

M series

Miniature resistive joysticks

Distinctive features and specifications



- World's #1 selling joystick for CCTV applications
- Potentiometric sensing
- One, two or three axis
- Low profile design with 17 handle options
- RoHS

MECHANICAL (FOR X AND Y AXIS)

- Break Out Force: 0.7N (0.16lbf)
- Operating Force: 1.3N (0.29lbf)
- Maximum Applied Force: 100N (22.48lbf)
- Mechanical Angle of Movement: 56°
- Expected Life: See potentiometer options
- Mass/weight: Varies
- Package Size (mm) (L x W x H) or (Dia x H): Varies
- Lever Action (Centering): Spring or Friction

MECHANICAL (FOR Z AXIS)

- Break Out Torque: 0.022N·m (0.19lbf-in)
- Operating Torque: 0.040N·m (0.35lbf-in)
- Maximum Allowable Torque: 0.049N·m (0.43lbf-in)
- Mechanical Angle: 90°
- Handle Action: Spring

ENVIRONMENTAL

- Operating Temperature: -25°C to 70°C (-13°F to 158°F)
- Storage Temperature: -40°C to 70°C (-40°F to 158°F)

POTENTIOMETER OPTIONS

Potentiometer	P	M	R
Electrical Element	Conductive Plastic	Conductive Plastic	Conductive Plastic
Track Resistance	5K	5K	5K
Linearity	±1.0%	±5.0%	±1.0%
Track Operating Angle	220°	56°	50°
CRV	±1.5%	±1.5%	±1.0%
Power Dissipation	0.25W@40°C	0.5W@70°C	1W
Rotational Life	1,000,000	1,000,000	10,000,000

CENTERING OPTIONS

- **SPRING CENTERING:** The joystick returns to center when the handle is released.
- **TORQUE SET:** Torque set provides absolute positioning with uniform friction applied to "X" and "Y" axis.

