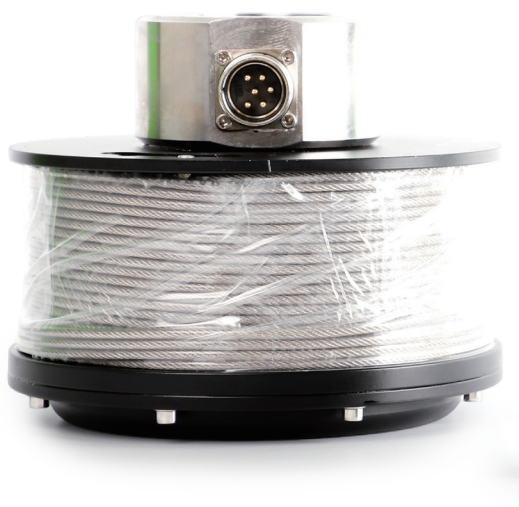


Rock Drill Accessories



| Wire rope displacement sensor



| Depth sensor



| Angle sensor

Product Introduction

ELE Sensor's rotary angle sensors are domestic industrial-grade products featuring high reliability, resistance to harsh environments, and excellent cost-effectiveness.

They cover incremental and absolute types (single-turn / multi-turn), suitable for industrial automation, construction machinery, wind power and other applications.

ELE Sensor specializes in the R&D and manufacturing of industrial sensors, with encoders as its core product line.

Positioned for domestic substitution of imported products, it emphasizes wide temperature range, high protection level and strong vibration resistance, and provides customized solutions.

Features



Safe and reliable



Strong adaptability



High efficiency

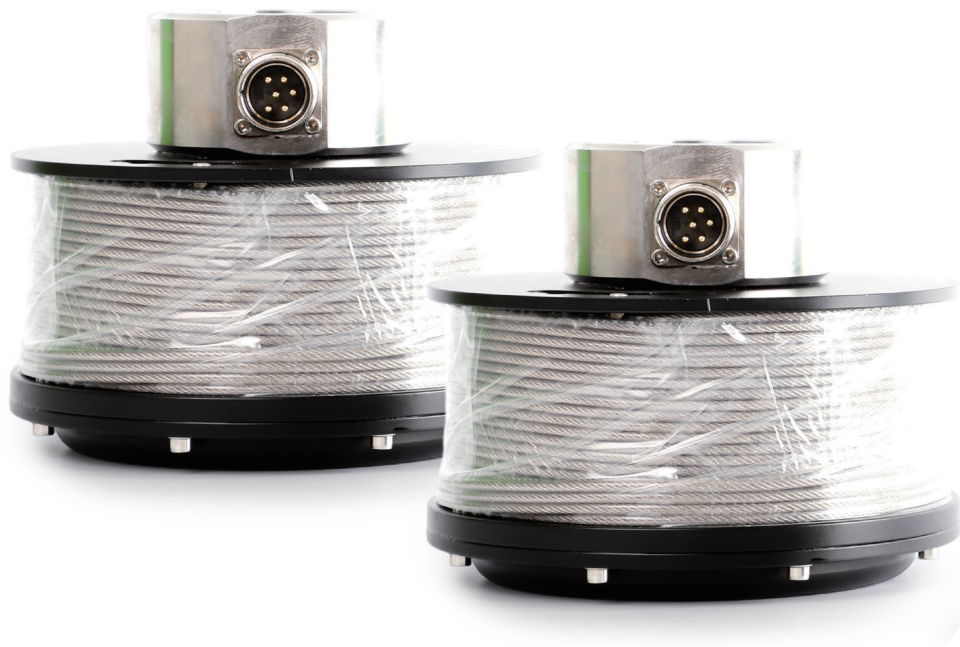


Integrated construction



Suitable for harsh environments

Draw-wire sensor



Technical Parameters		
Measurement Performance	Measuring Range: 20-3000 mm (model-dependent)	Covers propulsion requirements from short distances to long strokes
	Linearity: $\leq \pm 0.5\%FS$	Enables high-precision control for automatic drilling systems
	Resolution	0.1-5 mm
	Repeatability: ± 150 mm	Guarantees long-term measurement stability
Electrical Parameters	Power Supply: 12-24 VDC	Compatible with trolley on-board power supply systems
	Output Signal	Output resistance adjustment
	Interface	Dedicated waterproof connecting cable (M23, 6-pin), IP67 protection rating
Environmental Adaptability	Operating Temperature: -40°C ~ +85°C	Ultra-wide operating temperature range, suitable for harsh underground and open-pit working conditions
	Ingress Protection Rating: IP67	Dustproof, waterproof, oil-resistant and vibration-resistant
	Vibration & Shock Resistance	10-2000 Hz / 100 g (6 ms)
Mechanical Characteristics	Material	Stainless steel / aluminum alloy housing, corrosion resistant
	Installation	Flange/bracket mounting, compatible with propelling beam structures
	Draw Wire	Stainless steel cable, wear-resistant and high tensile strength

