K-THRUST AZIMUTH LEVER

K-Thrust control lever for azimuth thruster with integrated or separate display.

Description:

The K-Thrust lever is a thruster control lever with separate or integrated 4.3” touch display.

All operator functions for the thruster can be collected in one device: setpoint, feedback indication, emergency stop, control position indication, start/stop buttons or other project dependant functions.

LEDs on barrel and knob gives operator a rough setpoint indication during night manoeuvring.

Functional options:
- Separate or integrated display
- Detents and force feedback
- Limited angle, barrel on each 30 degrees
- Flush or top mount
- 0-100 and -100-0 limitation on thrust

Features:

- Redundant hall sensors (galvanic isolated)
- Redundant CAN net for each sensor
- Redundant power on main sensor, single power for backup
- Integrated el motor
- Configurable electronic detents
- Configurable illegal area with force feedback
- RGB LED on knob and scale
- Emergency stop
- 4.3” touch display w/ambient light sensor
- Internal speaker for audible indications/alarms
- Backup button
**TECHNICAL SPECIFICATIONS**

**Supply voltage**
- 2x 18/32 VDC Main (only 405846)
- 1x 18/32 VDC Backup

**Weight of unit**
- 3.3 kg

**Mounting Top**
- 4pcs Top Screws with a nut lock. Max. console plate thickness 10mm

**Mounting Flush**
- 8pcs studs with nut lock. Console plate 5mm± 0.1mm

**Isolation**
- Power Main/Backup: Isolated/float from module chassis.
- Backup isolated from Main.
- CAN: Individually isolated
- Emergency Stop: Isolated

**Power consumption**
- nominal: 5W
- Max: 60W

**IP Code**
- IP22

**Environment tests**
- IACS E10
- IEC 60945

**Mechanical environment**
- 0.7g

**Operational temperature**
- -15°C to +70°C

**Storage temperature**
- -25°C to +70°C

**Max relative humidity**
- 96% non-condensing

**Connections, pluggable**
- Power 4 terminals
- CAN bus 4 terminals
- Emergency stop 12 terminals
- Terminals - 2.5mm² with ferrules without plastic collar
  - 1.5mm² with ferrules with plastic collar

**Communication**
- 2CAN ports for communication with Main (only 405846)
- 2CAN ports for communication with Backup
- Display port for communication with separate display (only 416533)

**Type Approval**
To be established with:
DNV GL, LRS, BV, RINA, NK, ABS, KR, MRS(Russia), CCS(China)

**Part number**
- 405846 with display (Flush)
- 416533 without display (Top)