



Joystick SK60 – 3 axis



Moving in all dimensions

Move your application easily in all 3 dimensions and control 3 axis precisely with only one joystick.

The 3 axis SK 60 can be equipped individually with rotating knobs to make it perfectly suitable to your application. Proportional signals combined with digital outputs on all 3 axis are just as possible, as redundant versions.

Typical applications for this all-round joystick are remote controls, railway technology, marine applications, machinery, control consoles and all kind of vehicles.

Please contact us, it will be our pleasure to suggest an individual joystick solution for your specific needs.

Technical description

Dimensions	Mounting depth	32 mm
	Ø Housing	47 mm
	Ø Flange	60 mm
Mounting	4 x M3 screws	
Technology	Conductive plastic 5k Ohm Hall technology Center tab if required Optional redundant output	
Directional switch	Contacts Optional combined with analogue signal Micro switches up to 5 A Neutral position switch	
Operating voltage	Max. 30 V DC	
Operating angle	20° for x and y axis Up to 360° for z axis	
Connection	Dubox or stranded wires as standard Customer specific connectors USB or CANopen upon request	
Durability	More than 3 Mio. cycles	
Temperature range	-20° - +70° C	
Protection class	IP65	
Guidance	Return spring with soft, rigid or without guidance Friction brake in all 3 axis	





Joystick SK60



The all-rounder

The SK60 offers an amazingly small installation depth and is thereby one of the most rugged and versatile joysticks available. Dust and splash-proof, this joystick can be equipped with an abundance of different handle variants and auxiliary options such as switches, push buttons etc.. It is suitable for the installation into various applications like radio controls, machines, control consoles, vehicles and ships.

Please contact us, it will be our pleasure to suggest an individual joystick solution for your specific needs.

Technical description

Dimensions	Mounting depth	32 mm
	Ø Housing	47 mm
	Ø Flange	60 mm
Mounting	4 x M3 screws	
Technology	Conductive plastic 5k Ohm (± 20%) Wiper current >10µA to max 1mA Center tab ±1.75° Optional redundant output	
Directional switch	Contacts Optional combined with analogue signal Micro switches up to 5 A Neutral position switch	
Operating voltage	Max. 30 V DC	
Operating angle	Up to - 22°	
Connection	Dubox or cable Customer specific connectors USB or CANopen upon request	
Durability	More than 3 Mio. Cycles	
Temperature range	-20° - +70° C	
Protection class	IP65	
Directional switch	Contacts, micro switches up to 5A, neutral position switch. Optionally combined with analogue signal	

Handles



Snugly



Kermit



3-axis



Baby kermit



Rocker



Side pusher

SK60 joystick handles

Modelled for your hand, adapted to your needs

The SK60 joystick can be fitted with a wide choice of ergonomic handles, with different functions like push-buttons, toggles and switches, adapted to your individual needs. You define the conception, we implement it.



Standard (60-573)

Dimensions H: 34.5mm, Ø: 20mm

Functions Non-slip handle

Options Sealed, one-piece gaiter



Colored (60-149f)

Dimensions H: 51.5, Ø: 30mm

Functions With or without push-button

Options Aluminium or anodized



Snugly (60-565)

Dimensions H: 46.5mm, Ø: 32mm

Functions With or without push-button

Options With or without collar



Twister (60-573)

Dimensions H: 51.5mm, Ø: 30mm

Functions 3rd axis as analogue line and/or as digital switch

Options Perceptible zero-point, with return spring



Larch (60-113)

Dimensions H: 25mm, Ø: 22mm

Functions Rubber bellow encloses flange

Options Variable handle height



Push-button (60-149)

Dimensions H: 51.5mm, Ø: 30mm

Functions Push-button

Options Top push-button



Kermit (60-593)

Dimensions H: 107.5mm, Ø: 50mm

Functions 2 push-buttons

Options Cap from aluminum or plastic



Traffic light (60-592)

Dimensions H: 111mm, Ø: 33mm

Functions 3 push-buttons

Options Aluminum or plastic insert for push-buttons



Trioculus (60-591)

Dimensions H: 60mm, Ø: 50mm

Functions 3 push-buttons

Options Cap from aluminum or plastic



Side-pusher (60-273)

Dimensions H: 115mm, Ø: 40mm

Functions Top or lateral push-button

Options Top or lateral push-button



Toggle (60-531)

Dimensions H: 95mm, Ø: 30mm

Functions Toggle (2, 3 or more step switch)

Options Various switches available



Pillar (60-163)

Dimensions H: 88mm, Ø: 25mm

Functions Push-button with protection cap

Options With or without push-button



Joystick SK60 with friction break



Put'n Stay

Rugged dust and splash water proof joystick with friction break to adjust speeds, revolutions p./m. or positions in a precise way even in harsh environmental conditions. A compact subpanel part allows a fitting even in very shallow panels.

