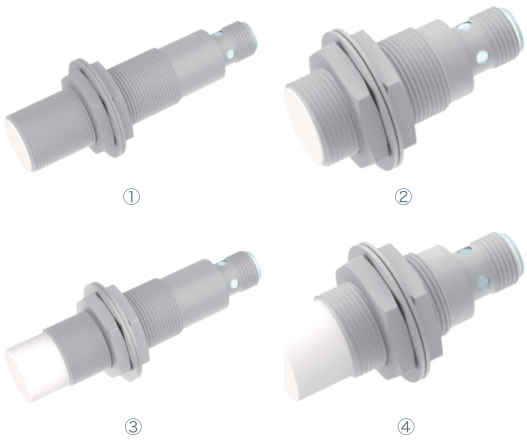
M18 Cylindrical Inductive Proximity Sensor

BIDT-M18-F8.0-N16-S124-S 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 M18*1mm
INGRESS PROTECTION IP67	

FEATURES

- Teflon-coated housing
- Proof to strong magnetic interference
- High resistance to interference and welding slags splashing

MODEL CODES

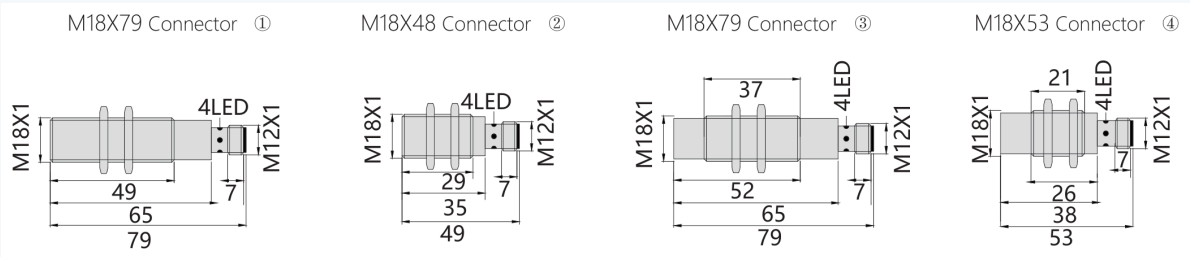
Output Type	①	②	③	④
NPN N.O	BIDT-M18-N11F8.0-S124 SKU 10103821	BIDT-M18-N11F8.0-S124-S SKU 10103825	BIDT-M18-N11N16-S124 SKU 10103915	BIDT-M18-N11N16-S124-S SKU 10103919
NPN N.C	BIDT-M18-N21F8.0-S124 SKU 10103822	BIDT-M18-N21F8.0-S124-S SKU 10103826	BIDT-M18-N21N16-S124 SKU 10103916	BIDT-M18-N21N16-S124-S SKU 10103920
PNP N.O	BIDT-M18-P11F8.0-S124 SKU 10103823	BIDT-M18-P11F8.0-S124-S SKU 10103827	BIDT-M18-P11N16-S124 SKU 10103917	BIDT-M18-P11N16-S124-S SKU 10103921
PNP N.C	BIDT-M18-P21F8.0-S124 SKU 10103824	BIDT-M18-P21F8.0-S124-S SKU 10103828	BIDT-M18-P21N16-S124 SKU 10103918	BIDT-M18-P21N16-S124-S SKU 10103922

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	①: 8mm(Flush) ②: 8mm(Flush) ③: 16mm(Non-Flush) ④: 16mm(Non-Flush)
Switching frequency	①: 3000Hz ②: 3000Hz ③: 500Hz ④: 500Hz
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	PTFE
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.