

HAND JOYSTICK MJ-H10 (PREVIOUSLY MJ-30K)

This multiaxial hand joystick is designed for precise drive and function control. State-of-the-art technology, a robust construction and an ergonomic design make it the ideal control element for demanding functions. Thanks to the special handle design, the control elements can be easily replaced on site. This saves time, reduces machine downtimes, increases machine availability and extends the already long service life.

Advantages

- Hall or potentimeter technology
- Compact and robust design
- Low installation depth
- Freely configurable

Application examples

- Industrial trucks, forklifts and aerial work platforms
- Agricultural and construction machinery
- Municipal vehicles
- Cranes, excavators





Electrical data	
Sensor technology	Hall-effect or potentiometric
Supply voltage	Hall: 3 – 5 VDC CAN: 8 – 32 VDC
Total current consumption deflection sensor unit	Typ. 15 – 20 mA
Total current consumption CAN base device	Typ. 20 – 35 mA
Total current consumption CAN bus handle	Typ. 15 – 25 mA excl. control units
Load resistance	>2 kΩ
Resolution	12 bit DAC
Interfaces	CANOpen LIN SPI
	Digital PWM Analogue 0.5 - 4.5 V Direct wiring
	Further output protocols on request

Mechanical data	
Deflection angle	X/Y axis ±20°
Operating force deflection X/Y axis	6,5 N
Max. deflection force	500 N
Service life B10	10 million cycles
Installation depth	36 mm / 47 mm



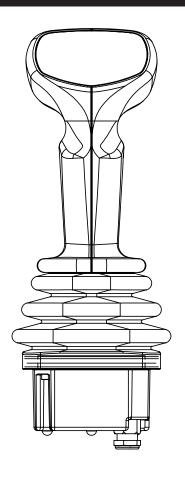
Environmental data / Functional safety	
Operating temperature	-20 °C to +85° C
Storage temperature	-40 °C to +85° C
Protection level acc. to IEC 60529	IP 53
Functional safety	PL d / SIL 2 ready
EMC compliance	EN 61000-4-3 criterion A EN 61000-4-4 level 2 EN 61000-4-2 criterion B
ESD compliance	EN 61000-4-2 criterion B ±8 kV (contact discharge) ±15 kV (air discharge)

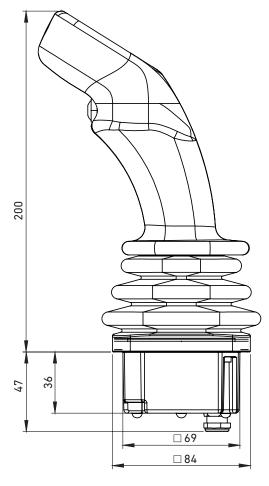
Options
Freely configurable thumb panel
Deflection angle adjustment
Position detent*
Friction brake*
Deadman function
Base and handle available separately
Modular base
Individually crafted handle shapes
* Conductive plastic only



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Drawings





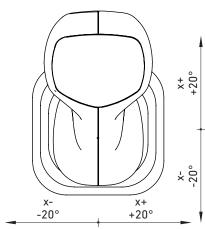
Panel arrangements

Ø 6,50

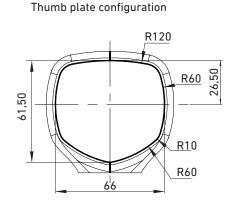
R 2,50

G 66

G 70



Lever operation



All dimensions in mm

Metallux cannot picture the customer's operating and application conditions and the customer's existing environmental influences.

We therefore recommend that you carry out your own investigations into the planned use of the products under the actual operating conditions.

We continuously improve our products and also update our data sheets regularly. In this respect, there may be changes in the specification. These changes will apply to orders received by us from the time of the update, unless otherwise agreed.

Our products comply with Directive 2011/65/EU (RoHS) including Directive 2015/863/EU and Regulation (EC) No. 1907/2006 (REACH).