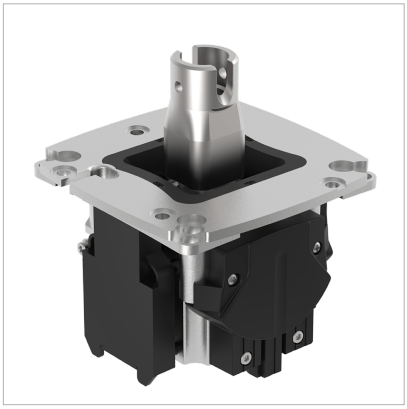
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# Robust Joystick J4 Base

## Robust, top mounted.

The J4 robust joystick is ideal for high-stress and high-frequency use thanks to its robust design. It was designed for use in mobile machinery, such as wheel loaders for operating the bucket functions.

## Technical specifications

- Robust joystick for installation from above
- Space-saving design
- High reliability and long service life thanks to contactless Hall-effect and reed technology
- Available with different output signals: analogue, redundant, CAN bus connection (CANopen/SAE]1939) or with switching output
- IP67 protection class of electronics, ideal for harsh environmental conditions
- Deflection ±20°
- Available with various actuation types: no-detent, detent, with friction brake or centre position interlock, any functioncan be optimally operated
- Designed for extremely heavy loads (x-/y-axis: 2000 N, z-axis: 700 N at 190 mm lever length each)

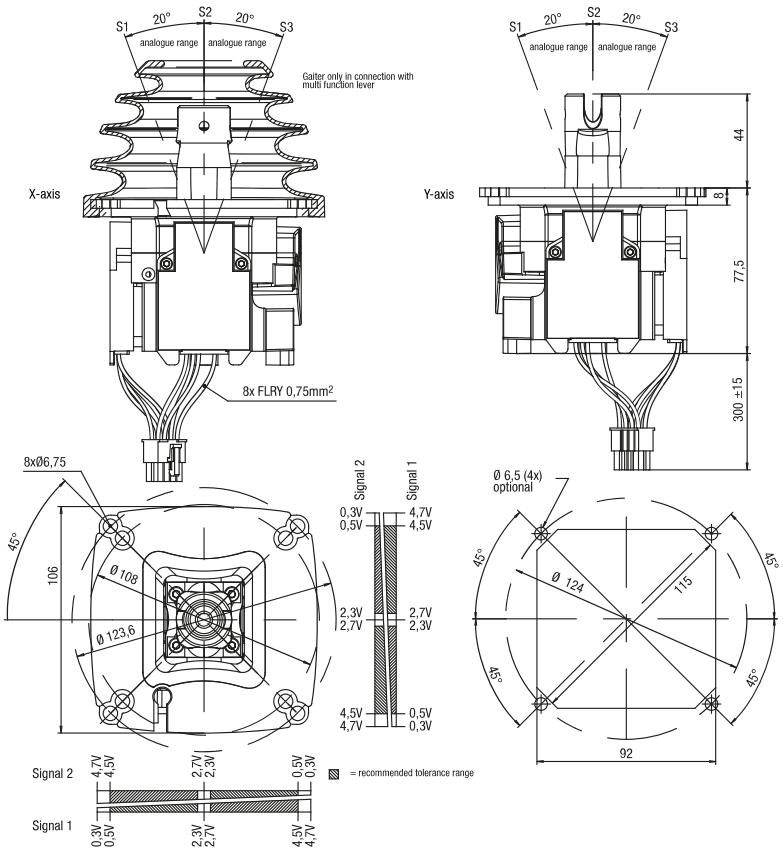
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## Technical drawing

IMAGE 1/3



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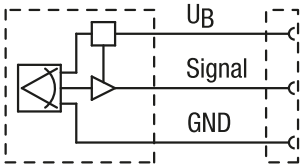
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IMAGE 2/3