Depth Sensor



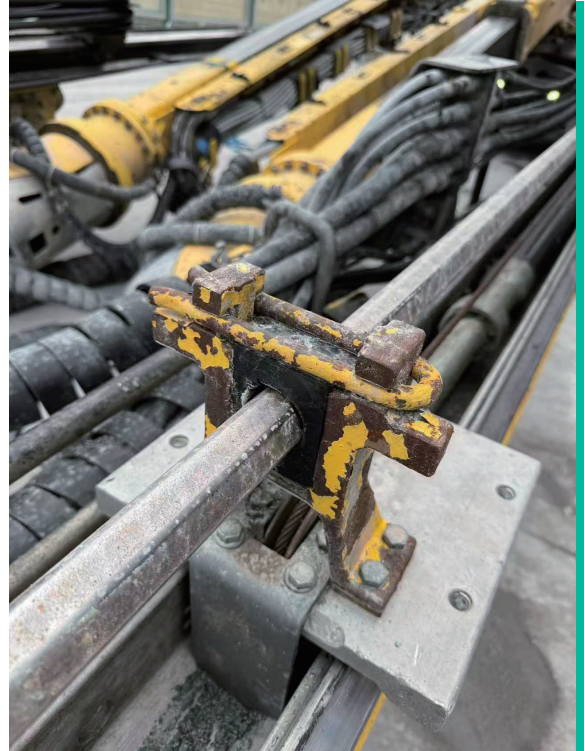
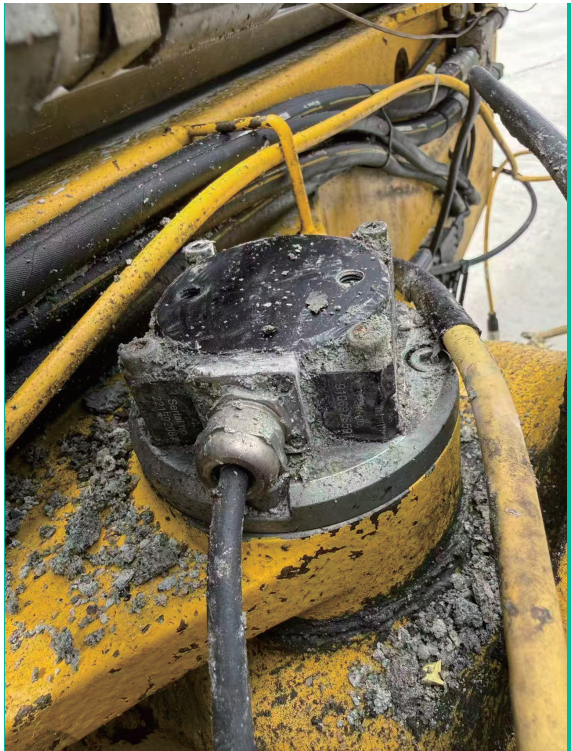
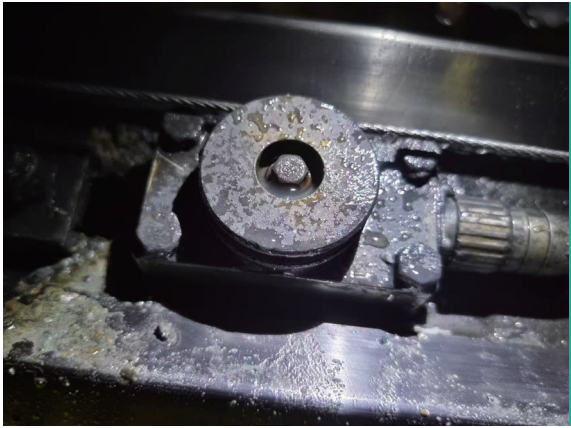
Technical Parameters		
Measurement Performance		Covers propulsion demands ranging from short distances to long strokes
	AB quadrature square wave pulse	Pulse angle deviation: $\pm 30^{\circ}$
Electrical Parameters	Power supply: 12-24 VDC	Compatible with trolley on-board power supply
	Output signal	Incremental AB pulse output
	Interface / Protection grade	Special waterproof connecting cable (M23, 6-pin), IP67 rated
Environmental Adaptability	Operating temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$	Ultra-wide temperature range, applicable to harsh underground and open-pit working conditions
	Vibration and shock resistance	10-2000 Hz / 100 g (6 ms)
Mechanical Properties	Material	Stainless steel / aluminum alloy housing with corrosion resistance
	Installation / Draw wire	Flange or bracket mounting; stainless steel cable featuring excellent wear resistance

Angle Sensor



Technical Parameters	
Measurement Performance	Single-axis: +15% / +30% / ±90°; 3D / Multi-turn: 0-360°
Accuracy	±0.05° to ±0.1° (Resolver / Magnetic Sensor); ±0.1%FS (Inclinometer)
Resolution	0.001° to 0.01° (Digital type); 0.05° (Analog type)
Repeatability	±0.02° to ±0.05°
Response Time	≤10 ms (without filtering)
System Compatibility	Output Signal
	Power Supply
Interface	M12 8-pin waterproof cable, cable length 368 mm / M23 connector
Protection Grade	IP67 (IP69K for partial models)
Operating Temperature	-40°C ~ +85°C
Vibration & Shock Resistance	10-2000 Hz / 100 g (6 ms)
Material	Aluminum alloy / stainless steel housing, corrosion-resistant
Installation	Flange / bracket / sleeve mounting, compatible with drill arm structure
Service Life	Non-contact design, service life exceeding 10 million cycles, wear-free

Application Scenarios



Zhejiang Yiluyi Sensor Co., Ltd.

☎ 0577-6283 3666

🌐 www.elesenson.com

✉ info@elesenson.com

📍 No. 7 Xingtang Road, Tangxia Industrial Zone,
Yueqing City, Zhejiang Province



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