


COMPARISON ROBUST JOYSTICK J4F & ROBUST JOYSTICK JE

elobau 
sustainable solutions

J4F

JE

Comparison joystick system – dimensions & weight



J4 + 361G

| Features | J4 + 361G | JE + 371G |
|---|-------------------|-------------------|
| Dimension Joystick System (Base + Handle) | 334,6 mm | 289,5 mm |
| Dimensions above assembly interface (with handle) | 247,6 mm | 227,2 mm |
| Dimensions under assembly interface | 87 mm | 62,3 mm |
| Weight Base | 1.260 g | 670 g |
| Hole Pattern | 87,7 mm x 87,7 mm | 87,7 mm x 87,7 mm |
| Max. Height without rubber gaiter | 106 mm x 106 mm | 106 mm x 106 mm |
| Max. depth under assembly plate (3mm plate) | 87 mm | 62,3 mm |
| IP Classification mounted (electronic) | IP6K7K | IP6K9K |
| IP Classification mounted (mechanic) | IP54 | IP6K9K |

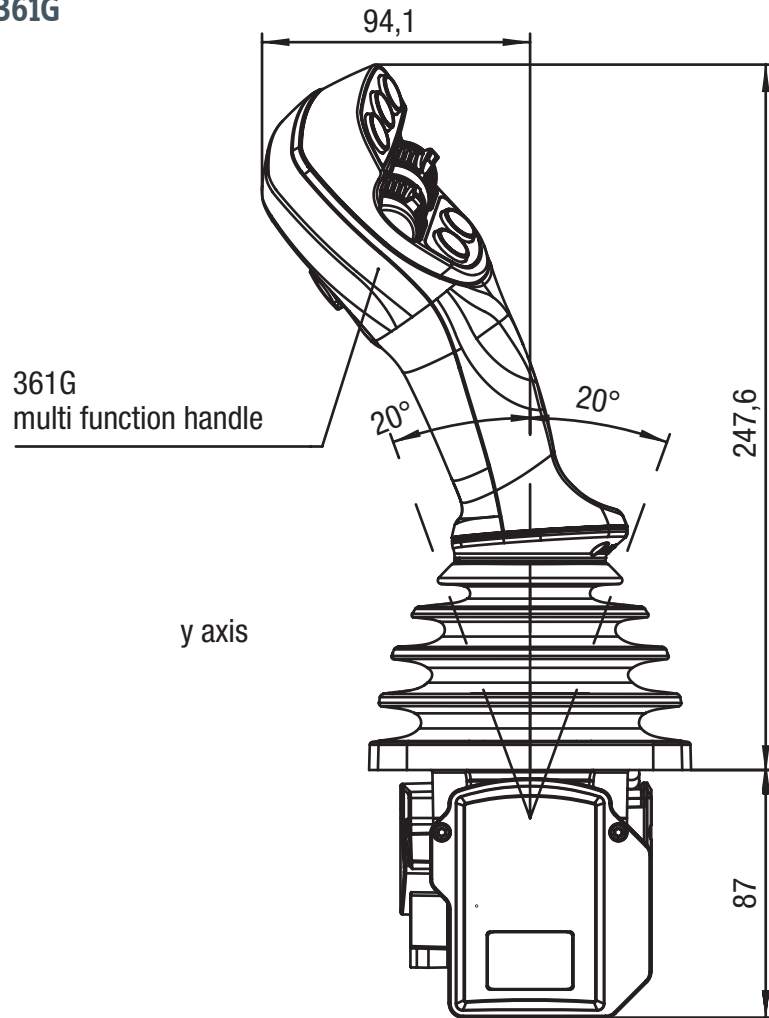


JE + 371G

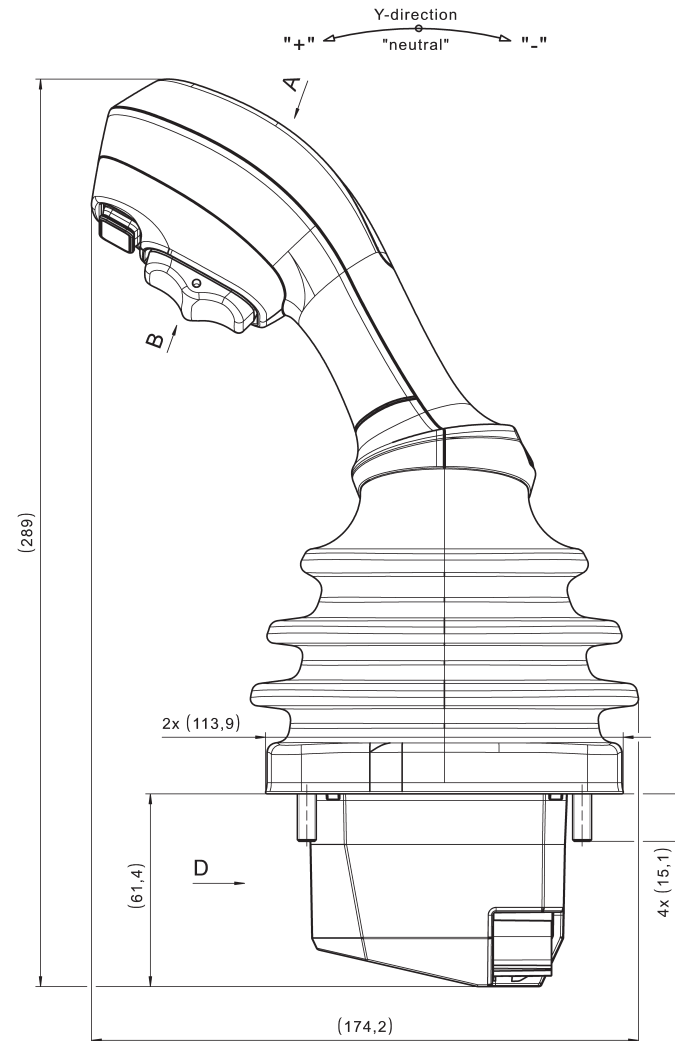


Comparison joystick system – dimensions

J4 + 361G



JE + 371G



Comparison joystick system

| Features | J4 + 361G | JE + 371G |
|--------------------------|---|--|
| CAN Parameters | J1939 (own safety protocol) | J1939 J1939-76 CANopen CANopen Safety |
| Connector | Deutsch DT04-6P (Integrated connector) | Molex MX150 6 Pin (Integrated connector) |
| Safety Performance Level | SIL2/PLd | PLd (only for J1939-76 and CANopen Safety) |



Comparison joystick system



| Features | J4 + 361G | JE + 371G |
|---|----------------------------|---------------------------------------|
| Max. deflection angle (X/Y) | 20° | 25° |
| Freeplay in middle position | Slight freeplay | No freeplay |
| Lifetime full cycles | 2 Mio. | 3 Mio. |
| Pivot point above interface (3mm plate) | -17 mm | 8 mm |
| Mounting direction | from above | from above |
| Mounting type | With screws and screw nuts | Injection-molded studs and screw nuts |
| Fastening Method | No sealing | Fixed via screws |