The Rest'n Twist version with rotatable knob offers a second axis. Optional switching functions and various handles with or without pushbuttons cover a broad area of possible implementations.

Amongst others, shipbuilding, yachting, electrical vehicles and machine tools may be considered as typical applications.

Please contact us, it will be our pleasure to suggest an individual joystick solution for your specific needs.

Technical description

Dimensions	Mounting depth	32 mm
	Ø Housing	47 mm
	Ø Flange	60 mm
Mounting	4 x M3 screws	
Technology	Conductive plastic 5k Ohm (± 20%) Wiper current >10µA to max 1mA Center tab ±1.75° Optional redundant output	
Operating voltage	Max. 30 V DC	
Operating angle	15° - 20°	
Connection	Dubox or cable Customer specific connectors USB or CANopen upon request	
Durability	More than 3 Mio. Cycles	
Temperature range	-20° - +70° C	
Protection class	IP65	
Directional switch	Contacts, micro switches up to 5A, neutral position switch. Optionally combined with analogue signal	
Applications	Marine bow propeller steerings Machine industries	





Joystick SK60 – Lock'n Stay



Throttle with central lock

This joystick features the friction break function already found in our reliable "Put'n Stay" joystick, but adds up a central position lock which can be released by pulling the collar ring on the handle.

Dust and splash waterproof like all products of the SK60 range, it features also the same small and low-depth base, allowing assembly into shallow panels and restraint space conditions.

With a large choice of electric functions and interfaces according to your wishes, this new joystick is predestined to be used in all kind of vehicles, machines, railways or naval applications.

Please contact us, it will be our pleasure to suggest an individual joystick solution for your specific needs.

Technical description

Dimensions	Mounting depth	32 mm
	Ø Housing	47 mm
	Ø Flange (adaptable)	60 mm
Mounting	4 x M3 screws Mounting ring	
Technology	Conductive plastic 5k Ohm (± 20%) Wiper current >10µA to max 1mA Center tab Optional redundant output	
Directional switch	Contacts Optional combined with analogue signal Micro switches up to 5 A Neutral position switch	
Operating voltage	Max. 30 V DC	
Operating angle	15°	
Connection	Dubox or cable Customer specific connectors USB or CANbus upon request	
Durability	More than 3 Mio. Cycles	
Temperature range	-20° - +70° C	
Protection class	IP65	





SK60 – shipbuilding



Clever engineered and splash-proof

Genge & Thoma offers a range of joysticks specially engineered for naval applications. Be it sailing yachts, cruise boats, cargo ships, ferries or any other maritime use, we have the right solution for your individual needs.

Our joysticks are available with up to 4 axes, friction break, personalized handles and customizable electrical functions with various functions and ergonomic shapes. Materials can vary from anodized aluminum to chromed steel, plastic or wood of your choice.

Please contact us, it will be our pleasure to suggest an individual joystick solution for your specific needs.

Technical description

Dimensions	Mounting depth	32 mm
	Ø Housing	47 mm
	Ø Flange	60 mm
Mounting	Individual mounting assemblies	
Technology	Conductive plastic 5k Ohm (± 20%) Wiper current >10µA to max 1mA Center tab ±1.75° Optional redundant output	
Operating voltage	Max. 30 V DC	
Operating angle	15° - 20°	
Connection	Dubox or cable Customer specific connectors USB or CANopen on demand	
Durability	More than 3 Mio. Cycles	
Temperature range	-20° - +80° C	
Protection class	IP65 Good salt water and sunlight characteristics	
Directional switch	Contacts, micro switches up to 5A, neutral position switch. Optionally combined with analogue signal	
Handle	Various standard handles Customized form and function Different materials and colors	

