



DENKI SEIGYO

DPRM30 SERIES

Round Full Metal Inductive Proximity Sensor – M30 Diameter

1. PRODUCT OVERVIEW

The **Denki Seigyo DPRM30 Series** is a premium **full-metal inductive proximity sensor** designed for reliable detection of metallic objects in demanding industrial environments.

Manufactured with a **stainless-steel housing and sensing face**, the sensor offers excellent resistance against mechanical impact, welding spatter, oil, coolant, vibration, and harsh operating conditions.

Available in **DC and AC operating versions**, the DPRM30 Series provides Normally Open (NO) and Normally Closed (NC) output options with cable, pigtail, or connector configurations for maximum installation flexibility. Ideal for automation machinery, conveyors, robotics, packaging equipment, steel plants, and machine tools.

2. MODEL CODE STRUCTURE

Example

DPRM30-D10NO-PC

Code	Description
D	Denki Seigyo
PR	Round Proximity Sensor
M	Full Metal Body
30	M30 Diameter
D / A	DC / AC Type
10	10 mm Sensing Distance
NO	Normally Open
NC	Normally Closed
PC	Pig Tail Cable
C	M12 Connector Type
Blank	Cable Type



3. ORDERING INFORMATION

Model	Supply	Output	Sensing Distance	Connection
DPRM30-D10NO	DC	NO	10 mm	Cable
DPRM30-D10NC	DC	NC	10 mm	Cable
DPRM30-D10NO-PC	DC	NO	10 mm	Pig Tail
DPRM30-D10NC-PC	DC	NC	10 mm	Pig Tail
DPRM30-D10NO-C	DC	NO	10 mm	M12 Connector
DPRM30-D10NC-C	DC	NC	10 mm	M12 Connector
DPRM30-A10NO	AC	NO	10 mm	Cable
DPRM30-A10NC	AC	NC	10 mm	Cable
DPRM30-A10NO-PC	AC	NO	10 mm	Pig Tail
DPRM30-A10NC-PC	AC	NC	10 mm	Pig Tail
DPRM30-A10NO-C	AC	NO	10 mm	M12 Connector
DPRM30-A10NC-C	AC	NC	10 mm	M12 Connector

4. KEY FEATURES

- Full stainless-steel housing and sensing face
- M30 cylindrical design
- 10 mm sensing distance
- Quasi-flush mounting
- DC and AC models available
- Normally Open and Normally Closed outputs
- Cable, Pig Tail and M12 connector versions
- Reverse polarity protection (DC models)
- Short-circuit protection
- LED switching indicator
- High vibration resistance
- Oil and coolant resistant
- Excellent EMI immunity
- IP67 protection

5. TECHNICAL SPECIFICATIONS

General Specifications

Parameter	Specification
Sensor Type	Inductive Proximity Sensor
Housing	Cylindrical
Diameter	M30
Installation	Quasi Flush
Rated Sensing Distance	10 mm
Assured Operating Distance	0–9.7 mm
Standard Target	Iron (Fe)



DC Electrical Specifications

Parameter	Specification
Supply Voltage	10–30 VDC
Output Type	3-Wire
Load Current	200 mA Max
Switching Frequency	500 Hz
Voltage Drop	≤2 V
Leakage Current	≤0.1 mA
Current Consumption	≤10 mA
Indicator	Yellow LED

AC Electrical Specifications

Parameter	Specification
Supply Voltage	90–250 VAC
Output Type	2-Wire
Load Current	5–300 mA
Frequency	50 / 60 Hz
Indicator	Yellow LED

Reduction Factors

Material	Factor
Iron	1.00
Stainless Steel	0.65
Aluminum	0.25
Copper	0.22

Mechanical Specifications

Parameter	Specification
Housing Material	Stainless Steel
Sensing Face	Stainless Steel
Diameter	30 mm
Thread	M30 × 1.5
Protection	IP67
Cable Length	2 m Standard
Connector	M12 4-pin
Mounting	Quasi Flush



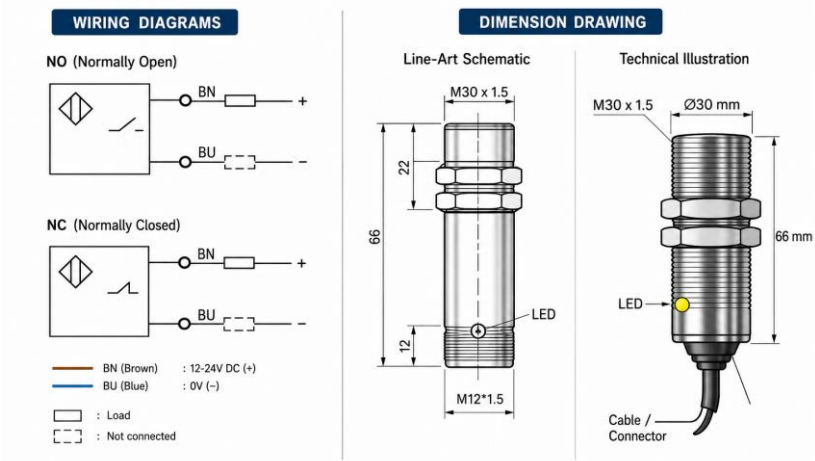
Environmental Specifications

Parameter	Specification
Operating Temperature	−25°C to +70°C
Storage Temperature	−40°C to +85°C
Humidity	35–95% RH
Protection Degree	IP67

6. INDICATOR

LED	Function
Yellow	Output Status

7. WIRING DIAGRAM & DIMENSIONS



8. APPLICATIONS

- Machine Automation
- Automotive Industry
- CNC Machines
- Steel Processing
- Conveyor Systems
- Packaging Machinery
- Robotics
- Material Handling
- Assembly Lines
- Position Detection
- Food & Beverage Equipment

10. PRODUCT SUMMARY

The **Denki Seigyo DPRM30 Series** Full Metal Inductive Proximity Sensors provide robust and reliable metal object detection with a stainless-steel construction, 10 mm sensing distance, and IP67 protection. Available in both DC and AC versions with NO/NC output options and multiple connection types, the DPRM30 Series is engineered for dependable performance in demanding industrial automation environments.