



## BS160 tiller controller



### Navigate safely

Be it for world record holding sailboats, luxury yachts or large freighters they all thrust on GT naval joysticks and GT naval controllers.

The BS160 tiller controller is equipped with contactless hall effect sensors and includes a customizable design handle with a customizable rotary angle. Furthermore it offers individual perceptible notches as well as a dimmable illumination of the deflection angle.

The BS130 an azimuth controller and the BS140 an engine controller complete the range of GT naval controller units in a unique design.

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

### Technical description

Dimensions	Ø Housing	60 mm
	Height housing	38 mm
	Installation depth	0 mm
Mounting	Directly onto the panel with M4 screws No installation depth, only cable feedthrough	
Housing	Anodized aluminum with integrated LED	
Lever	Anodized aluminium Plastic or wooden knob Standard or customized design	
Operation	Rotary: customizable up to 360° perceptible catches on request	
Technology	Hall effect sensors	
Operating voltage	8 – 24 V	
Output signals	Voltage: 0.5 – 4.5 V Current: 4 – 20 mA	
Electrical connection	9 pin Dubox	
Life cycles	Up to 3 Mio. cycles	
Temperature range	-20° to +80° C	
Protection class	IP64 Moving parts sealed with O-ring Installation face sealed with surface sealing	





## BS130 azimuth controller



### Be master of the thrusters

Be it for world record holding sailboats, luxury yachts or large freighters they all thrust on GT naval joysticks and GT naval controllers.

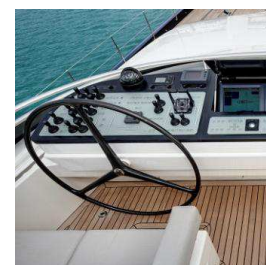
The BS130 azimuth controller is equipped with contactless hall effect sensors and includes a customizable design-handle with a maximum range of  $\pm 70^\circ$  for speed control and a rotary angle of up to  $360^\circ$ . Furthermore it offers customizable perceptible notches as well as a dimmable illumination of the deflection angle.

The BS140 an engine controller and the BS160 a tiller controller complete the range of GT naval controller units in a unique design.

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

### Technical description

Dimensions	Ø Housing Installation depth	60 mm 0 mm
Mounting	Directly onto the panel with M4 screws No installation depth, only cable feedthrough	
Housing	Anodized aluminum with integrated LED	
Lever	Anodized aluminium Plastic or wooden knob Standard or customized design	
Operation	Rotary: customizable up to $360^\circ$ , optional catches Lever: customizable up to $\pm 70^\circ$ , optional catches at $\pm 8^\circ$	
Technology	Hall effect sensors	
Operating voltage	8 – 24 V	
Output signals	Voltage: 0.5 – 4.5 V Current: 4 – 20 mA	
Electrical connection	9 pin Dubox	
Life cycles	Up to 3 Mio. cycles	
Temperature range	$-20^\circ$ to $+80^\circ$ C	
Protection class	IP64 Moving parts sealed with O-ring Installation face sealed with surface sealing	





## BS140 engine controller



### At full throttle

Be it for world record holding sailboats, luxury yachts or large freighters they all thrust on GT naval joysticks and GT naval controllers.

The BS140 azimuth controller is equipped with contactless hall effect sensors and includes a customizable design single or double handle with a maximum range of  $\pm 70^\circ$  for speed control. Furthermore it offers customizable perceptible notches as well as a dimmable illumination of the deflection angle.

The BS130 an azimuth controller and the BS160 a tiller controller complete the range of GT naval controller units in a unique design.

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

### Technical description

Dimensions	Ø Housing	60 mm
	Height housing	38 mm
	Installation depth	0 mm
Mounting	Directly onto the panel with M4 screws No installation depth	
Housing	Anodized aluminum with integrated LED	
Lever	Single or double Anodized aluminium Plastic or wooden knob Standard or customized design	
Operation	Lever: customizable up to $\pm 70^\circ$ , optional catches at $\pm 8^\circ$	
Technology	Hall effect sensors	
Operating voltage	8 – 24 V	
Output signals	Voltage: 0.5 – 4.5 V Current: 4 – 20 mA	
Electrical connection	9 pin Dubox	
Life cycles	Up to 3 Mio. cycles	
Temperature range	-20° to +80° C	
Protection class	IP64 Moving parts sealed with O-ring Installation face sealed with surface sealing	

