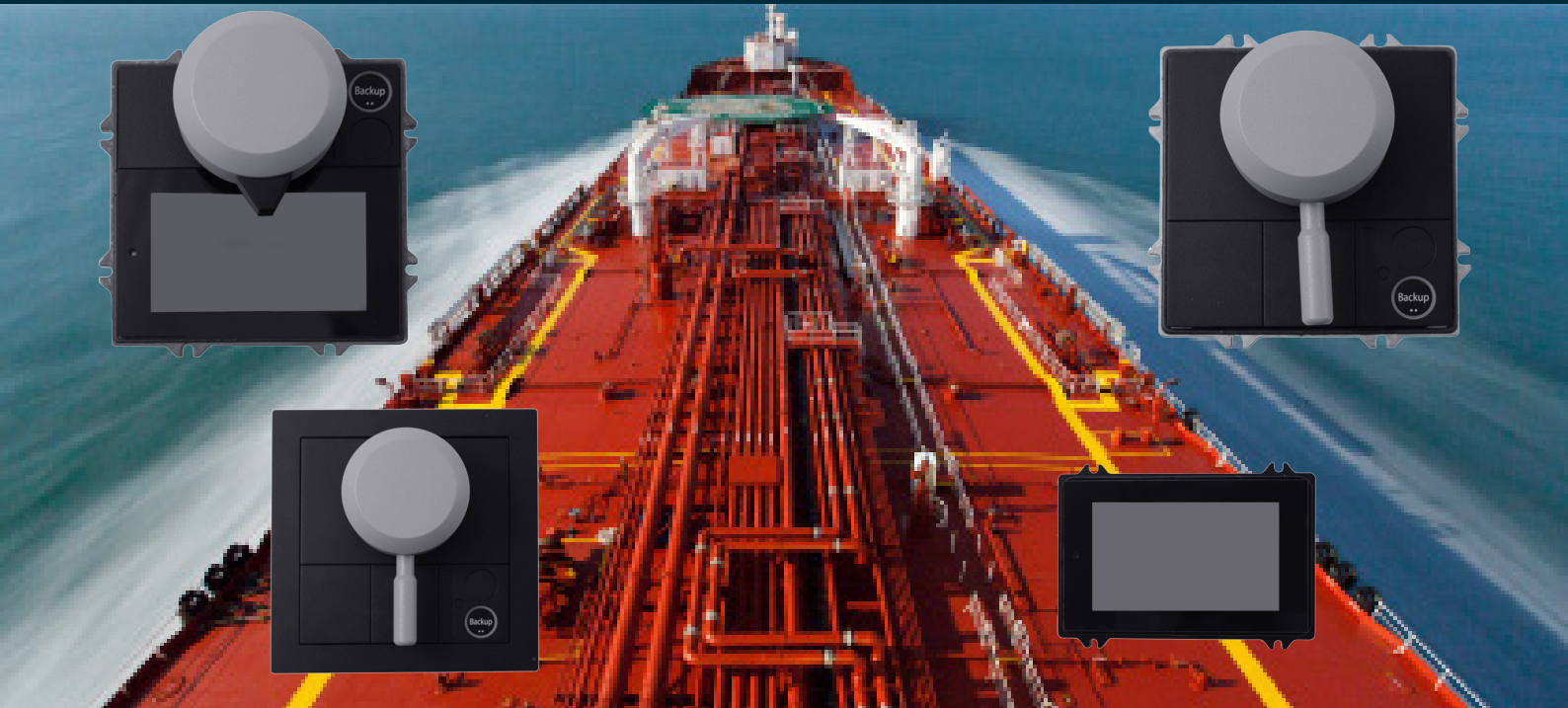


# K-THRUST MINI WHEEL



KONGSBERG



## K-THRUST MINI WHEEL

K-Thrust Mini Wheel for rudder/thruster control with integrated or separate display.

### Description:

The K-Thrust Mini Wheel is a wheel with separate or integrated 4.3" touch display.

All operator functions for the rudder can be collected in one device: setpoint, feedback indication, control position indication or other project-dependent functions.