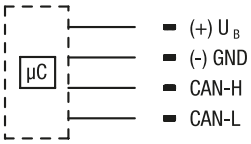
## Standard

### Analogue each X- and Y-axis



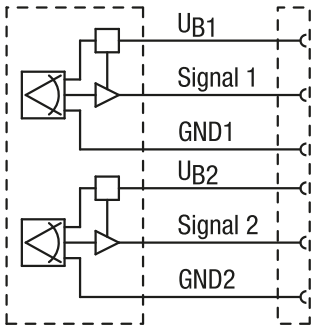

### CAN

CAN

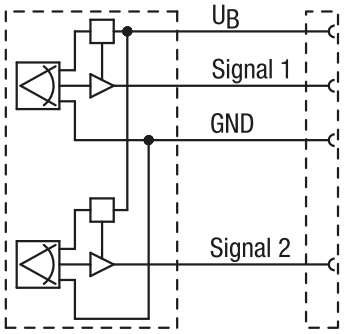



## Optional

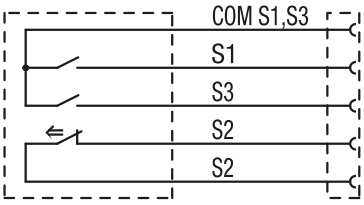
### Redundant each X- und Y-axis




### Semi-redundant each X- and Y-axis




### Switching output each X- and Y-axis



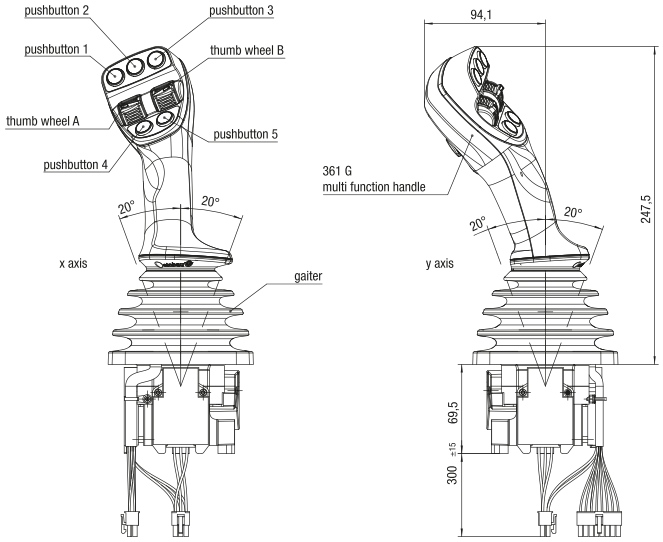
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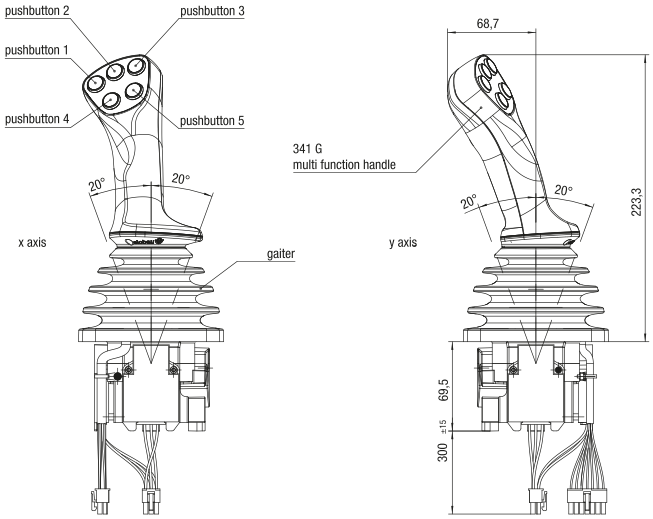


