JMF HEAVY DUTY MULTI-AXIS POTENTIOMETRIC JOYSTICK (JOYSTICK BASE ONLY)

FEATURES

The JMF potentiometeric 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:	±22° ±1°
Electrical angle:	±22° ±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 co	des
Output signal	S= 50% Vin	S= 90% Vin
3-pins pot	A D	
3-pins pot & bidirectional switchs	C F (Std)	

	Reference co	des
Output signal	S= 40% Vin	S=100% Vin
4-pins pot	GL	
4-pins pot & bidirectional switchs	I N (Std)	

PANEL CUT-OUT AND MOUNTING





AVAILABLE JOYSTICK MOVEMENTS

*Option L1S	Single axis control / Unidirectional
*Option L2S	Single axis control / Bidirectional
Option L4C	Cross axis control / Bidirectional
Option L4D	Multi axis control / Bidirectional

* friction lock option available for L1S and L2S



Shown with IC grip

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.



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HEAVY DUTY MULTI-AXIS POTENTIOMETRIC JOYSTICK (JOYSTICK BASE ONLY) JMF

ELECTRICAL SPECIFICATIONS

Directional switches (electromechanical type)		
Contacts:	silver plated	
Max. operating input voltage:	125/250 Vac	
Max. operating current:	16 A (5 A on request)*	
Pot. connector type:	0 = None (solder type)	
	1 = AMP Modu I/4 poles	
Neutral pos. switch threashold angle:	±10° (±5° on request)*	
Protection class:	IP 55	
	(specials available on request)	

Rotary potentiometer	
Electrical power rating:	0.25 W @ 25°C
Ohmic resistance: / A = 50% of Vin	1 kΩ ±20%
(3-pins version) / D = 90% of Vin	5 kΩ ±20%
Ohmic resistance: / G = 40% of Vin	10 kΩ ±20%
(4-pins version) / L = 100% of Vin	5 kΩ ±20%
Max. operating input voltage (Vin):	48 V or ±24 V
Min. load impedance on pin 2 (signal):	50 kΩ
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

Pot

NO

ſ

NC

S

2

Π

3-pins potentiometer

(-)

Δ

С

(+)

S

2

4-pins potentiometer

(+)

3

Π

Pot



OUTPUT SIGNAL CONTROL CHARACTERISTICS

LEVER ANGLE

0





JMF ORDERING INFORMATION: see page JK20

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Directional switches (see pinout on switch)

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JMF joystick with grips - configuration examples with overall dimensions

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JMF HEAVY DUTY MULTI-AXIS POTENTIOMETRIC JOYSTICK

JMF joystick with grips - configuration examples with overall dimensions

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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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JMF HEAVY DUTY MULTI-AXIS POTENTIOMETRIC JOYSTICK



HL joystick with grips - configuration examples with overall dimensions

JMF base with HL type handle Complete code: JMF-L4C/NN-HL-04P9-2P9/RDFF

JMF base with HL type handle Complete code: JMF-L4C/NN-HL-04P9-2P9/RDFF







JMF base with HR type handle Complete code: JMF-L4C/NN-HR-0FPR-2P9/R000

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