


COMPARISON ROBUST JOYSTICK J4F & ROBUST JOYSTICK JE

elobau 
sustainable solutions

J4F

JE

Comparison joystick system – dimensions & weight



J4 + 36xG

Features	J4 + 36xG	JE + 37xG
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

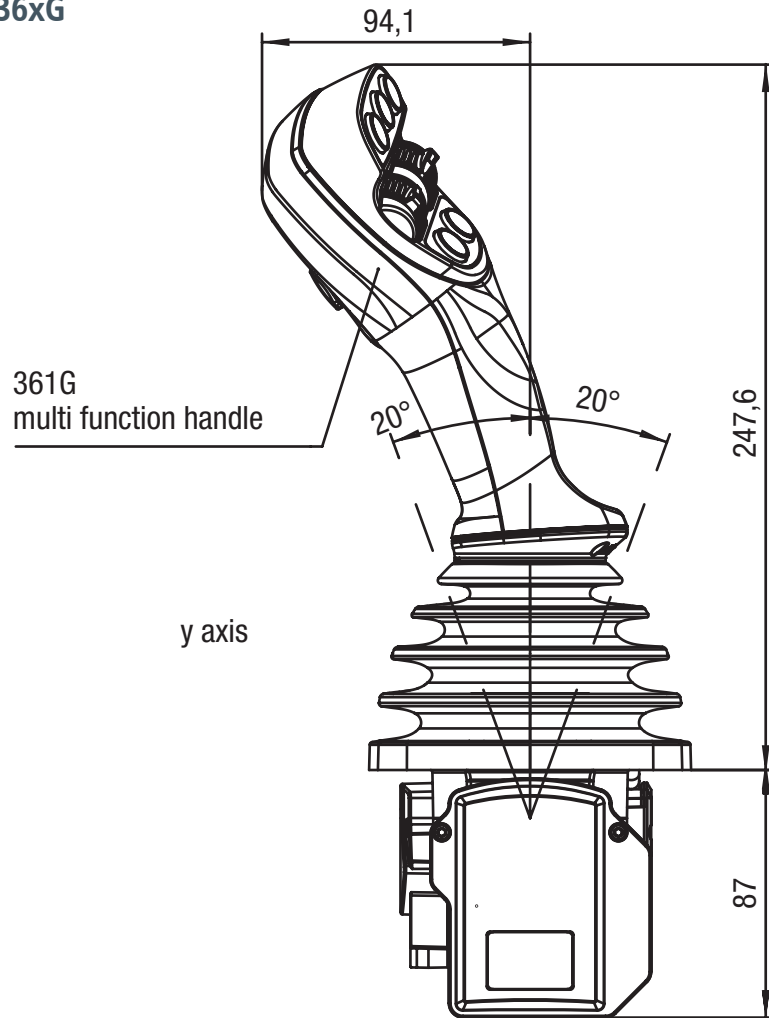


JE + 37xG

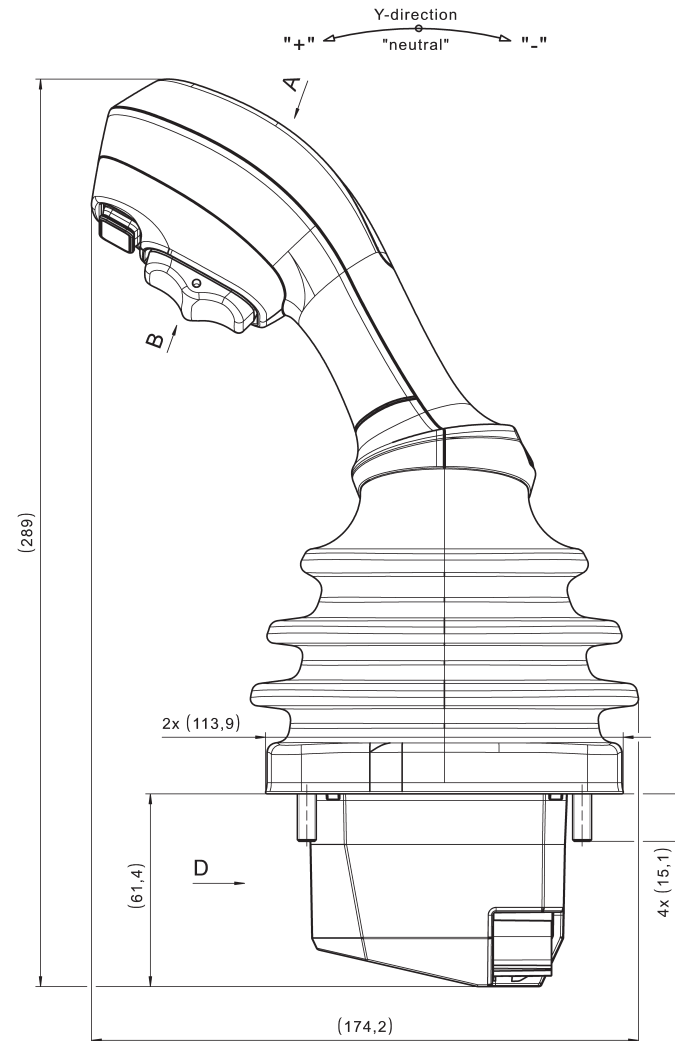


Comparison joystick system – dimensions

J4 + 36xG



JE + 37xG



Comparison joystick system

Features	J4 + 36xG	JE + 37xG
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 + 36xG	JE + 37xG
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

