

B2 Textile Sensor

Product Selection Guide



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ELEsenson

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B2 Textile Sensor



Product Introduction

ELEsenson textile sensor effectively detects yarn breakage on sewing machines. Once yarn breakage occurs during sewing, the sensor immediately triggers the sewing machine to stop. Featuring strong dust-resistance, it works with all types and grades of yarns.

This textile sensor monitors sewing-thread tension as well as detecting yarn breakage. It helps operators keep yarn tension within the optimal range, greatly improving sewing efficiency and product quality.

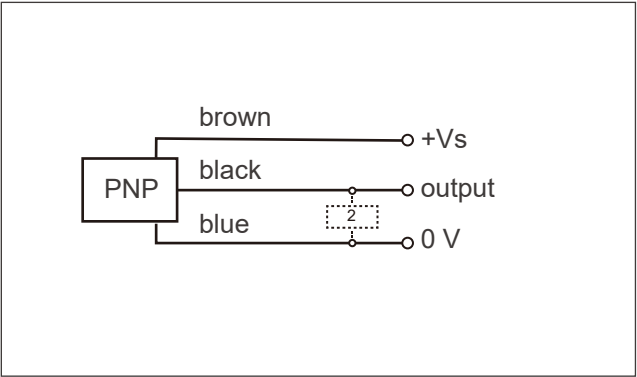
Features

- Auto-stop detector
- Compact size
- High sensitivity
- Simple & easy-to-use
- Robust & reliable
- Excellent dust-resistance

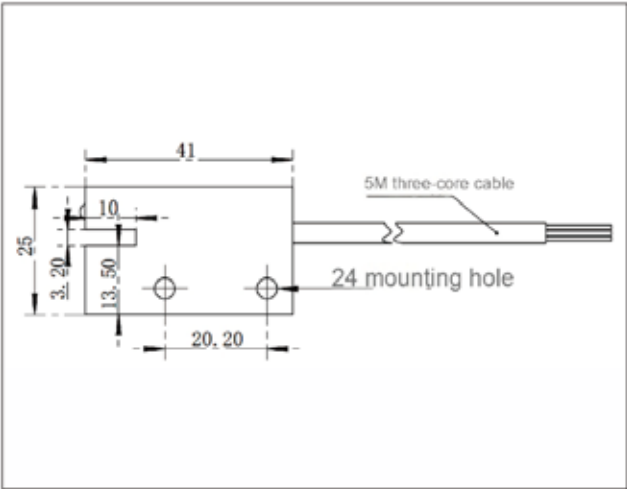
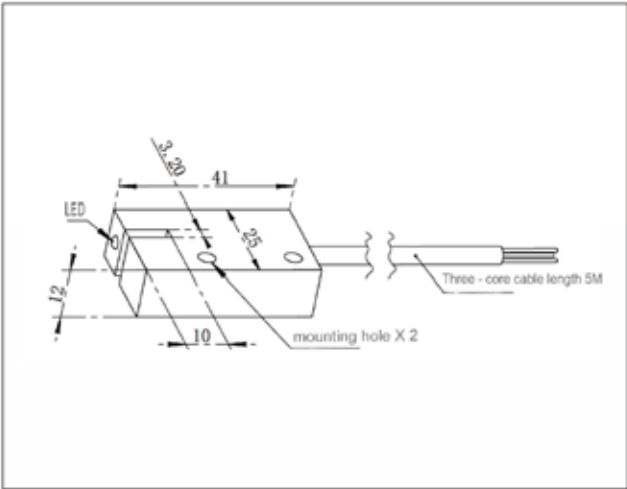
Specifications

Item	Specifications
Sensing Distance	3mm
Detecting Frequency	10kHz
Detectable Speed Range	1 ... 20000 rpm (with matched gear)
Operating Voltage	6...24VDC
Quiescent Supply Current	≤30mA
Max. Output Current	≤200mA
Output Low-level Voltage	≤0.5VDC
Rise Time	≤2us
Fall Time	≤2us
Output Type	PNP.NO
Protection	Reverse-voltage protection & output short-circuit protection
Operating Temperature	-20℃...+75℃
Module	m≥1
Gear Tooth Thickness	≥0.1mm
Tooth Profile	Involute or straight trapezoidal teeth
Gear Material	Magnetic-conductive material (e.g. 45# steel)
Housing Material	Aluminum
Wiring Cable	PVC, 5 m length
Weight	300g
Compliance Standard	CE
Applicable Machine Models	Rieter Draw Frame: B2, B90, B4, B50, D35C, D401C

