

K-Chief

Integrated Navigation Panel – INP



KONGSBERG



General description

The Integrated Navigation Panel (INP) is a specially designed operator panel for the K-Chief Alarm Monitoring and Control System (AMCS) in the bridge environment. The INP panel is supplied with back light to be visible on dimmed bridge.

To fully replace the standard CRP panel used in engine the ALC panel has added for alarm and command functions.

The INP panel is divided in separate function areas:

Input: Numeric input, navigation buttons and alpha mode for inserting text in the application.

Track ball: Optical track ball with arrow buttons and operation buttons in the “sculpture” around.

Functions

- Easy navigation through new GUI on the K-Chief, with use of the integrated tracker ball
- Internal self check with alarm
- Trackball, three-button type with four integrated arrow buttons
- Power indication
- Easy from the top console installation,
- I/O for interface
- Backlight for used on bridge

Specification

Supply voltage:

18 - 32 V DC ± 5 % ripple.

Power consumption:

20 W maximum, depends on equipment connected to USB HUB. Nominal 10W

Ambient operational temperature:

-25°C to +70°C

Max. relative. Humidity:

96% non-condensing.

Ambient storage temperature:

25°C to +70°C in a dry area with approx. 70% humidity.

Housing:

Aluminium.

Weight of unit:

1.0 kg.

Dimensions:

Width 259mm Height 130 mm Depth 80 mm.

Panel cut-out:

With 236 mm Height 120 mm

Mounting:

Flush mount, from top.

Shock and vibration:

DnV Class B, IACS E10, IEC 60945

EMC properties:

According to IACS E10, IEC 60945

Isolation:

- Power Complete isolated: (DC/DC Converter)
- I/O: Dry contact DO/DI
- Chassis used as 0 Volt reference

Communication Interfaces:

- USB2 HID

Ingress protection:

IP 22

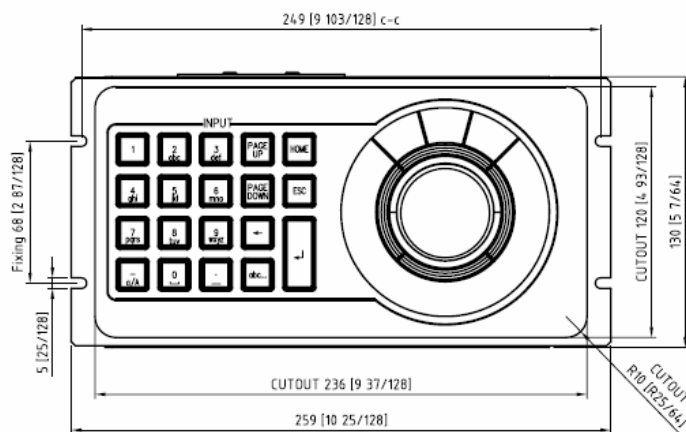
Signal types:

- 2 channels Relay output, changeover contacts. Max 3A 24V DC inductive load
- 4 channels digital inputs dry contacts
- 2 channels analog input 0-5V for dimming
- 1 channel PWM output for dimming of other equipment

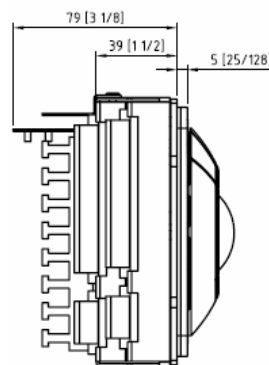
Accuracy: Analogue input ± 1 %

BIST (Built In Self Test): Module temperature

FRONT VIEW



SIDE VIEW



NOTES

GENERAL TOLERANCES : ± 0.2 mm [1/128inch]
 CUTOUT TOLERANCES : -0 +0.4mm [+2/128inch]
 INGRESS PROTECTION : IP22
 WEIGHT : 1.0kg [2.2lbs]
 COLOUR : BLACK
 REAR MOUNTING IN CONSOLE PLATE.
 CONNECTION X1 : SIGNAL
 X2 : PWM
 X3 : USB B
 X4-X8 : USB A
 X10 : 24V DC
 POWER CONSUMPTION : 10W nom
 : 20W max

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