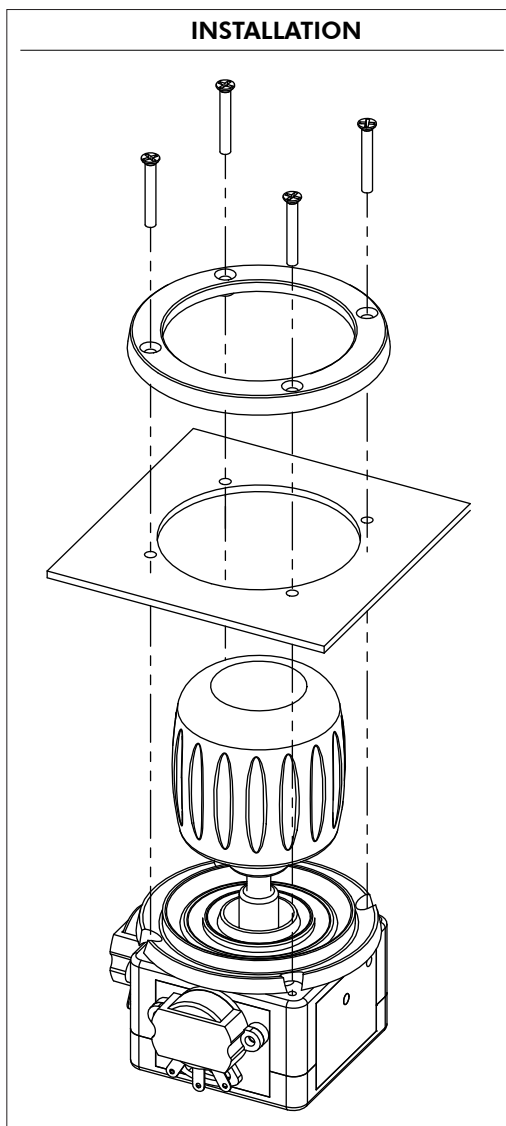
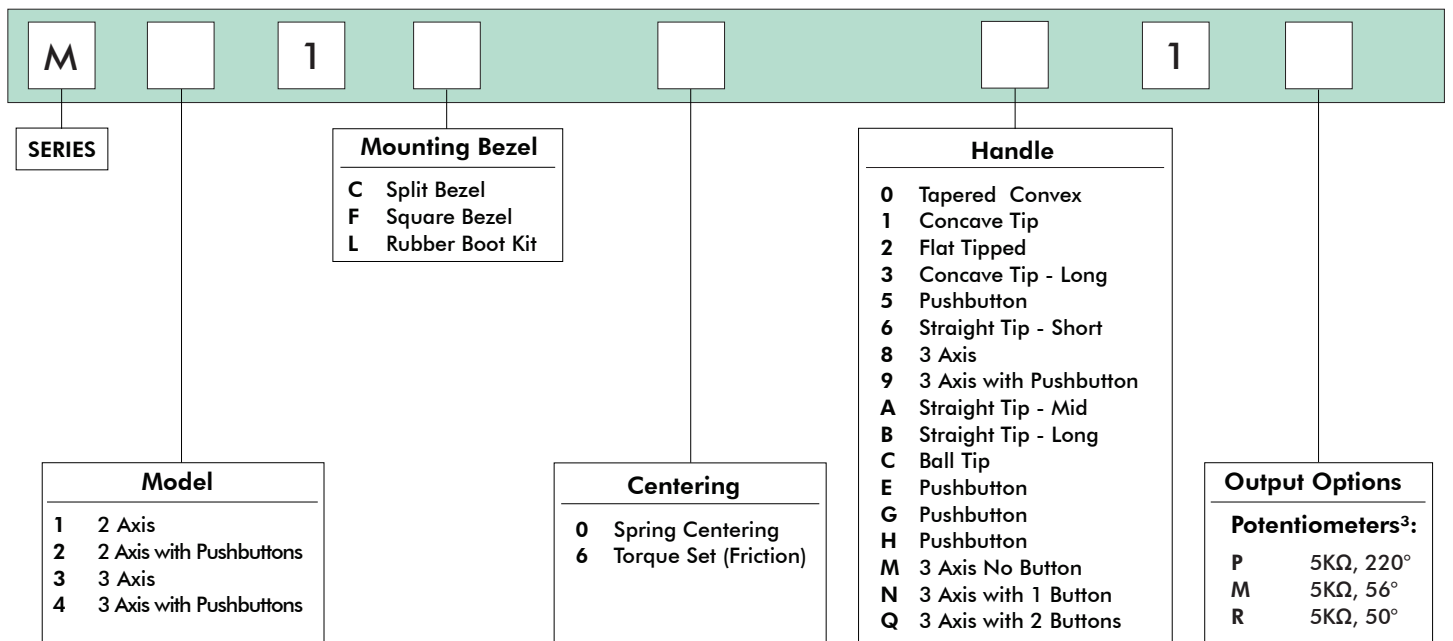
- NOTES:
- All values are nominal.
 - Specifications are subject to the joystick configuration.
Contact Technical Support for the performance of your specific configuration.
 - The M Series is intended for internal applications.

Note: The company reserves the right to change specifications without notice.

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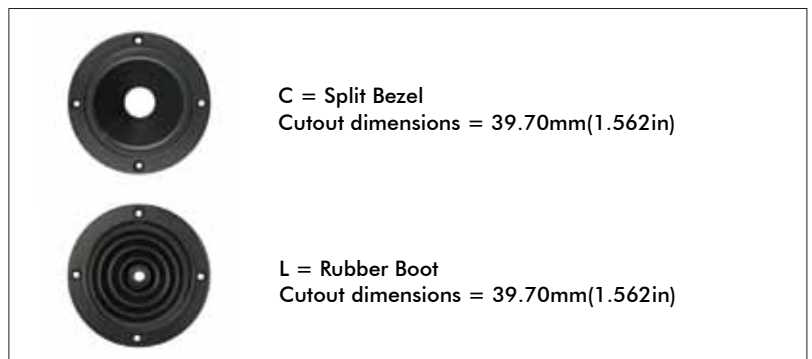
Miniature resistive joysticks

Overview

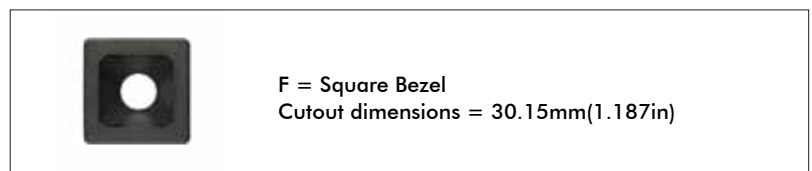


NOTES:

1. Front Mounting Bezels (FM)



2. Rear mounting bezels (RM)



3. Potentiometer specifications are located on the previous page.



Mounting accessories.

