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ELING ELING

ELING Universal 3000RPM 85mm Tachometer with Hour Meter

Model: ELING

1. Product Overview

The ELING Universal Tachometer with Hour Meter is designed to accurately measure engine RPM and track total operating hours. This 85mm gauge features a red backlight for clear visibility and operates on a wide voltage range of 9-32V DC, making it suitable for various applications including marine and automotive vehicles.



Image 1.1: Front view of the ELING Universal Tachometer with red backlight activated.

Key features include:

- **RPM Display:** Displays engine revolutions per minute up to 3000 RPM.
- **Hour Meter:** Tracks total operating hours (non-resettable).
- **Voltage Compatibility:** Operates on 9-32V DC (suitable for 12V and 24V systems).
- **Backlight:** Features a red backlight for enhanced visibility in low-light conditions.
- **Durability:** 100% waterproof and anti-fog protection.
- **Engine Compatibility:** Suitable for both diesel and gasoline engines.

2. Safety Information

Before installation and operation, please read all instructions carefully. Improper installation can lead to product damage or vehicle malfunction. Always disconnect the vehicle's battery before performing any electrical work.

- Ensure the power supply matches the specified voltage range (9-32V DC).

- Avoid exposing the gauge to extreme temperatures or harsh chemicals.
- Professional installation is recommended for optimal performance and safety.

3. Package Contents

Verify that all components are present in the package:

- ELING Universal Tachometer with Hour Meter
- Wiring Harness
- Mounting Bracket and Nuts
- Owner's Manual



Image 3.1: The tachometer, wiring harness, and owner's manual included in the package.

4. Installation and Setup

Follow these steps for proper installation of your tachometer:

1. **Prepare Mounting Hole:** Open an 85 mm dimension and a 70 mm deep hole in your dashboard or mounting panel. Ensure sufficient space behind the panel for wiring.
2. **Insert Gauge:** Carefully insert the tachometer into the prepared hole.

3. **Secure Gauge:** Use the provided M4 nuts and C-type bracket to firmly secure the gauge from the rear of the panel.



Image 4.1: Rear view of the tachometer showing the wiring connection port and mounting studs.

4.1 Wiring Connections

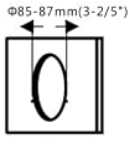
Connect the wiring harness according to the following diagram:

- **Red Wire:** Connect to 9-32V DC power supply (+).
- **Blue Wire:** Connect to Ground (-).
- **Orange Wire:** Connect to Backlight (+).
- **Black Wire:** Connect to Sensor Signal.

The tachometer can receive signals from the engine, ignition coil, crankshaft sensor, or a separate tachometer sensor (sold separately, e.g., ASIN B07WPXL7WQ or B07WPXFH34).

OWNER'S MANUAL

106-00093-01 ECP



A

如A图，在准备安装仪表面板上开孔Φ85~87mm,
并保证面板后面有至少70mm的空间。

Pic A：Before installation , firstly ,to open a hole (Dia:85~87mm) of the panel, make sure there is a space with (70mm backyard of panel) as well



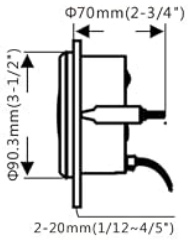
B

如B图，将仪表放入开好孔的仪表面板中
PicB: Put the gauge in the hole



C

如C图，用M4螺母和C型固定扣将仪表锁紧在仪表面板上
Pic C: Using M4 nut and C type bracket to seal up the gauge



D

如D图，关于外形尺寸的标注说明
Pic D: Size and annotations

速比调整：

1)按住仪表黑色橡胶按键3秒，进入速比设置模式，如果松开按键3秒，退出速比设置模式，并自动保存所设置的数据.

2)进入设置模式后,按住按键数值一直增加,松开按键,再按住按键,数字一直递减; 速比调整范围:
1-300，调整到您想要的速比值,松开按键3秒,数字自动保存,1-12速比之间,步进值0.1,12-300速比之间,步进值0.5.

