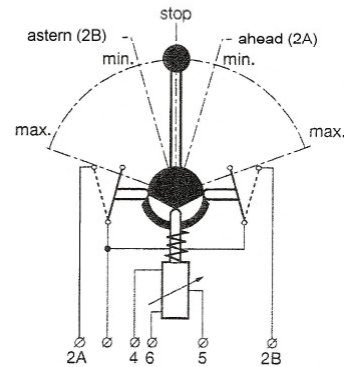
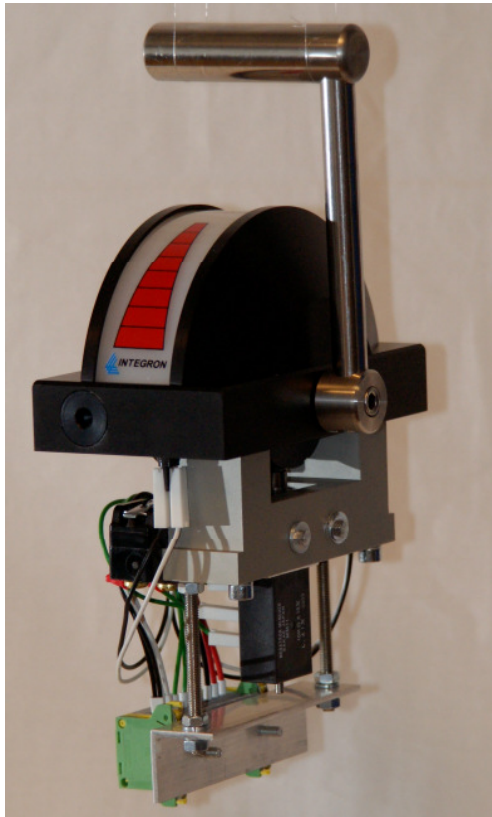


## Lever operated electric controller, type Servo F



### Function

By turning a lever out of the neutral mid-position in 2 directions, a potentiometer is infinitely adjusted and with that an electric voltage or current. As soon as the lever has a certain angular displacement out of the mid-position, a separate switch is operated in both directions.

### Applications

Remote control for marine engines with electrically operated speed regulator and reversing gear. By adding E/P converters also suitable for remote control for engines with pneumatically operated speed regulators and/or reversing gears.

### Construction

The controller consists of a construction suitable for panel mounting:

- With at one side, after building in visible, a rotatable lever and a cover with illuminated indication of the lever position.
- With at the other side, yet to build in, a potentiometer, two micro switches and a connection terminal block. With the lever, internal cams are rotated through which the potentiometer and the micro switches are operated.

An adjustable brake is used to maintain the adjusted lever position after releasing.

### Operation

In both directions the lever of the controller can be freely turned out of the neutral mid-position over the whole range and remains in the adjusted position after releasing.

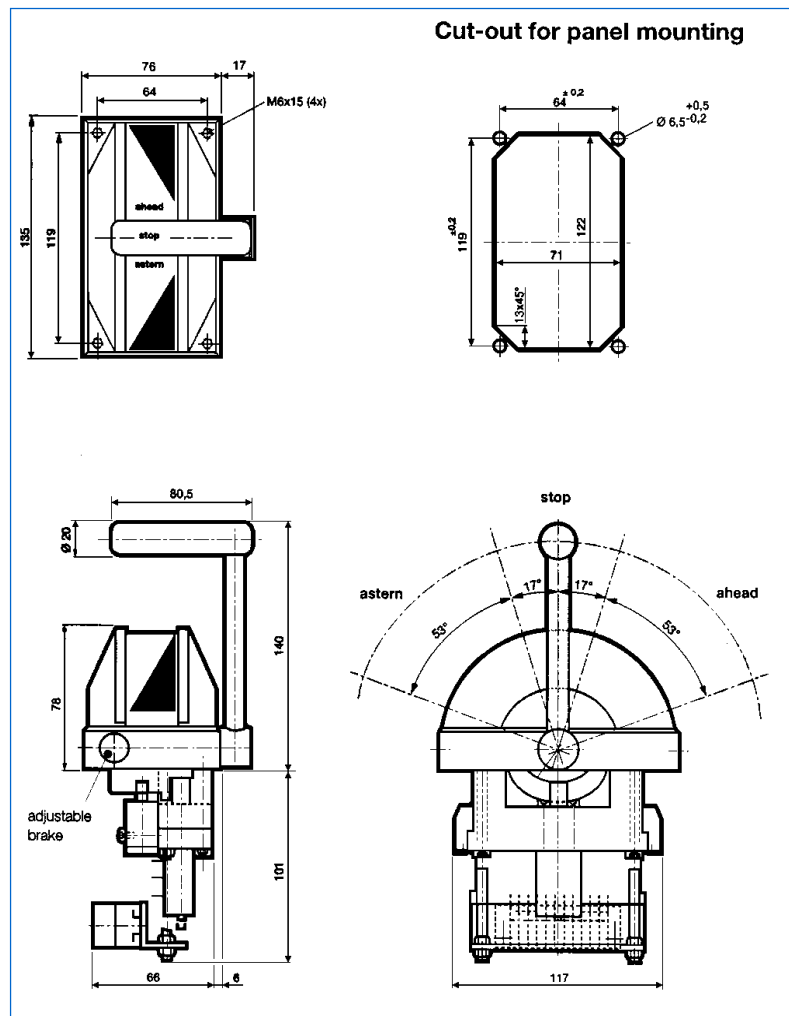
The mid-position of the lever is perceptible just as the 2 positions where the two micro switches start to be operated.

By turning the lever out of the mid-position, the potentiometer is adjusted in the same measure in both directions.

The direction or rotation of the lever is derived from the operation of one of the two micro switches, and the measure of rotation is derived from the change of the resistance of the potentiometer. This change of resistance is linearly to the angular displacement of the lever.

To meet the specific proportions of the engine to be controlled, the linearity with the angular lever displacement changing resistance can be converted with the help of an optional Electronic Curve Converter, type ECC (see concerning brochure).

## Technical data/dimensions (mm)



### Technical data

- Suitable for panel mounting
- Lever:
  - angular displacement out of the neutral mid-position:
    - in both directions max. 70° for adjusting the potentiometer.
    - in both directions from 17° up to 70° for operating one of the two micro switches.
  - location: right - **R**, left - **L**
  - adjustable brake
- Potentiometer:
  - resistance : 10kΩ +/- 10%
  - linearity : +/- 1%
  - max. power rating : 2 W

- Micro switches:
  - number : 2
  - switch voltage : max. 250 VAC/DC
  - current : max. 10A
  - contacts : 1 change over
- Scale : with position indication
- Illumination : 2 bulbs 28V/2W
- Electrical connections : terminal block
- Protecting class : IP 50
- Temperature range : -10° up to +70° Celsius
- Special models : on request

Way of ordering : **Servo F** - **lever location**

Example: Servo F - **R**