

E80G Series

Radar Level Sensor

Product Selection Guide



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E80G Series Radar Level Sensor



— Product Introduction

ELEsenson radar level sensor adopts high-frequency electromagnetic wave (80 GHz) for level measurement, featuring high-precision and non-contact measurement. It adapts to level-measurement requirements under various complex working conditions. It is especially suitable for urban waterlogging monitoring, open-channel water-level monitoring, sewage discharge and other scenarios. Widely applied for level and stock-pile measurement of highly-corrosive and high-dust media, it delivers reliable level-monitoring solutions for industrial production and environmental-protection projects.

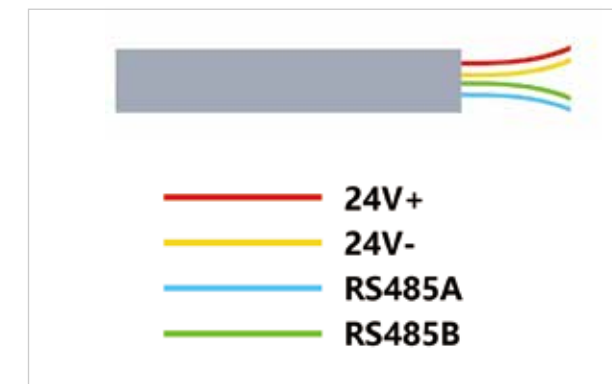
— Features

FMCW (Frequency-Modulated Continuous-Wave) Technology

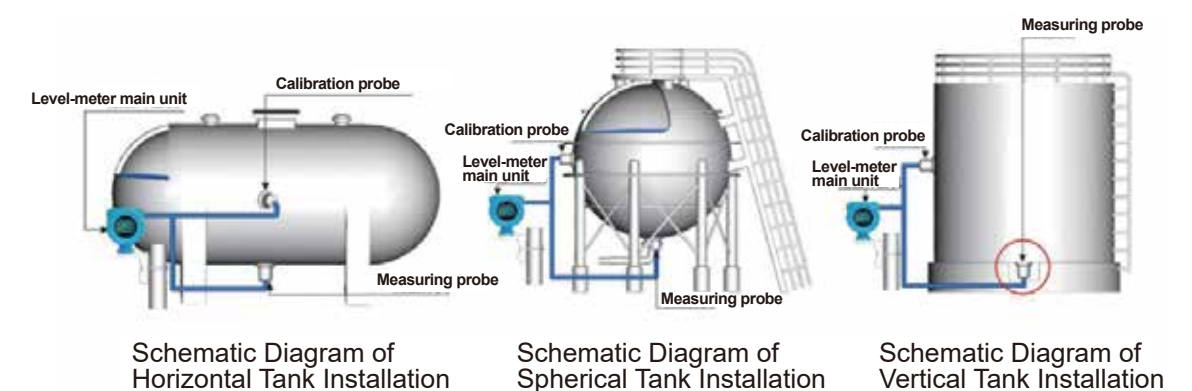
Suitable for liquid-level and solid-stock-pile measurement.

Strong penetration performance, applicable for environments with heavy steam and high dust.

— Wiring Diagram



— Installation Schematic Notes



— 80 GHz Radar Water Level Transmitter (Metal Housing)

Item	Specifications
Power Supply	24VDC
Measuring Range	0...30m
Accuracy	±2mm
Output Signal	4...20mA/Modbus/Rs485
Ambient Temperature	-25℃...60℃
Protection Rating	IP68(1m1h)
Display	Bluetooth Apps for Mobile Phones
Overall Dimension	76mm×120mm
Housing Material	Stainless Steel
Mounting Thread	G2 thread



— 80 GHz Radar Level Transmitter

Item	Specifications
Power Supply	24VDC
Measuring Range	0...30m
Accuracy	±2mm
Output Signal	4...20mA/Modbus/Rs485
Ambient Temperature	-25℃...60℃
Protection Rating	IP68(1m1h)
Display	Bluetooth Apps for Mobile Phones
Overall Dimension	76mm×120mm
Housing Material	Stainless Steel
Mounting Thread	G2 thread