3)如果您的传感器安装在飞轮盘上,速比值等于发动机齿轮数; 如果转速信号取自W点信号, 速比值等于电极数的一半(Poles/2)

典型速比设置参考：

舷外机	
电极数	速比
4	2
6	3
8	4
10	5
12	6

舷内机或汽油机		
气缸数	冲程	速比
4	4	2
6	4	3
8	4	4
10	4	5
12	4	6

柴油发动机	
飞轮齿轮数	速比
速比=发动机飞轮齿轮数	



表示设置速比=96

Speed ratio adjustment:

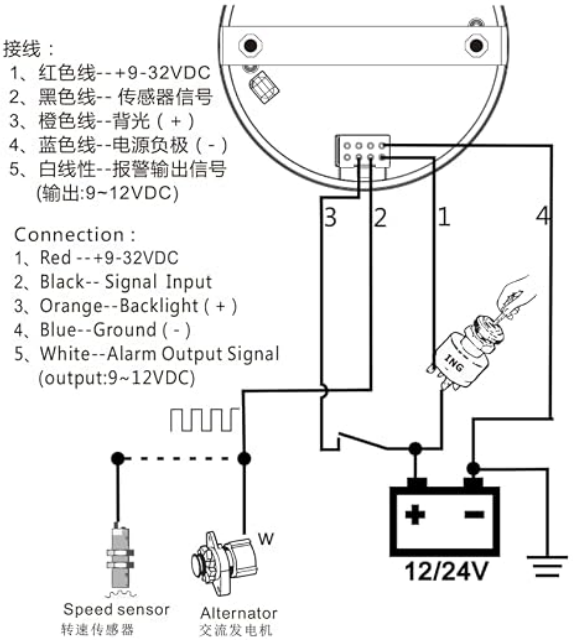
1)Press the black rubber button on the instrument for 3 seconds, then it will enter into the speed ratio setup mode, if the button is released for 3 seconds, it will exit the speed ratio setup mode, and automatically retain the setting data.

2)After entering the setup mode, press the button, the value will be increasing, and release the button, then press it again, the number will be decreasing; the adjustment range of speed ratio : 1-300, The stepping value is 0.1 for the range 1-12 and 0.5 for range 12-300. Adjust the ratio value to what you want, then release the button for 3 seconds, the digital automatic will automatically save.

3)If your transmitter is installed on the flywheel, the ratio value is equal to the number of the engine gear; if the speed signals come from w point signal, the ratio value is equal to half electrodeplate (Poles/2). If it is the gasoline engine, the speed ratio is equal to the number of cylinders (cylinder/2).

接线：
1、红色线--+9-32VDC
2、黑色线-- 传感器信号
3、橙色线--背光（+）
4、蓝色线--电源负极（-）
5、白线性--报警输出信号
(输出:9~12VDC)

Connection :
1、Red --+9-32VDC
2、Black-- Signal Input
3、Orange--Backlight (+)
4、Blue--Ground (-)
5、White--Alarm Output Signal
(output:9~12VDC)



E

Wires Connecting

Typical ratio setting reference:

Outboard	
poles	speed ratio
4	2
6	3
8	4
10	5
12	6

Intboard or Gas engine		
cylinder	cycle	speed ratio
4	4	2
6	4	3
8	4	4
10	4	5
12	4	6

Diesel engine	
Gear number	speed ratio
speed ratio=Gear number	



The set speed ratio=96

技术参数：
工作电压：9~32VDC，
工作电流：≤60mA;
工作温度：-30~+75℃
存储温度：-40~+85℃。

Specification :
Operating Voltage : 9~32VDC ,
Operating current : ≤60mA;
Operating temperature : -30~+75℃
Storage temperature : -40~+85℃。

Image 4.2: Excerpt from the owner's manual showing detailed wiring connections and speed ratio adjustment instructions.

5. OPERATION

5.1 Power On

Once correctly wired, the tachometer will power on with the vehicle's ignition. The red backlight will illuminate, and the RPM needle will indicate the engine speed. The digital display will show the total operating hours.

5.2 Setting Speed Ratio

The speed ratio (pulse per revolution) is adjustable from 1 to 300 to match your engine's signal output. This setting is crucial for accurate RPM readings.

1. **Enter Setup Mode:** Press and hold the black button located on the back of the gauge for 3 seconds. The LCD will display 'H-XXX.X' (e.g., H-015.0), indicating the current speed ratio setting.
2. **Adjust Value:** Press the button again to increment the value. The value will jump by 0.5 with each press. The range is 1-300.
3. **Save Setting:** Once the desired speed ratio is displayed, release the button. The gauge will automatically save the setting after 3 seconds of inactivity.

Note: The idle speed is typically between 600-800 RPM. Refer to your engine's owner's manual for the correct speed ratio or pulse per revolution value. For gasoline engines, the speed ratio is typically equal to the number of cylinders divided by 2.

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