M12 Cylindrical Inductive Proximity Sensor

BIDS-M12-A14F2.0-A14F4.0-A24F2.0-A24F4.0-A14N4.0-A24N4.0-U15F2.0-U15F4.0-U25F2.0-U25F4.0-U15N4.0-U25N4.0-PC2 series · Switching Freq.: 25Hz/25Hz AC; 40Hz DC · Ambient Temp.: -25...70°C

IP67
Ingress Protection



①②



③

KEY SPECIFICATIONS

SWITCHING FREQ.	AMBIENT TEMP.
25Hz/25Hz AC; 40Hz DC	-25...70°C
HOUSING	INGRESS PROTECTION
M12*1mm	IP67

FEATURES

- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

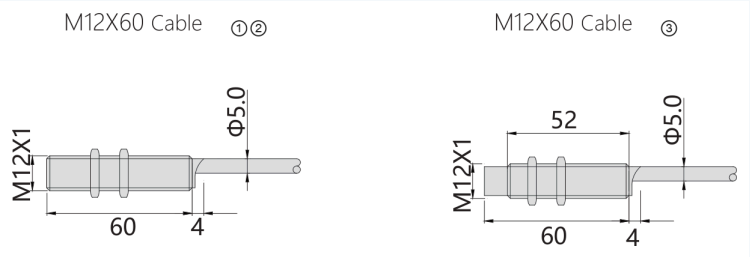
Output Type	①	②	③
AC type — 20...250V AC · 25Hz			
N.O	BIDS-M12-A14F2.0-PC2 SKU 10103404	BIDS-M12-A14F4.0-PC2 SKU 10103561	BIDS-M12-A14N4.0-PC2 SKU 10103565
N.C	BIDS-M12-A24F2.0-PC2 SKU 10103405	BIDS-M12-A24F4.0-PC2 SKU 10103562	BIDS-M12-A24N4.0-PC2 SKU 10103566
AC/DC type — 20...250V AC/DC · 25Hz AC; 40Hz DC			
N.O	BIDS-M12-U15F2.0-PC2 SKU 10103406	BIDS-M12-U15F4.0-PC2 SKU 10103563	BIDS-M12-U15N4.0-PC2 SKU 10103567
N.C	BIDS-M12-U25F2.0-PC2 SKU 10103407	BIDS-M12-U25F4.0-PC2 SKU 10103564	BIDS-M12-U25N4.0-PC2 SKU 10103568

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	①: 2mm(Flush) ②: 4mm(Flush) ③: 4mm(Non-Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC; 40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	≤8V AC/≤10V AC,8V DC
Load current	Max.load: 400mA; min.Load: 5mA
Residual signal	≤1.8mA/≤2.5mA
Hysteresis	<15%(Sr)

Repeatability	<1.0%(Sr)
Switch 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	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.