M12 / M18 / M30 Cylindrical Inductive Proximity Sensor — Factor 1

BIDF-M12-F10-F4.0-F8.0-S124-F series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 2000Hz / 750Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **2000Hz / 750Hz**
AMBIENT TEMP. **-25...70°C**	INGRESS PROTECTION **IP67**

FEATURES

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

MODEL CODES

Output Type	①	②	③
NPN N.O	**BIDF-M12-N11F4.0-S124-F** SKU 10103487	**BIDF-M18-N11F8.0-S124-F** SKU 10103784	**BIDF-M30-N11F10-S124-F** SKU 10104070
NPN N.C	**BIDF-M12-N21F4.0-S124-F** SKU 10103488	**BIDF-M18-N21F8.0-S124-F** SKU 10103785	**BIDF-M30-N21F10-S124-F** SKU 10104071
PNP N.O	**BIDF-M12-P11F4.0-S124-F** SKU 10103489	**BIDF-M18-P11F8.0-S124-F** SKU 10103786	**BIDF-M30-P11F10-S124-F** SKU 10104072
PNP N.C	**BIDF-M12-P21F4.0-S124-F** SKU 10103490	**BIDF-M18-P21F8.0-S124-F** SKU 10103787	**BIDF-M30-P21F10-S124-F** SKU 10104073

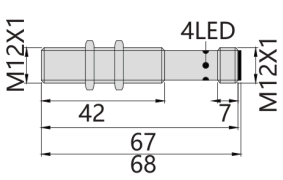
TECHNICAL DATA

Exterior structure	①: M12*1mm ②: M18*1mm ③: M30*1.5mm
Sensing distance	①: 4mm(Flush) ②: 8mm(Flush) ③: 10mm(Flush)
Switching frequency	①: 2000Hz ②: 2000Hz ③: 750Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)

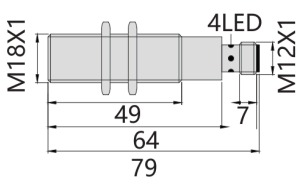
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, Teflon-plated
Sensing face material	PPS
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

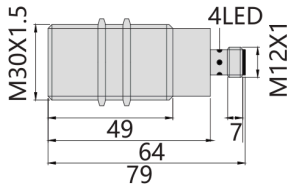
M12X68 Connector ①



M18X79 Connector ②



M30X79 Connector ③



All dimensions in mm.