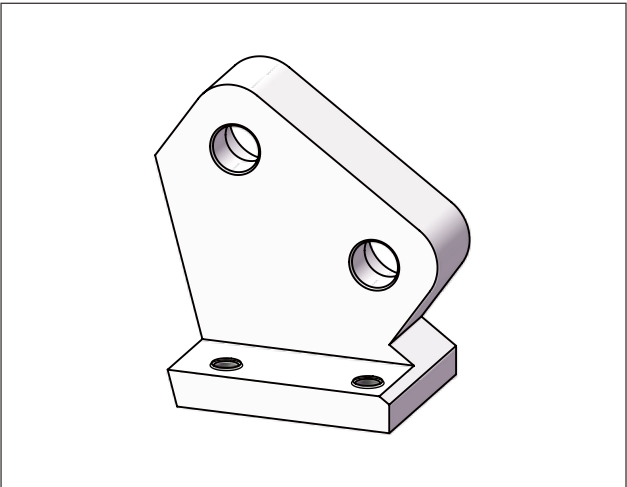
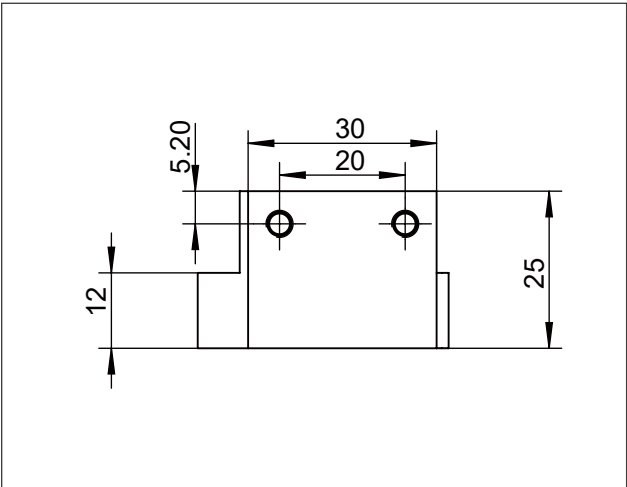
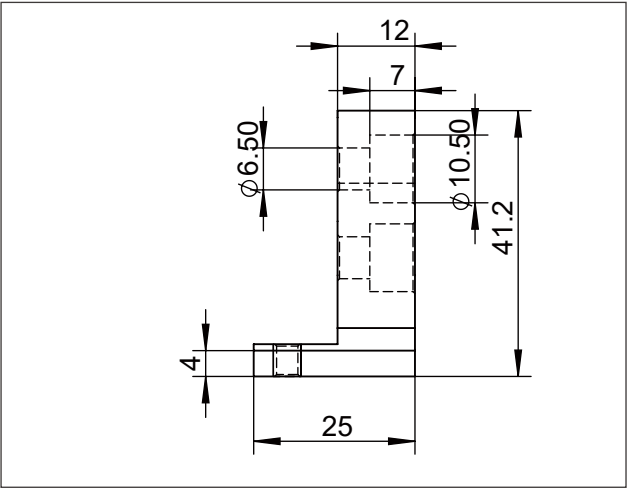
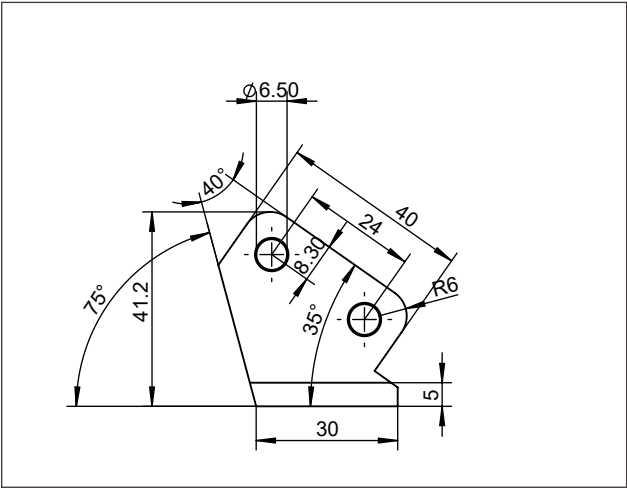
Wiring Diagram Description



— Dimension Drawing



— B2 Textile Frame Dimensions



COMPANY PROFILE



ELEsenson focuses on R&D, manufacturing and sales of sensors. We have a high-caliber, innovative technical team. Pursuing continuous technical improvement, we deliver high-performance, reliable sensor products for customers.

Our broad product portfolio covers multiple industries including industrial automation, smart home and automotive electronics. Our products are well-received for precise measurement, stable performance and outstanding durability.

During production, strict quality-control procedures guarantee premium quality for every unit leaving our factory. We maintain close cooperation with customers, deeply understanding requirements and delivering customized solutions for special-scenario demands.

ELEsenson regards innovation as core driving force. Continuous investment in R&D and product upgrades. With professional teams, premium products and thoughtful service, Zhejiang ELEsenson Sensors has built solid reputation in the industry, contributing technical strength to the advancement of multiple sectors.

10+	300+	15+	20+
Product Series	Product Types	Honors & Certifications	Market Layout Regions

■ Corporate Culture

— Vision

Uphold conviction, reach new heights of sensor-technology development.
Build a globally-leading sensor enterprise and lead industry progress through technological innovation.

— Mission

Drive development through innovation, win trust by quality.
Supply precise,stable,durable and reliable sensor products plus customized solutions for industrial automation, rail transit, automotive electronics and other industries.

— Core Values

Customer-Oriented, Integrity-Based, Innovation-Driven, Quality-First.
We are customer-demand oriented, operate with integrity, pursue innovation and strive for superior product & service quality.

CORE ADVANTAGES

- 

Professional & Efficient Team

Experienced and skilled personnel providing high-quality service & technical support.
- 

Strong R&D Capability

Advanced R&D equipment & specialist team to develop innovative, competitive products.
- 

Complete After-Sales Support System

Timely response to customer requests, comprehensive technical support & solutions to maximize customer satisfaction.



HONORS AND QUALIFICATIONS



Brief Product Catalog | English Version | Issue 1, 2025

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Revised versions are available for download from our official website

<https://www.elesenson.net>