M12 Cylindrical Inductive Proximity Sensor — Factor 1

BIDF-M12-F4.0-PC2-S124 series · Sensing Distance: 4mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **4mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **2000Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M12*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Factor 1: equal sensing distance on all metals
- Detection of copper, iron, aluminum
- Application in the automotive industry

MODEL CODES

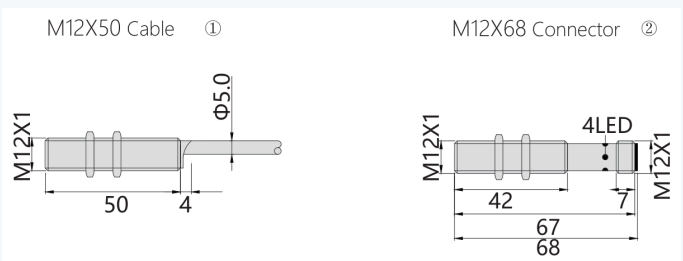
Output Type	①	②
NPN N.O	**BIDF-M12-N11F4.0-PC2** SKU 10103471	**BIDF-M12-N11F4.0-S124** SKU 10103475
NPN N.C	**BIDF-M12-N21F4.0-PC2** SKU 10103472	**BIDF-M12-N21F4.0-S124** SKU 10103476
PNP N.O	**BIDF-M12-P11F4.0-PC2** SKU 10103473	**BIDF-M12-P11F4.0-S124** SKU 10103477
PNP N.C	**BIDF-M12-P21F4.0-PC2** SKU 10103474	**BIDF-M12-P21F4.0-S124** SKU 10103478

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	4mm(Flush)
Switching frequency	2000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PPS
Connection	①: 2m PVC Cable, 3*0.35mm² ②: M12 Connector
Accessories	①: None ②: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.