IMAGE 3/3

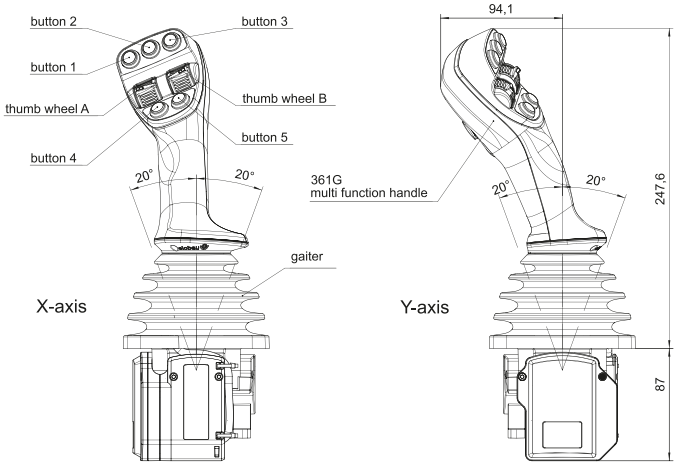
### J4 joystick with Multi-function handle 361G...



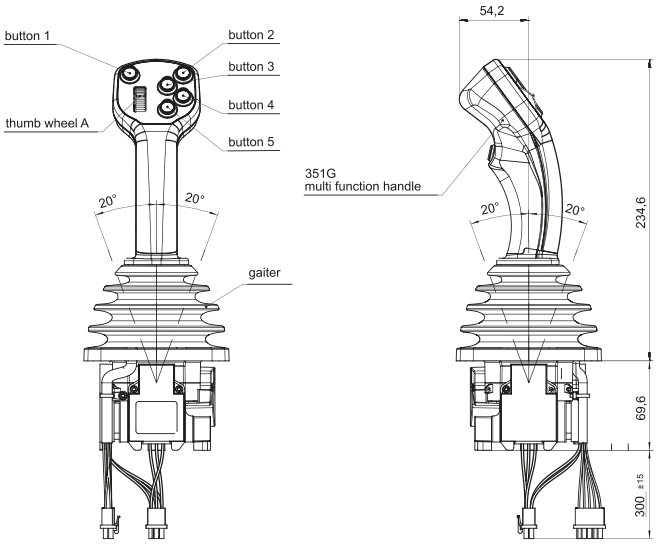

### J4 joystick with Multi-function handle 341G...




### J4 joystick with CAN electronics und Multi-function handle 361G




### J4 joystick with Multi-function handle 351G



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## Article characteristics

| Attribute | J4A6... | J4C6...CANopen | J4C6...SAE_J1939 |
|---|---|---|---|
| **Polarity reversal protection** | yes | - | |
| **Output signal min.** | 0.5 V DC | - | |
| **Output signal max.** | 4.5 V DC | - | |
| **Output signal** | analogue | - | |
| **Output signal - centre position/zero position** | 2.5 V DC | - | |
| **EMC immunity (Norm)** | DIN EN 13309, DIN EN ISO 14982 | - | |
| **EMC emission (Norm)** | DIN EN 13309, DIN EN ISO 14982 | - | |
| **Operating voltage min.** | 4.5 V DC | 9 V DC | |
| **Operating voltage max.** | 5.5 V DC | 36 V DC | |
| **Current consumption** | max. 15 mA | 120 mA | |
| **Load resistance min.** | 20000 Ohm | - | |
| **Short-circuit resistance to GND** | yes | - | |
| **Short-circuit resistance to supply** | yes | - | |
| **Technology** | Hall | | |
| **Protocol** | - | CANopen | J1939 |
| **Transmitting cycle** | - | 100 ms | |
| **Baud rate** | - | 250 kBit/s | |
| **Bus terminating resistor** | - | no | |
| **Max. lever load with specified lever length** | 190 mm / 2000 N | | |
| **Deflection** | ± 20 ° | | |
| **Service life, mechanical (Cycles)** | 2000000 | | |
| **Protection class, electronic** | IP67 DIN EN 60529 | | |
| **Operating temperature min.** | -25 °C | | |
| **Max. operating temperature** | 85 °C | | |
| **Min. storage temperature** | -40 °C | | |
| **Max. storage temperature** | 85 °C | | |
| **Installation** | from above | | |
| **Mounting type** | screwed from above | | |
| **Connector type** | Mini-Fit Jr. | - | |
| **Cable type** | FLRY | | |
| **Cable length** | 0.3 m | - | |