) / L=100% of Vin	10 kohm +/- 20% 5 Kohm +/-20%
. Max. operating input voltage (Vin):	48 V or +/-24V
. Min. load impedance on pin 2 (Signal)	50 kOhm
. Max. operating current on pin 2	1 mA
. Output voltage	See GRAPHS
. Linearity (resistive track)	2% or better
. Protection class:	IP 67

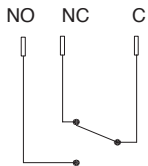
Electrical Connections (for solder type connector)



3-pins potentiometer

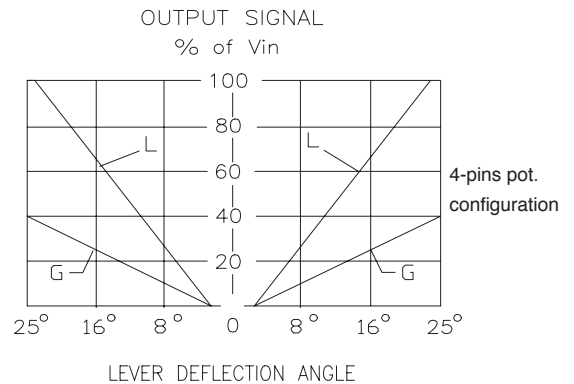
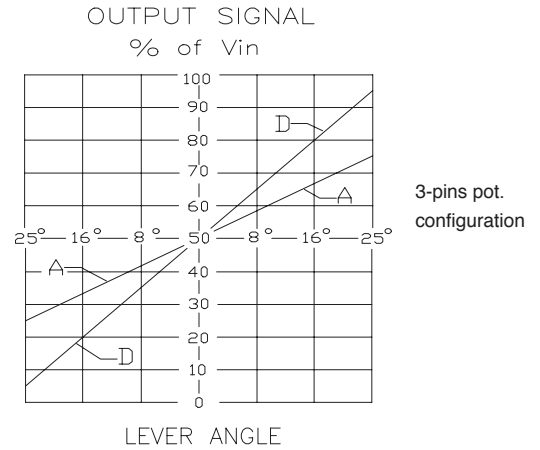


4-pins potentiometer



Directional switches
(see pinout on switch)

Output Signal Control Characteristics

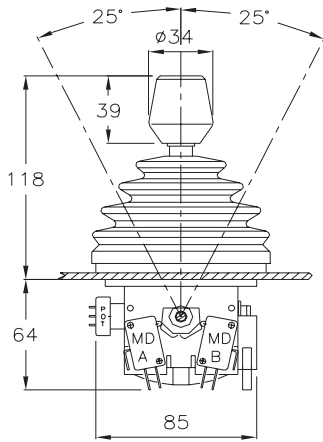


Ordering Information : see page 17

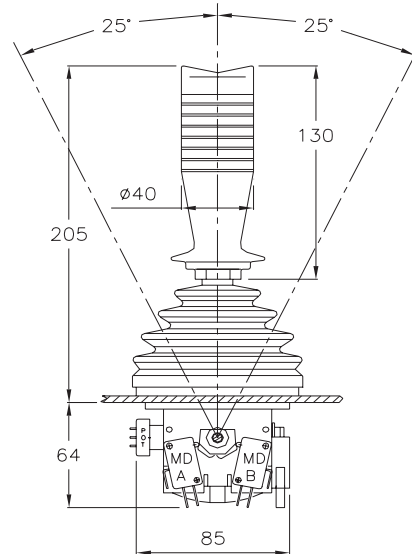
Available grips : see page 34

Complete joystick examples : see next page

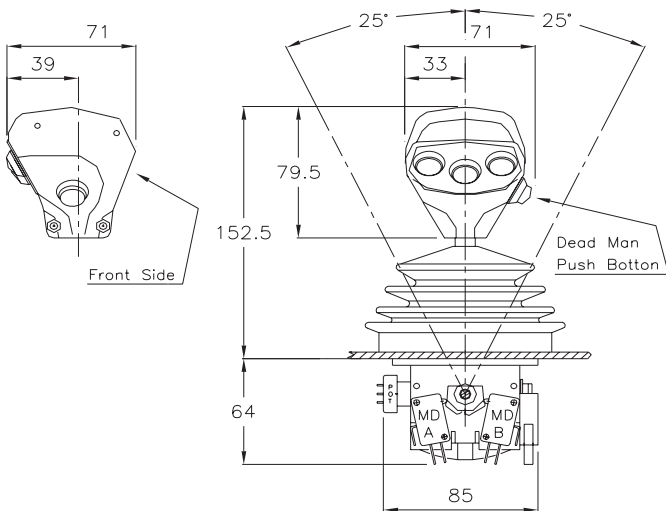
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JMF joystick with grips - configuration examples with overall dimensions


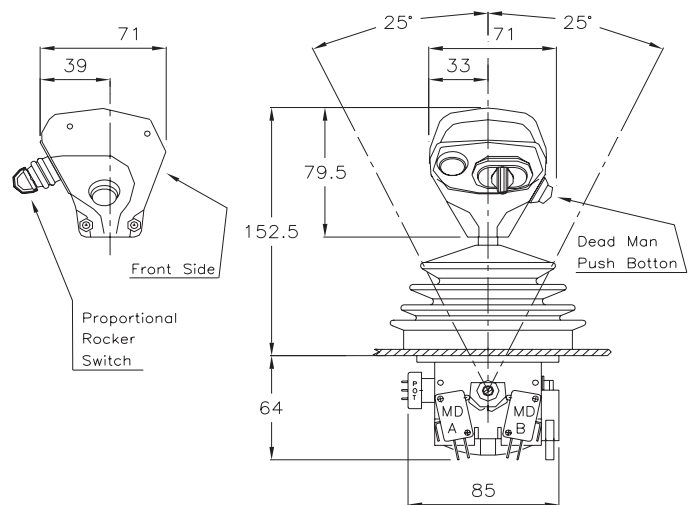
JMF base with IL handle.
Complete code : **JMF-L4C/NN-IL 0000**



