



MACCS 8L

Water ingress detection

PRESENTATION



- ▶ MACCS_8L, is a safety device capable of monitoring 1 to 8 water level detectors (MARINELEC reference: VIGIFLO_B_SL).
- ▶ The product is designed to ensure reliable and secure water ingress detection on small to medium sized vessels.
- ▶ It is approved French Merchant Marine according to the new division 361 (Ed. 01/2018) which applies in particular but not limited to fishing vessels up to 24 meters.

FUNCTIONAL CHARACTERISTICS

Equipment presentation

- ▶ MACCS 8L is a device designed to detect and signal water ingress alarms on vessels. The product is composed of a compact visual and sound signalling panel (MACCS_LED) and an 8 channel acquisition card (MACCS_CPU).
- ▶ It offers a quick set up and very simple and intuitive use, without programming.

MACCS_CPU

- ▶ Central processor of the system ensuring the management of power supplies and input channels.
- ▶ Management of the 2 power sources (main / emergency).
- ▶ Direct connection to MACCS_LED via 3m CAT6 network cable supplied (24VDC power supply + RS485 signals)
- ▶ 8 inputs for water level detectors with line monitoring, VIGIFLO_B_SL type (not included in delivery)
- ▶ 1 output powered 24V/0.5A to control visual and audible alarm devices.
- ▶ Faults alarm buzzer

MACCS_LED

- ▶ 8 channel LED interface.
- ▶ 1 24VDC power input available on RJ45 base.
- ▶ Integrated buzzer.
- ▶ Multi-language display (French, English)
- ▶ Channel identification by customizable labels.

Functions

- ▶ Configuration by microswitches located at the back of MACCS_LED
- ▶ Management of 2 power sources 9-32VDC with alarm
- ▶ Configurable parameters according to the chosen configuration :
 - Normally Open / Normally Closed
 - With monitoring (MMF obligation) / Without line monitoring
- ▶ Time delay 0/10/20/30s
- ▶ Distinction between acknowledged and unacknowledged alarms
- ▶ Detection of short circuits and detection line breaks (MACCS_LED)

APPROVALS

- ▶ MMF





MECHANICAL CHARACTERISTICS



Dimensions (LxIxH) and weights

- ▶ MACCS_LED: 110 x 110 x 44,5 mm 0.2 Kg
- ▶ MACCS_CPU: 168 x 133 x 40 mm 0.5 Kg

Mounting

- ▶ MACCS_LED: Built-in mounting in console / cabinet
- ▶ MACCS_CPU: Symmetrical DIN rail mounting

ELECTRICAL CHARACTERISTICS

Main power supply

- ▶ 12 VDC / 24 VDC (-25% +30%), 1A max

Emergency power supply

- ▶ 12 VDC / 24 VDC (-25% +30%), 1A max

Power supply switchover

- ▶ Automatic with alarms

Power supply protection

- ▶ By diode and fuse

Consumption max.

- ▶ MACCS_LED : 0.5A @24 VDC
- ▶ MACCS_CPU : 1A @24VDC

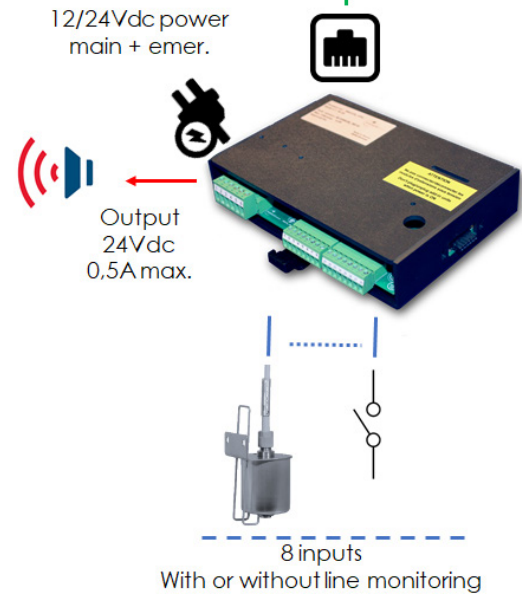
Outputs capacity

- ▶ Power supply output 24VDC : 1A
- ▶ Audible and luminous alarm outputs: 0.5A

Connection

- ▶ Coded pluggable terminal blocks (MACCS_CPU)
- ▶ Cable max. section 1,5mm² (power supplies) 1mm² (inputs-outputs)
- ▶ Network cable RJ45 provided (3m)

CONNECTION OVERVIEW



ENVIRONMENTAL CONDITIONS



Temperature limits

- ▶ +5°C à 55°C (functioning)
- ▶ 0°C à 70°C (storage)



Humidity

- ▶ 95% Humidity max.



Protection rating

- ▶ MACCS_LED: IP44
- ▶ MACCS_CPU: IP20

REFERENCES & OPTIONS

- ▶ SR24_1HE: Multitone red siren 110dB, red base IP66
- ▶ Conventional fire detector (not approved): please contact us.



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sail safely

