

Bernet High Sensitivity Circular Pulse Output Signal Magnetic Sensor for Fuel Dispenser

Our Product Introduction

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Basic Information

- Place of Origin: Anhui China
- Brand Name: BERNET
- Certification: ISO9001, ATEX, UL, MID, OIML
- Model Number: BNT-YS01
- Minimum Order Quantity: 5
- Price: US dollar \$15.00-\$22.00
- Packaging Details: 10 Pcs per Carton
- Delivery Time: 7-25days
- Payment Terms: T/T, L/C, D/A, D/P, Western Union, MoneyGram
- Supply Ability: 1000 Pieces per Month

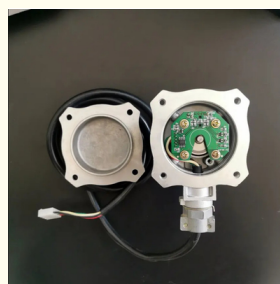


Product Specification

- Material: Aluminum Alloy
- Measuring Range: 0.08~340 M³/h
- Diameter Covering: DN15-DN1500
- Accuracy: 0.2 (high-precision Type)
- Working Pressure: 1.0~6.4 MPa
- Ambient Temperature: -20°C~55°C
- Explosion-proof Class: Ex D IIC T6 Gb
- Highlight: Circular Pulse Output Signal Magnetic Sensor, High Sensitivity Magnetic Sensor, Fuel Dispenser Magnetic Sensor



More Images



Product Description

Product Description

The magnetic sensor is a high-precision volumetric flow meter widely used in liquid flow measurement across petroleum, chemical, and energy industries. It is particularly suited for fuel dispensers handling viscous fluids like diesel and gasoline. Its operating principle involves a pair of elliptical gears rotating to partition fluid into fixed volumetric units, enabling cumulative measurement with excellent repeatability and resistance to interference.

Technical Specifications (General Fuel Dispenser Applications)

Measurement Range: 0.08–340 m³/h, with port sizes from DN15 to DN1500, accommodating diverse flow requirements.

Accuracy Class: Standard grade 0.5, high-precision grade 0.2, and repeatability error as low as ±0.06%, ensuring reliable fuel dispensing.

Media Compatibility:

Viscosity range: 0.3–50,000 mPa·s, supporting high-viscosity liquids (e.g., heavy oil, lubricants).

Temperature resistance: -40°C to +300°C (extended models for extreme conditions).

Structural Design:

Housing materials: Cast iron, cast steel, or stainless steel, with pressure resistance up to 6.4–10 MPa (cast steel), ideal for high-pressure fuel systems.

Protection: IP66/IP67 ingress protection and explosion-proof rating Ex d IIC T6 Gb, ensuring safe operation in humid or flammable environments.

Signal Output: 4–20 mA current, pulse signals, and RS485 communication (MODBUS protocol) for seamless integration with dispenser control systems.

Advantages & Considerations

Strengths: No straight-pipe installation required; vibration-resistant design; optional built-in lithium battery or external power supply for off-grid applications.

Precautions: Install filters to prevent gear blockage by impurities; unsuitable for aerated liquids without additional gas separators.

FAQ

1. who are we?

We are located in Anhui, China, started from 2009, selling to Africa(50.00%), Asia countries(20.00%), Mid East(20.00%), South America(10.00%). There are total about 51-100 people in our company.

2. how can we guarantee quality?

100% testing before delivery.

3. what can you buy from us?

fuel dispenser, LPG dispenser, Adblue dispenser, spare parts for dispensers, tank truck parts, industry fueling machine, petrol machine.

4. why should you buy from us not from other suppliers?

1: we do tooling ourselves.

2: we do casting ourselves.

3: we do CNC matching ourselves.

4: we have professional R&D team.

5: we have professional engineer both on mechanical and electronic.

6: 100% testing with professional device.

5. what services can we provide?

Accepted Delivery Terms: FOB, CFR, CIF

Accepted Payment Currency: USD, EUR and customer local money.

Accepted Payment Type: T/T, L/C, Western Union, Cash;

Language Spoken: English, Chinese, Arabic



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