

POWER & CONTROL

SEASTAR OPTIMUS ADAPTIVE TRIM TAB SYSTEM

Sophisticated design provides position feedback and complete integration with the Optimus Joystick and Electronic Power Steering systems.

INNOVATIVE RUGGED DESIGN
INCREASED RELIABILITY

INTUITIVE DIAL CONTROLLER
EASY USER INTERFACE

INTEGRATED ACTUATOR SYSTEM
DIGITAL POSITION COMMANDS



Mobile living made easy.

 **DOMETIC**

INTELLIGENT DESIGN FOR INTUITIVE CONTROL



ACTUATOR

- Sealed and potted wiring and electronics.
- Built-in power electronics, position sensing and CAN communication.
- High torque DC Motor.
- Rugged & stylish housing.
- Planetary gearbox and inverted lead-screw design provides ultra-efficient and reliable high load transfer and quiet operation.
- Dual housing seals.
- Scratch resistant ground and chromed solid actuation shaft.
- Rear seal in protected bushing area.
- Wiper removes particles from shaft and protects rear seal.
- Thrust bearings fore and aft provide efficient, high load capability in extension and retraction.

SMART INTEGRATION WITH JOYSTICK AND EPS

The Trim Tabs are integrated with the Optimus Joystick and Optimus EPS systems.

- With Hole Shot Mode enabled, tabs fully extend at takeoff to get boat on plane efficiently.
- Tabs move to Favorite position once set RPM or speed are achieved for optimum ride performance.
- When throttle goes into reverse, or Joystick Mode is enabled, tabs automatically fully retract for safety and control.



Mobile living made easy.

ALL ELECTRIC

All electric design reduces complexity and increases reliability.



TRIM TABS



Heavy duty 12 GA 304 stainless steel plate, electro polished.

Trim tab kits contain marine grade stainless steel 316 fasteners.

Thick 1/4" hinge pin to eliminate tab warping.

Heavy duty 14 GA stainless steel hinge to ensure robust tab performance.

Custom tabs available.

ADAPTIVE DIAL CONTROLLER



LEDs accurately indicate Trim Tab positions.

Turn dial manually to level boat as conditions change.

Each button push lowers bow in precise increments. Hold button to lower bow quickly.

Multi-colour LEDs indicate power and status of Trim Tab system. User adjustable LED brightness.

Quickly move tabs to fully retracted home position.

Enable automatic Hole Shot feature that helps to plane the boat faster and limit bow rise.

Automatically learns and moves your tabs to your favorite tab position during cruising.

Program your favorite position manually, and push button to quickly move the boat to the preferred position.

Each button push raises bow in precise increments. Hold button to raise bow quickly.

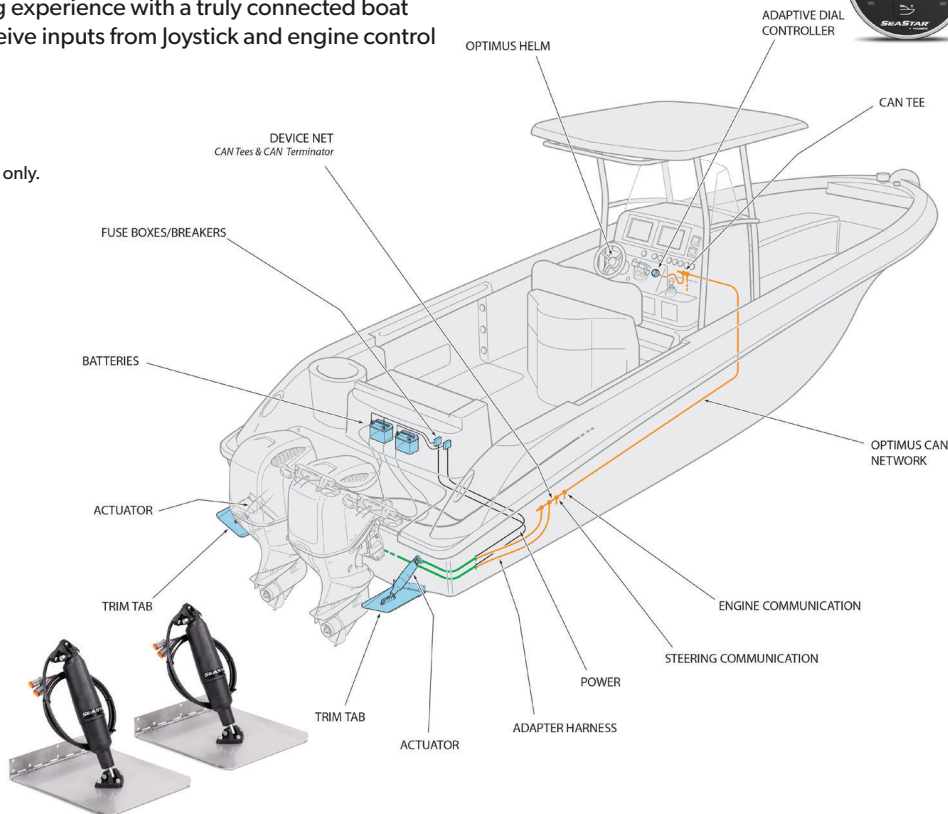
Adjustable pitch and roll control sensitivity.

ADAPTIVE TRIM TAB SCHEMATIC

Get the ultimate boating experience with a truly connected boat where the Trim Tabs receive inputs from Joystick and engine control



* Wiring diagram for reference only.



SPECIFICATIONS	SUMMARY
Stroke length	2.25" and 4.25"
Positional accuracy	+/- 0.050"
Operating voltage	9-16 VDC (SAE J1455)
Max Push/Pull Load Capability	1000 lbs
Impact Resistance	50G in Z-axis (ABYC P-27 / IEC60068)
Operating temperature	-18 to 77 C (ISO 25197)
Storage temperature	-40 to 85 C (ISO 25197)
Actuator power consumption under typical load	120 W (10 A)
Actuator water ingress protection	IP66M, IP68M, IP69K (High Pressure Wash Down)
Dial controller water ingress protection	IP56
Connections to tab actuator	3pin Deutsch for CAN 2pin Deutsch for power (Pos & Neg)
Dial controller	Private CAN network, 250 kbps (SAE J1939), position LED indicators
Regulatory	American Boat and Yacht Council (ABYC) European Union (EU) recreational craft directive 2013/53/EU (replacing 94/25/EC) CE,
Trim tabs	304 stainless steel, 12 gauge, electro-polished, and custom sizes/designs available
Note: Subject to change	