K-THRUST SINGLE LEVER

K-THRUST SINGLE PROPULSION/TUNNEL LEVER

K-Thrust control lever for single propulsion or tunnel 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
- 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
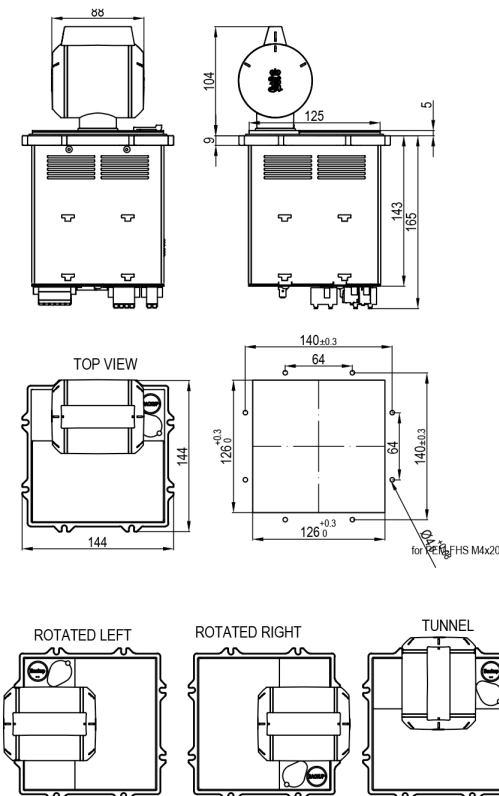- Display port for communication with separate display (only 416531)

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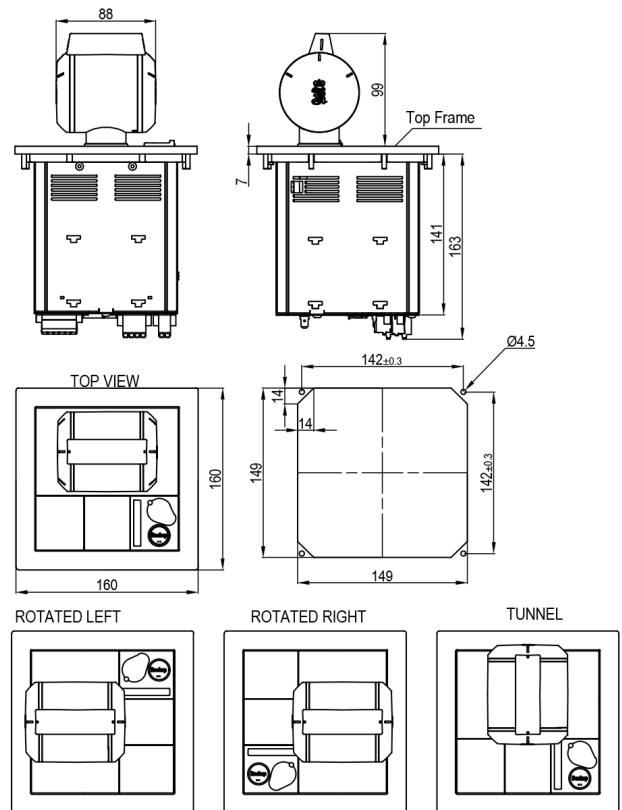DNV GL, LRS, BV, RINA, NK, ABS, KR, MRS(Russia), CCS(China)

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

Flush mount with display

Top mount without display

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