Standard hardware includes:

C= Ring, cup, and 4 black Phl screws 2-56x1/2in

L= Ring and 4 black Phl screws 2-56x1/2in

F= Square bezel, 4 screws 2-56x1/2in Phl, and 4 screws 2-56x1/4in Phl

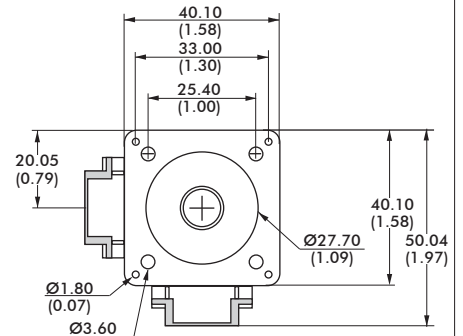
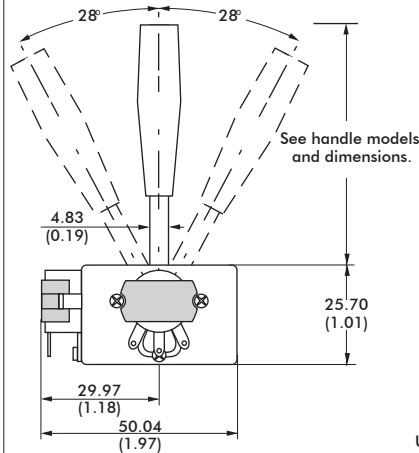
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Overview

2 AXIS WITH OPTION A HANDLE



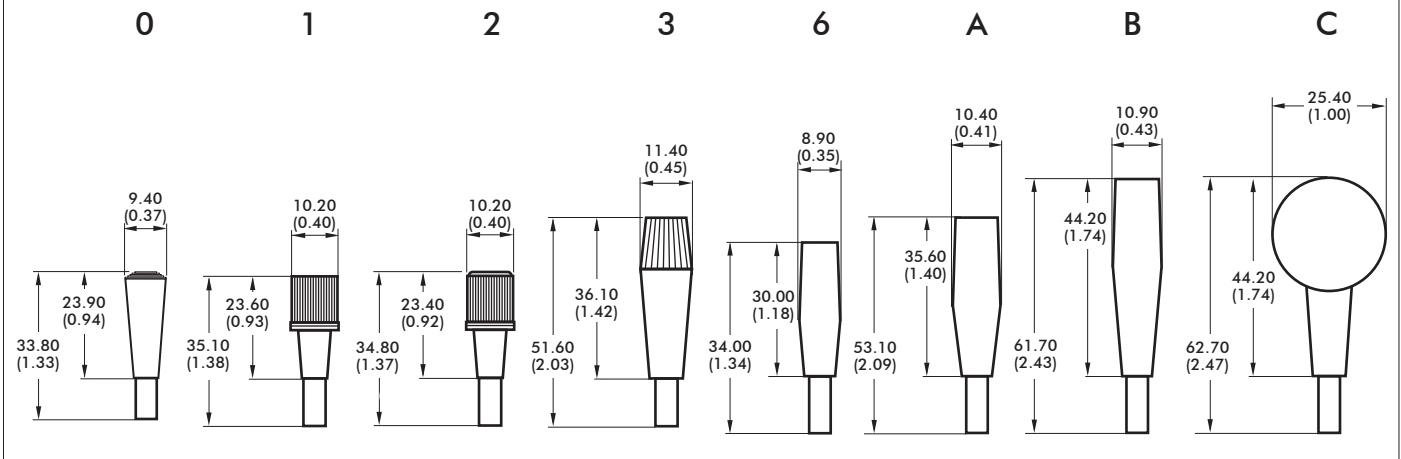
Used for Rear Mount "Square bezel"

NOTES:

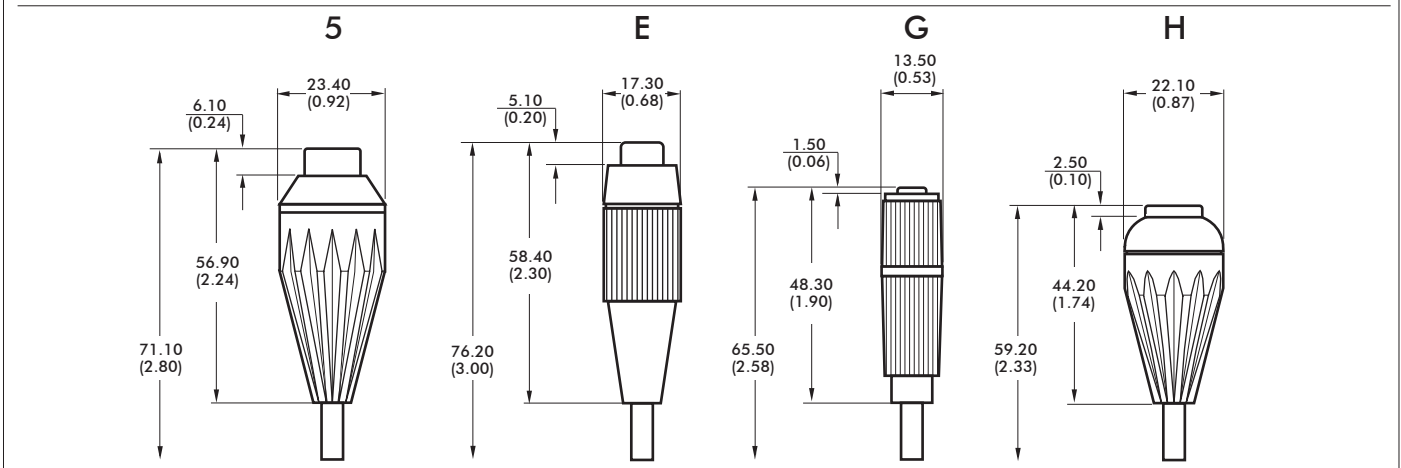
1. Mechanical dimensions represent a joystick with the largest potentiometer option.
2. Potentiometer size will vary according to selected option.

HANDLES

2 AXIS



2 AXIS WITH PUSHBUTTON¹



NOTES:

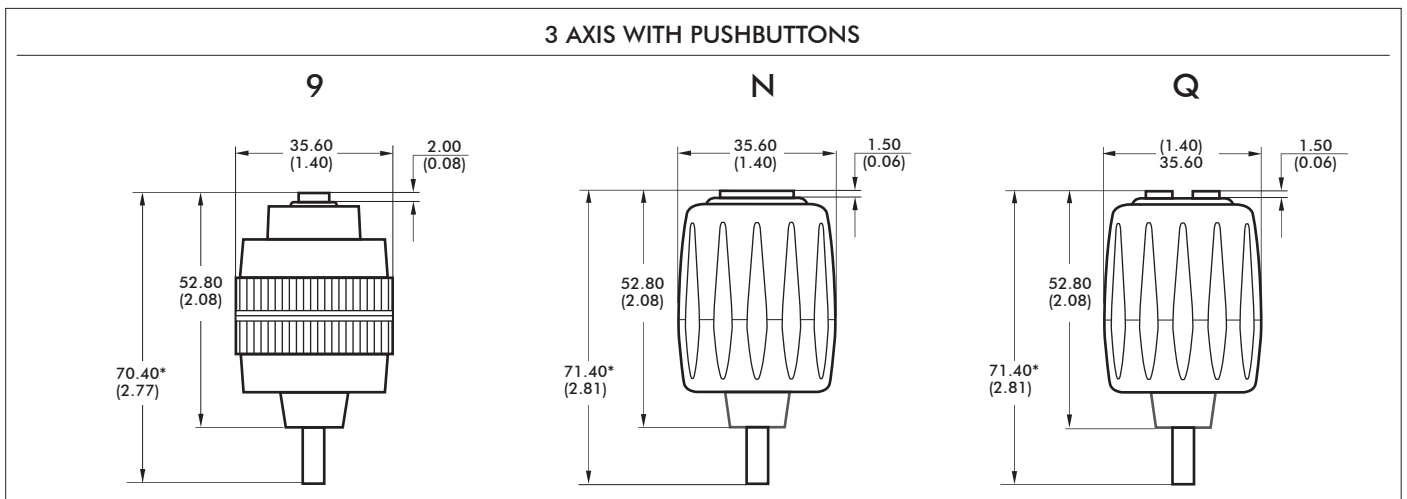
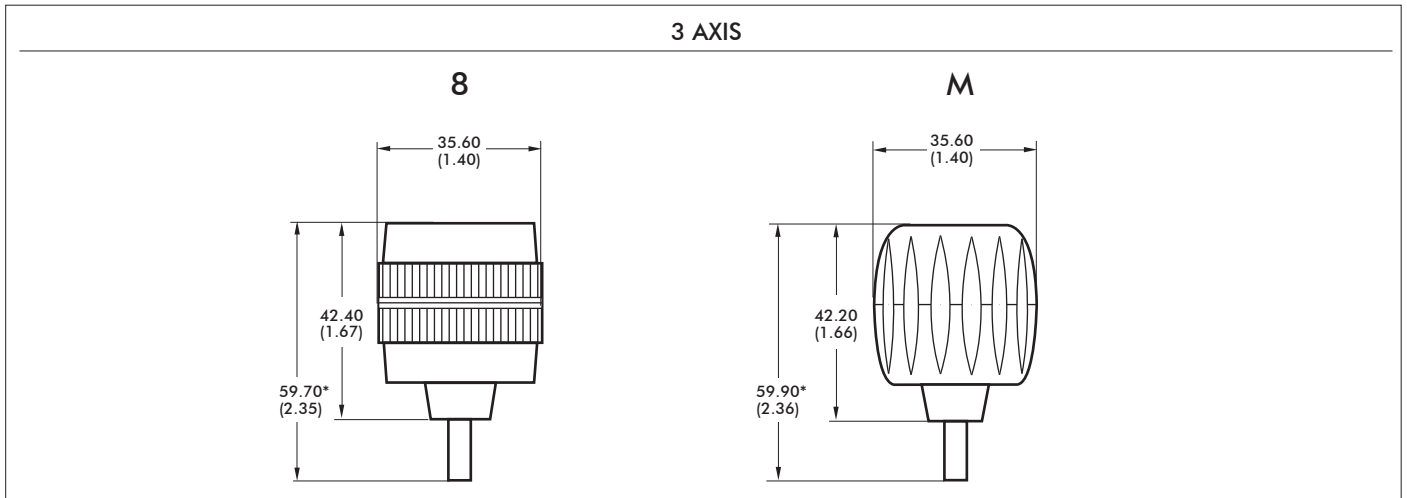
1. Pushbuttons are not sealed. Joysticks are intended for internal applications only.
2. Dimensions are in mm/(inch).

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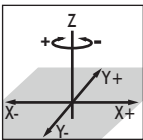
Miniature resistive joysticks

Overview



NOTES:

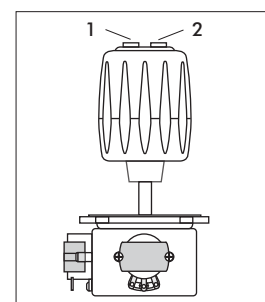
1. Dimensions are in mm/(inch).
2. Pushbuttons are not sealed. Joysticks are intended for internal applications only.
3. Axis orientation:


4. Wiring information:
 - Cables are provided for pushbuttons and the Z axis.
 - Cables are not supplied for the potentiometers (axis X and Y).

DEFAULT WIRE COLOR CODE*		
COLOR	FUNCTION	AWG
2 OR 3 AXIS JOYSTICK WITH 1 PUSHBUTTON - OPTIONS 5,E,G,H,9,N		
ORANGE	Switch 1	28
ORANGE	Switch Common	
3 AXIS JOYSTICK WITH 2 PUSHBUTTONS - Option Q**		
ORANGE	Switch 1	28
BROWN	Switch 2	
GREEN	Switch Common	
Z AXIS IN A 3 AXIS JOYSTICK - OPTIONS 8,9,M,N,Q		
RED	Supply	28
WHITE	Signal	
BLUE	Return	

NOTES: * Wires for the Z axis and for the pushbuttons are 292mm (11.5in) and stripped.

** Handle "Q" pushbuttons are shown in the following drawing:



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- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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