

Wire Rope Defect Detector

This wire rope flaw detector is designed to quantitatively detect hidden threats to wire rope safety, including internal and external broken wires, local fatigue, wear corrosion, and structural distortion. It is a portable instrument designed for non-destructive testing of steel wire ropes using electromagnetic principles.



Product Overview

Professional Wire Rope Inspection

This portable wire rope defect detector utilizes electromagnetic induction technology to perform non-destructive testing on critical steel ropes. Designed to identify internal and external flaws such as broken wires, corrosion, and wear, it ensures maximum safety in demanding industrial environments like mining, cranes, and elevator systems. The instrument provides real-time data visualization through an integrated interface, offering high-speed detection capabilities with exceptional accuracy.

Key Performance Metrics

Operating Statistics

85 dB

Signal-Noise-Ratio

0.5 ms

Response Time

10000 m

Non-stop Detection Limit

27000 hours

Sensor Working Life

Technical Specifications

Environment

- Temperature range: -20 C to +40 C
- Relative Humidity: < 95% RH (at 25 C)

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|-----------------------|-------|
| Detection Uncertainty | 1.2 % |
| Sensor Gap | 30 mm |
| Sensor Power | 50 mW |

System Capabilities

Inspection Capabilities

| Parameter | Value |
|--------------------|-----------|
| Detection Speed | 400 m/min |
| Detection Accuracy | 0.2 mm |
| Detection Range | 20-60 mm |
| Power Voltage | 220V |

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|---------------|--------------------------|
| Alert Methods | Sound Alarm, Light Alarm |
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