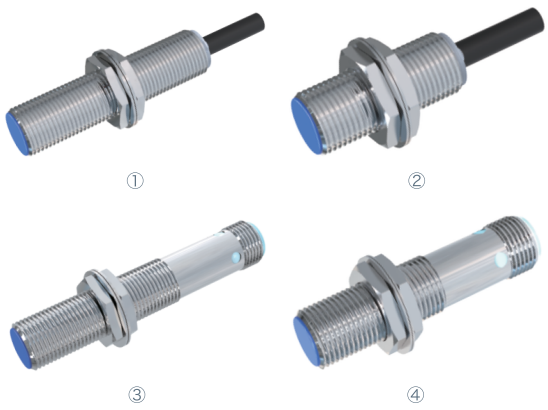
M12 Cylindrical Inductive Proximity Sensor

BIDW-M12-F4.0-UC2-S-S124 series · Sensing Distance: 4mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **4mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **3000Hz**	AMBIENT TEMP. **-40...85°C**
HOUSING **M12*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Low temperature resistance
- Suitable for cold storage, extremely cold environment
- Temperature-40°C...85°C

MODEL CODES

Output Type	①	②	③	④
NPN N.O	**BIDW-M12-N11F4.0-UC2** SKU 10103491	**BIDW-M12-N11F4.0-UC2-S** SKU 10103495	**BIDW-M12-N11F4.0-S124** SKU 10103499	**BIDW-M12-N11F4.0-S124-S** SKU 10103503
NPN N.C	**BIDW-M12-N21F4.0-UC2** SKU 10103492	**BIDW-M12-N21F4.0-UC2-S** SKU 10103496	**BIDW-M12-N21F4.0-S124** SKU 10103500	**BIDW-M12-N21F4.0-S124-S** SKU 10103504
PNP N.O	**BIDW-M12-P11F4.0-UC2** SKU 10103493	**BIDW-M12-P11F4.0-UC2-S** SKU 10103497	**BIDW-M12-P11F4.0-S124** SKU 10103501	**BIDW-M12-P11F4.0-S124-S** SKU 10103505
PNP N.C	**BIDW-M12-P21F4.0-UC2** SKU 10103494	**BIDW-M12-P21F4.0-UC2-S** SKU 10103498	**BIDW-M12-P21F4.0-S124** SKU 10103502	**BIDW-M12-P21F4.0-S124-S** SKU 10103506

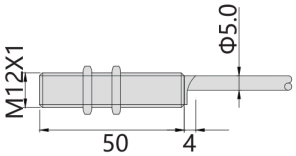
TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	4mm(Flush)
Switching frequency	3000Hz
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)

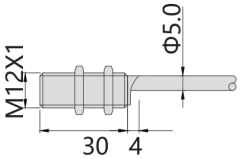
Ambient temperature	-40...85°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	①: 2m PUR Cable, 3*0.35mm² ②: 2m PUR Cable, 3*0.35mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

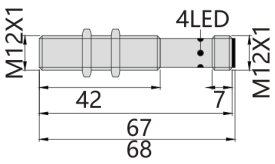
M12X50 Cable ①



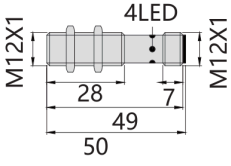
M12X30 Cable ②



M12X68 Connector ③



M12X50 Connector ④



All dimensions in mm.