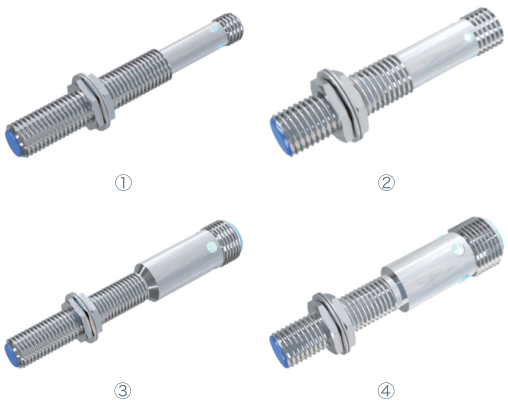
M8 Cylindrical Inductive Proximity Sensor

BIDW-M08-F2.0-S83-S-S124 series · Sensing Distance: 2mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE 2mm(Flush)	OPERATING VOLTAGE 10...30VDC(±10%)
SWITCHING FREQ. 3000Hz / 2000Hz	AMBIENT TEMP. -40...85°C
HOUSING M8*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-M08-N11F2.0-S83 SKU 10103219	BIDW-M08-N11F2.0-S83-S SKU 10103223	BIDW-M08-N11F2.0-S124 SKU 10103227	BIDW-M08-N11F2.0-S124-S SKU 10103231
NPN N.C	BIDW-M08-N21F2.0-S83 SKU 10103220	BIDW-M08-N21F2.0-S83-S SKU 10103224	BIDW-M08-N21F2.0-S124 SKU 10103228	BIDW-M08-N21F2.0-S124-S SKU 10103232
PNP N.O	BIDW-M08-P11F2.0-S83 SKU 10103221	BIDW-M08-P11F2.0-S83-S SKU 10103225	BIDW-M08-P11F2.0-S124 SKU 10103229	BIDW-M08-P11F2.0-S124-S SKU 10103233
PNP N.C	BIDW-M08-P21F2.0-S83 SKU 10103222	BIDW-M08-P21F2.0-S83-S SKU 10103226	BIDW-M08-P21F2.0-S124 SKU 10103230	BIDW-M08-P21F2.0-S124-S SKU 10103234

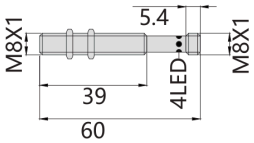
TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	2mm(Flush)
Switching frequency	①: 3000Hz ②: 2000Hz ③: 3000Hz ④: 2000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
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

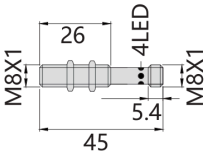
Ingress protection	IP67
Housing material	①: Stainless steel ②: Stainless steel ③: Brass, nickel-plated ④: Brass, nickel-plated
Sensing face material	POM
Connection	①: M8 Connector ②: M8 Connector ③: M12 Connector ④: M12 Connector
Accessories	①: M8 3 pin cable with connector ②: M8 3 pin cable with connector ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

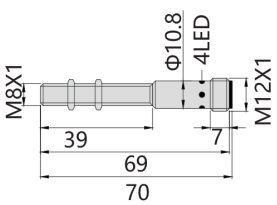
M8X60 Connector ①



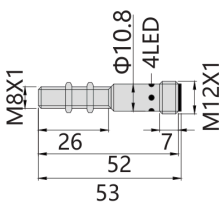
M8X45 Connector ②



M8X70 Connector ③



M8X53 Connector ④



All dimensions in mm.