JMF base with IC handle.
Complete code : **JMF-L4C/NN-IC 0200**



JMF base with IE type handle.
Complete code : **JMF-L4C/NN-IE A3P9 0000**



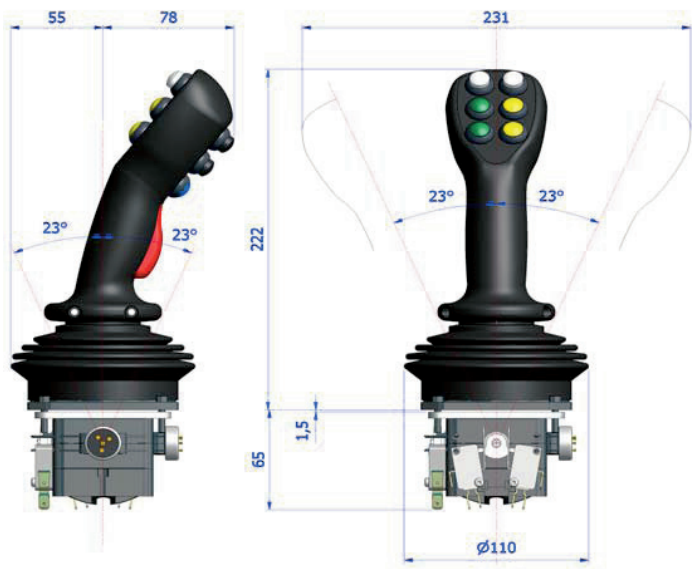
JMF base with IE type handle.
Complete code : **JMF-L4C/NN-IE A1P9 1PRS**

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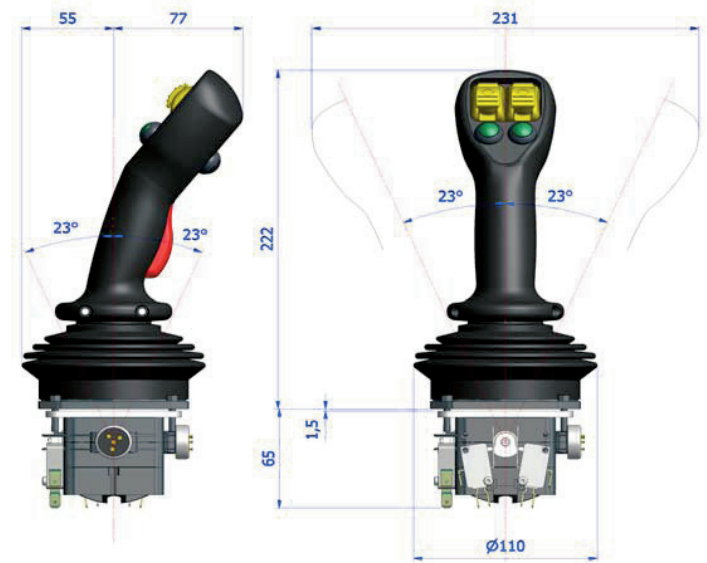
JMF

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JMF joystick with grips - configuration examples with overall dimensions



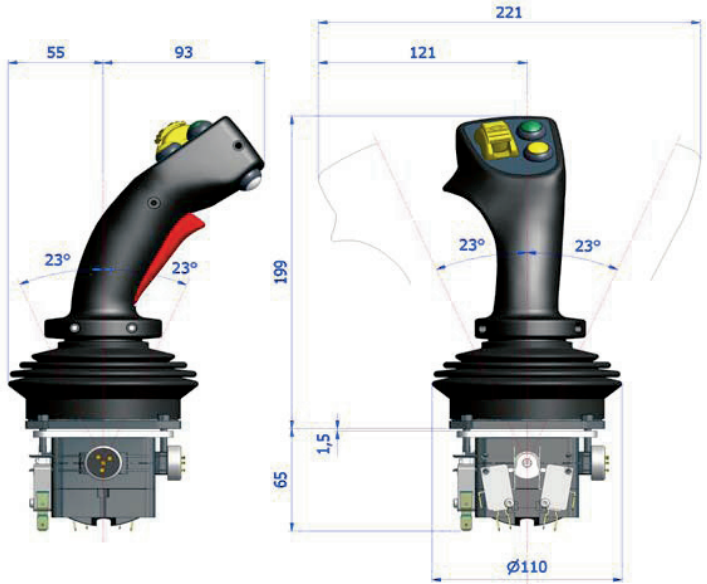
JMF base with MS type handle.
Complete code: **JMF-L4C/NN-MS A6P9 R3P9**



JMF base with MS type handle.
Complete code : **JMF-L4C/NN-MS A2P9 2FPR R1P9**



JMF base with MG type handle.
Complete code : **JMF-L4C/NN-MG A4P9 R1P9**



JMF base with MG type handle.
Complete code : **JMF-L4C/NN-MG A2P9 1FPR R1P9**

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