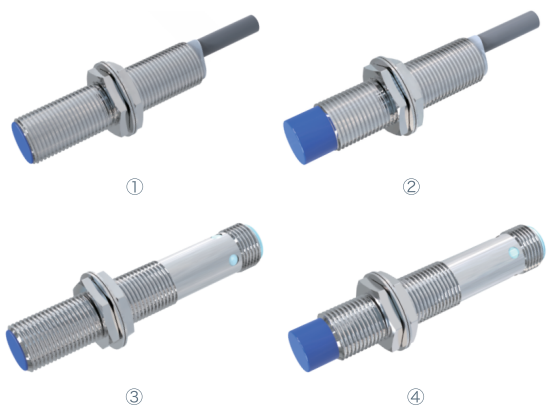
M12 Cylindrical Inductive Proximity Sensor

BIDS-M12-F4.0-N8.0-PC2-S124 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 3000Hz / 500Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE	10...30VDC(±10%)
SWITCHING FREQ.	3000Hz / 500Hz
AMBIENT TEMP.	-25...70°C
HOUSING	M12*1mm
INGRESS PROTECTION	IP67

FEATURES

- Mid-range detection
- Multiple connection options available

MODEL CODES

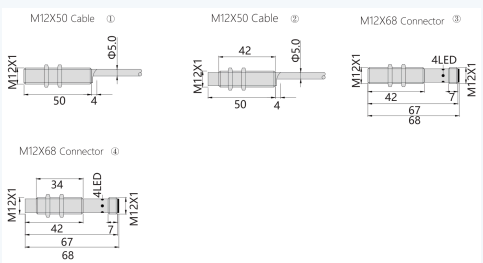
Output Type	①	②	③	④
NPN N.O+N.C	BIDS-M12-N31F4.0-PC2 SKU 10103557	BIDS-M12-N31N8.0-PC2 SKU 10103641	BIDS-M12-N31F4.0-S124 SKU 10103559	BIDS-M12-N31N8.0-S124 SKU 10103643
PNP N.O+N.C	BIDS-M12-P31F4.0-PC2 SKU 10103558	BIDS-M12-P31N8.0-PC2 SKU 10103642	BIDS-M12-P31F4.0-S124 SKU 10103560	BIDS-M12-P31N8.0-S124 SKU 10103644

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	①: 4mm(Flush) ②: 8mm(Non-Flush) ③: 4mm(Flush) ④: 8mm(Non-Flush)
Switching frequency	①: 3000Hz ②: 500Hz ③: 3000Hz ④: 500Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
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	PBT
Connection	①: 2m PVC Cable, 4*0.25mm² ②: 2m PVC Cable, 4*0.25mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.