

# ROMEO

## JOYSTICK

STEPPED OR STEPLESS

Romeo is a joystick designed to control complex machine tools used in heavy duty and aggressive environments.

### DESIGN

Materials, technical solutions and size and shape of critical components ensure mechanical strength and life, and special attention is paid to design, ergonomics, sensitivity and accuracy of operation.

### OPTIONS

Three different versions of Romeo are available: with free movement, with "dead man" safety device (with mechanical interlock with or without NO/NC contact), or

with electrical interlock. Not all versions are available on any handle of Romeo.

The movement of the rod in both directions can be configured by means of the lever guides. Romeo is a small size joystick available with up to 6 speeds, with or without potentiometer or encoder; a stepless version also available, with integrated analogical actuator, and with current, voltage or PWM outputs.

### MATERIALS

Structural components are made of die-cast nickel-plated zama to ensure maximum resistance, while parts subject to wear are made of techno-polymer.



INDUSTRIAL  
LIFTING



CONSTRUCTION  
LIFTING



INDUSTRIAL  
AUTOMATION



STAGE  
TECHNOLOGY

## STANDARDS - MARKINGS - HOMOLOGATIONS

- Conformity to Community Directives:
    - 2006/95/CE: Low Voltage Directive
    - 2006/42/CE: Machinery Directive
  - Conformity to Standards:
    - EN 60204-1 Safety of machinery - Electrical equipment of machines
    - EN 60947-1 Low-voltage switchgear and controlgear
    - EN 60947-5-1 Low-voltage switchgear and controlgear - Control circuit devices and switching elements - Electromechanical control circuit devices
  - Markings and homologations: **CE**
- EN 61000-6-2 Electromagnetic compatibility (EMC) - Generic standards - Immunity for industrial environments
- EN 61000-6-3 Electromagnetic compatibility (EMC) - Generic standards - Emission standard for residential, commercial and light-industrial environments

## GENERAL TECHNICAL SPECIFICATIONS

- Storage ambient temperature:  $-40^{\circ}\text{C}/+70^{\circ}\text{C}$
- Operational ambient temperature:  $-25^{\circ}\text{C}/+70^{\circ}\text{C}$
- Protection degree: IP 00 (IP 65 max. when assembled in specific enclosure)
- Insulation category: Class I
- Operating positions: any position
- Markings and homologations: **CE EAC**

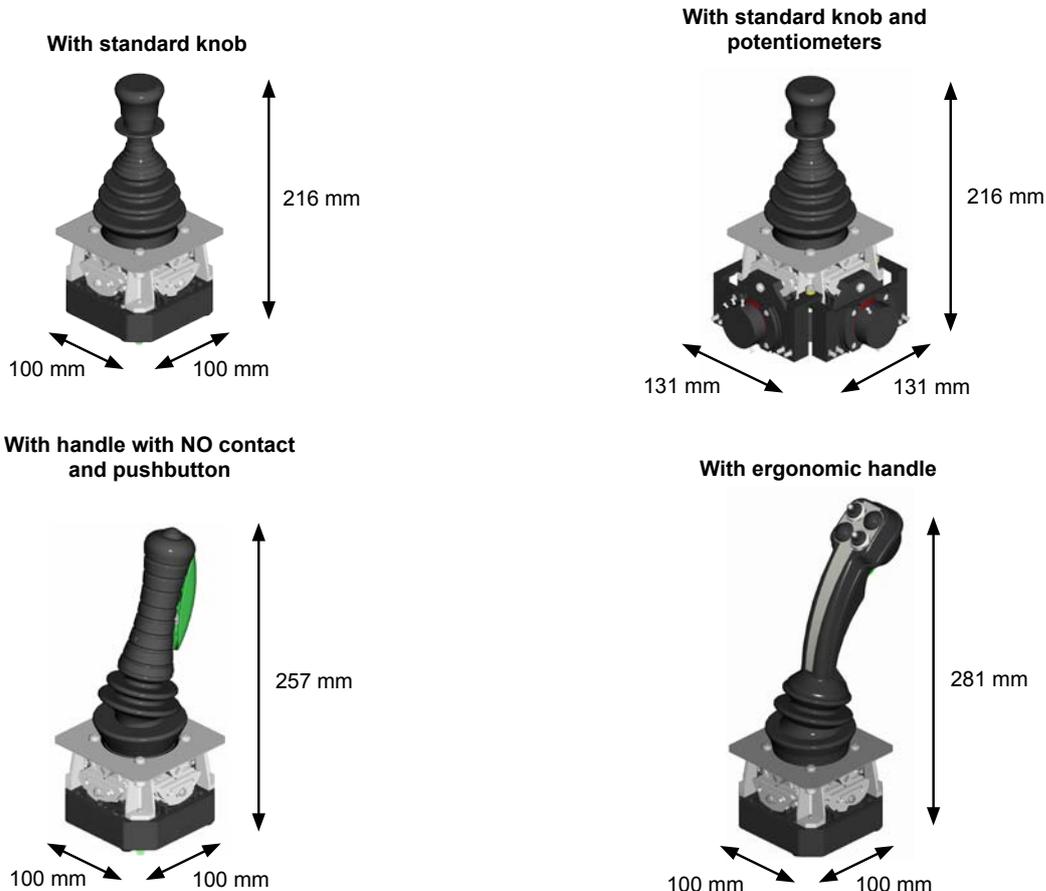
## TECHNICAL SPECIFICATIONS OF THE MICROSWITCHES

- Utilisation category: AC 15
- Rated operational current: 2 A
- Rated operational voltage: 48 V~
- Other operating electrical usage:
  - 125 VAC / 1 A
  - 250 VAC / 0,5 A
  - 30 VDC / 1 A
- Rated thermal current: 8 A
- Rated insulation voltage: 60 V~
- Mechanical life:  $0.5 \times 10^6$  operations
- Connections: terminal board
- Wires:  $0.2 \text{ mm}^2 - 2.5 \text{ mm}^2$
- Tightening torque: 0.5 Nm - 0.6 Nm
- Markings and homologations: **CE**  **CUL**  

## TECHNICAL SPECIFICATIONS OF STEPLESS JOYSTICK

- Supply voltage:  $12 \div 48 \text{ V AC/DC}$
- Proportional outputs:
  - 2 voltage outputs:  $0 \div +10 \text{ Vdc}$
  - 2 current outputs:  $4 \div 20 \text{ mA}$
  - 2 PWM outputs:  $0 \div 100\%$  (freq=1KHz)
- Resolution: 10 bit
- 4 directional microswitches: max 2A / 48V
- Screw terminals:  $2.5 \text{ mm}^2$  (max. section)

## OVERALL DIMENSIONS



The data and the products illustrated in this brochure may be modified without notice. Under no circumstances can their description have a contractual value.



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