Functional options:

- Separate or integrated display
- Detents and force feedback
- Limited angle, wheel on each 30 degrees
- Flush or top mount
- Tiller top

### Features:

- Redundant hall sensors (galvanically isolated)
- Redundant CAN net for each sensor
- Redundant power on main sensor, single power for backup
- Integrated electric motor
- Configurable electronic detents
- Configurable illegal area with force feedback
- 4.3" touch display with ambient light sensor
- Internal speaker for audible indications/alarms
- Backup button

# TECHNICAL SPECIFICATIONS

## Supply voltage

- 2x 18/32 VDC main (only 412364)
- 1x 18/32 VDC backup

## Weight of unit

- 3.2 kg

## Mounting Top

- 4 pcs top screws with a nut lock.
- Max. console plate thickness 10 mm

## Mounting Flush

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

## Isolation

- Power main/backup: Isolated/floating from module chassis
- Backup isolated from main
- CAN: Individually isolated

## Power consumption

Nominal: 5 W  
Max: 60 W

## IP Code

- IP22

## Environment tests

- IACS E10
- IEC 60945

## Mechanical environment

- 0.7 g

## 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
- Terminals
  - 2.5 mm<sup>2</sup> with ferrules without plastic collar
  - 1.5 mm<sup>2</sup> with ferrules with plastic collar

## Communication

- 2 CAN ports for communication with main (only 412364)
- 2 CAN ports for communication with backup
- Display port for communication with separate display (only 417835)

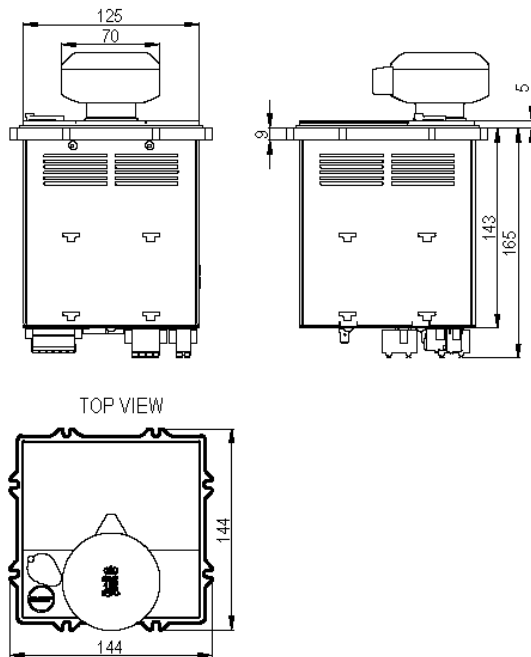
## Type Approval

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

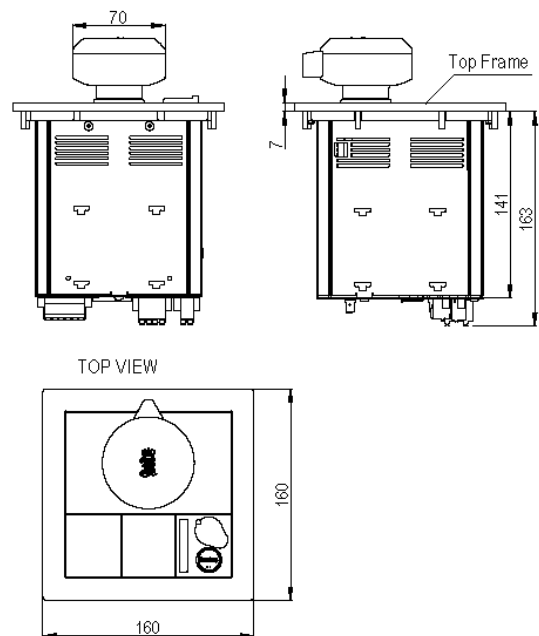
## Part numbers

- 412364 Mini Wheel K-Thrust w/display
- 417835 Mini Wheel K-Thrust

## Flush Mount with display



## Top Mount without display



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