— 80 GHz Digital-display Radar Level Transmitter

Item	Specifications
Power Supply	24VDC, 12VDC
Measuring Range	0...30m
Accuracy	±2mm
Output Signal	4...20mA/Modbus/Rs485
Ambient Temperature	-40℃...70℃
Protection Rating	IP67
Display	128×64 dot-matrix LCD, mobile-phone APP support
Overall Dimension	76mm×107mm
Housing Material	PP/ABS



— External-mount Level Switch

Item	Specifications
Applications	Non-contact measurement
Power Supply	24VDC
Output	Relay output (passive contact)
Relay Capacity	(30VDC 6A)、(250VAC 6A)
Accuracy	±2mm
Tank-wall Thickness	≤60mm
Vessel Materials	Carbon steel, 16MnR, 304, 316, FRP, hard rubber
Rated Power	3W
Electrical Connection	Die-cast aluminum housing
Explosion-proof Rating	ExdIICT6



— 80 GHz Radar Water Level Transmitter (Metal Housing)

Item	Specifications
Power Supply	24VDC, 12VDC
Measuring Range	0...30m
Accuracy	±2mm
Output Signal	4...20mA/Modbus/Rs485
Ambient Temperature	-40℃...+70℃
Protection Rating	IP68
Display	Bluetooth Apps for Mobile Phones
Overall Dimension	76mm×107mm
Housing Material	Aluminum alloy / Stainless steel

