K-THRUST DUAL LEVER





K-THRUST DUAL PROPULSION/TUNNEL LEVER

K-Thrust control lever for dual propulsion or tunnel with integrated or separate display.

Description:

The K-Thrust lever is a thruster control lever with two separate or one 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 or 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

Supply voltage each Thruster

- 2x 18/32 VDC Dual Main (only 405844)
- 1x 18/32 VDC Dual 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/floating from module chassis.
- · Backup isolated from Main.
- · CAN: Individually isolated
- · Emergency Stop: Isolated

Power consumption each Thruster

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 each Thruster

- 2CAN ports for communication with Main (only 405844)
- 2CAN ports for communication with Backup
- Display port for communication with separate display (only 416532)

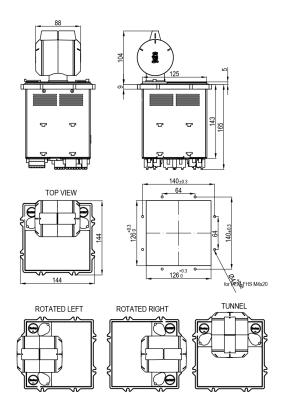
Type Approval

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

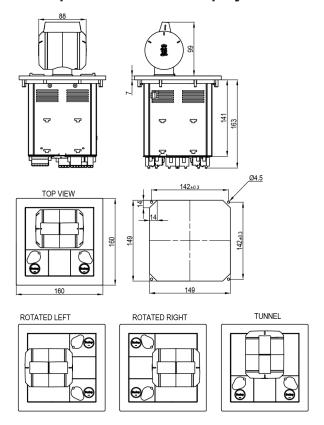
Part number

- 405844 with display (Flush)
- 416532 without display (Top)

Flush mount With display



Top mount without display



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