Press Release

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Metallux develops new, innovative hand joystick for precise control of vehicles, ships, machines and radio remote controls

The new Metallux multiaxial hand joystick MJ-30K is designed for precise drive and function control of vehicles, ships and cranes, machines and remote-control applications. State-of-the-art technology, a robust construction and an ergonomic design make it the ideal control element for demanding functions.

Modern agricultural machines, but also construction machines, municipal machines, excavators and cranes are true technological wonders today. This is already evident in the driver's cabin, which in many vehicles resembles an aircraft cockpit and is equipped with monitors, complex control panels and joysticks. Metallux has developed a hand joystick for these applications, which will be presented for the first time at Bauma 2022 in Munich.

Robust and ergonomic design for pleasure in operation

This multi-axial joystick is characterised by a robust construction and a compact and at the same time ergonomic design. The base unit is solidly built and made of aluminium and stainless materials, the bearing is made of a high-performance plastic.
The handle is symmetrical and therefore suitable for both right- and left-handers.

A major advantage is the very low installation depth of 36 mm: this means that this joystick can be easily installed even in the narrow housing of armrests or control panels.
The modern, low-wear Hall sensor technology ensures a long service life. Alternatively, the joystick is also available with potentiometer elements, which offers enormous advantages, especially in remote control applications, due to the low power consumption.

Numerous connection options available

The joystick is available with interfaces such as CAN OPEN and SAE-J1939, but can also be wired directly to I/O. More are possible on request.
It is also designed to meet performance levels up to PLd and SIL levels.
Its design allows flexible use of a wide variety of connectors.

Extensive modular system for customised solutions

The hand-joystick MJ30-K will be available in several different standard versions, which differ in the type, number and arrangement of the operating elements on the thumb plate.

In addition, Metallux will offer customised solutions in the form of a modular system. The thumb plate is freely configurable: the operating elements such as rockers, thumbwheel and buttons can be combined and arranged as desired.
It will also be possible to design the handle shapes according to the customer requirements. The base unit is modular, so that it is possible to equip them with mechanical detents or friction hold.

Another big advantage is that base unit and handle will be available separately. This means that the Metallux base unit can be fitted to a customised handle, but also Metallux handles can be fitted to third-party base units.

Sustainability and economy

And last but not least: the Metallux hand-joystick MJ-30K makes an important contribution to sustainability and economy: the operating elements that are exposed to the greatest stress are available as spare parts and can be replaced on site. In this way, a defective joystick can be repaired on site in a short time – this saves time and money because downtimes can be avoided and machine availability significantly increased.

Visit us at Bauma fair in hall A2, stand no. 520 and test the new joystick live.

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Pictures:

The new hand-joystick MJ-30K from Metallux AG

Profile Metallux AG
Metallux AG is an international, leading developer and manufacturer of sensors in thick-film technology. The extensive product portfolio ranges from pressure, linear and rotary sensors to resistors and industrial joysticks for controlling vehicles and machines. Innovative products and tailor-made, customer-specific solutions - Made in Germany: this is a combination that well-known customers from the fields of vehicle construction, medical technology, energy and environmental technology, materials handling and lifting technology and mechanical engineering rely on for over 30 years.

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