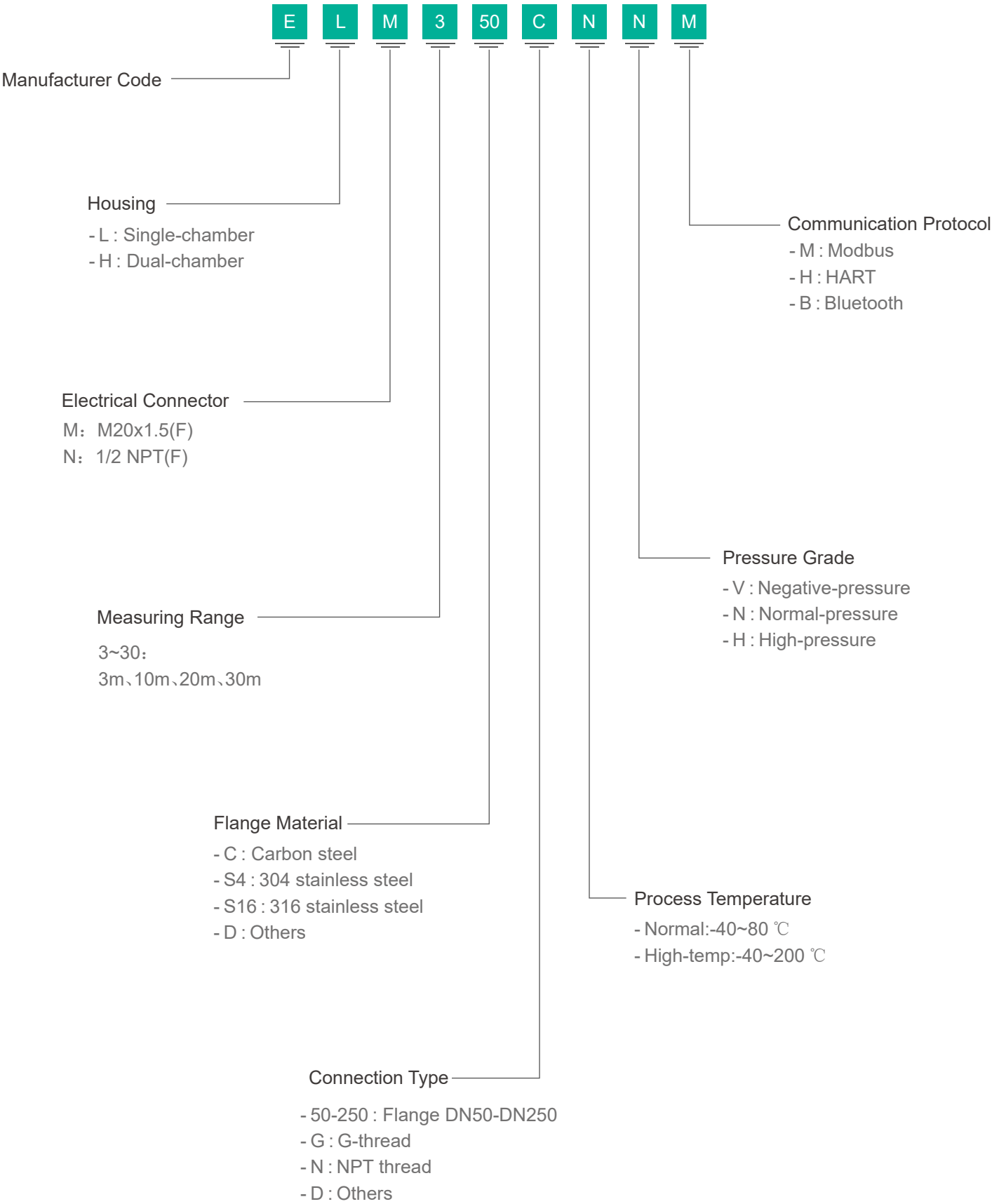


— External-mount Level Switch

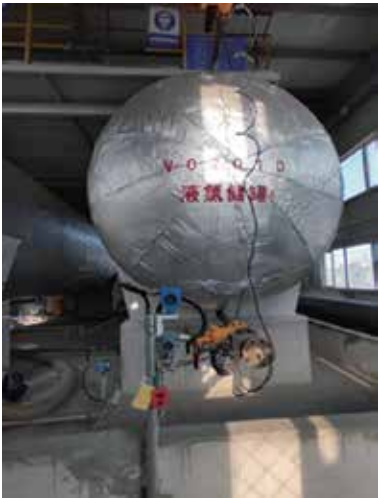
Item	Specifications
Repeatability Error	2mm
Delay Time	0.5s
Input Voltage	9...24VDC
Leakage Current	≤50uA
Output	4±1 mA(dry); 16±1 mA(wet), 2-wire
Sensor Housing Material	钛合金
Operating Temperature	-30℃...+80℃
Working Pressure	<1000psig
Mounting Hole	2-Φ7



— Model Coding Rule



APPLICATIONS CASES



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.

■ Corporate Culture

— Vision

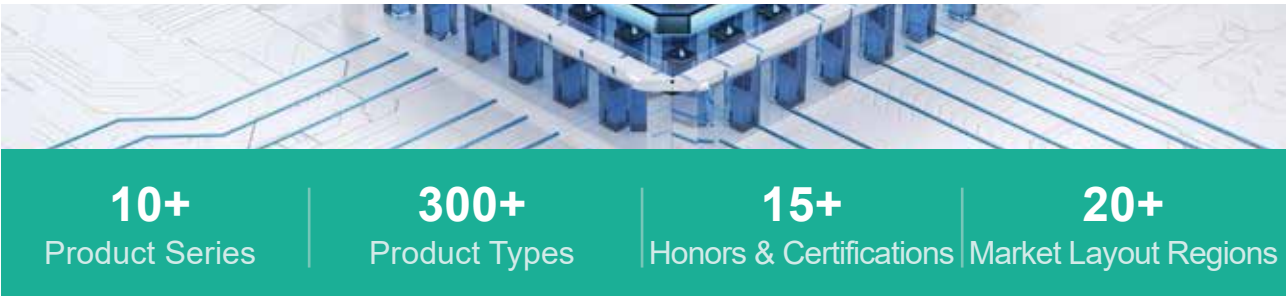
Uphold conviction, reach new heights of sensor-technology development.
Build a globally-leading sensor enterprise and lead industry progress through technological innovation.

— 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