| Sealing installation | No sealing | Fully sealed rubber gaiter |
| Operating voltage | 9-36 V | 9-36 V |
| Storage temperature | -40° C ... +85° C | -40° C ... +85° C |
| Operating temperature | -25° C ... +85° C | -25° C ... +85° C |

Comparison handle – buttons

36xG Handle



37xG Handle



| Features | J4 + 36xG | JE + 37xG |
|--------------------------|---|--------------------------------------|
| Protection class | Up to IP6K7K | IP6K9K |
| Lifecycle | 2 Mio. | 4 Mio. |
| Illumination | Backlight and Functionlighting cannot be changed during operation | RGB-LED, changeable during operation |
| Symbols | Illuminated Backlight | Illuminated symbols with RGB-LED |
| Audible "positive" click | No | Yes |

Comparison handle – Thumbwheels vs thumbtips

36xG Handle



37xG Handle



| Features | J4 + 36xG | JE + 37xG |
|----------------------|---|---|
| Protection class | IP54 | IP6K9K |
| Lifecycle | 2 Mio. | 4 Mio. |
| Illumination | Backlight and Functionlighting cannot be changed during operation | RGB-LED, changeable during operation |
| Symbols | No | Illuminated symbols with RGB-LED |
| Push button function | No | As option |
| Actuator | Single component (plastic) | Two component (plastic with Soft-touch coating) |

Comparison joysticks

Functional safety

| Features | J4 + 36xG | JE + 37xG |
|-------------------------|---|---------------------------|
| Safety standard applied | according to IEC 61508 according to EN ISO 13849 | according to EN ISO 13849 |
| Joystick | PLd | PLd |
| Thumbwheel/Thumbtip | PLd | PLd |
| Buttons | PLc | PLc |
| Cap. Sensor | No | PLc |

Configurations

| Adjustable Options | J4 + 36xG | JE + 37xG |
|--------------------|-------------------------------------|---|
| CAN Parameters | No | Source Address, Node ID, Baudrate, Cycle Time |
| LEDs | Ex works, not changeable during use | RGB LED, colour and brightness can be changed during operation |

