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
- 0 to 90 degrees rotated barrel
- Detents and force feedback
- 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 405842)
- 1x 18/32 VDC Backup

#### Weight of unit
- 3.0 kg

#### Mounting
- 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/floating 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 405842)
- 2CAN ports for communication with Backup
- Display port for communication with separate display (only 416531)

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

#### Part number
- 405842 with display(Flush)
- 416531 without display(Top)

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**Flush mount with display**

**Top mount without display**

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