MO **ULTRA-COMPACT** JOYSTICK CONTROLLER

Construction:

The TYPE MO Joystick Controller is ideally suited for use in Remote Control Systems for industrial use.

The glass-filled Zytel housing, non-ferrous components and sealed construction make this device suitable for corrosive and hostile environments.

1 & 2 Axis Control is available as well a handle activated auxiliary functions. Separate and simultaneous switching action is achieved with standard and cross gate patterns.

Application:

These devices are commonly utilized to control Material Handling and Processing machinery used in Metals, Mining, Marine, Construction and Forestry Industries where durability and resistance to corrosion is paramount.

Features and Options:

- Ultra-compact and rugged construction.
- Environmentally sealed mounting and corrosion resistant components.
- High life compression style spring return.
- Single and dual axis operation.
- Standard and custom switching patterns.
- Detented steps up to 5-0-5 positions.
- Standard and custom potentiometers each axis.
- Push-button actuated deadman functions.





MO ORDERING INFORMATION

Basic Assembly:	2.30" Shaft length, 1 piece handle, gasket and 2.50" diameter boot supplied standard, 2" diameter available upon request for limited travel.
Drive Arrangement:	Single Axis (E), Dual Axis (V)
Handle:	Reference Handle Section for a selection of custom handles and handle operated deadman functions.
Contacts:	A 2 pole modular contact block or micro-switches are available in silver or flashed over gold contact tips. Gold contacts are designated by a prefix "K" e.g. KMO. Maximum number of Contacts in each axis = 8 (6 with potentiometer).
Potentiometers:	0.5 Watt 5 million operations standard. Specify resistance and type required (Consult factory for custom requirements)
Electronics:	See PFC or PFC/CR (Proportional Feathering Control electronics) for ordering information.

MO Technical Data

Mechanical:

- **Operating Temperature:** -25° to +70°C
- **Detented Positions:** 0° neutral and 1-0-1 – 5-0-5 steps
- Mechanical Life: 3-5 million cycles each direction.
- Gear Ratio: 5:1
- Handle Travel: Cam rotation \pm 28° Potentiometer Rotation ±140°
- **Potentiometer Values:** 3 Terminal: 5K Center Tap: 2 x 5K

Consult factory for low voltage gold contacts

Electrical:

- Micro-switch Rating: (4), Single Pole Double Throw • micro-switch contacts per axis.
- Terminals: .020 x .110 QC
- Terminals: Solder
- Wire Size: 18 AWG
- **Rating AC:** . 5 Amps 125 VAC 2 Amps 250 VAC
- ٠ **Contact Block Rating:** 2 Amps @ 250VAC Gold: 4mA 30VDC



