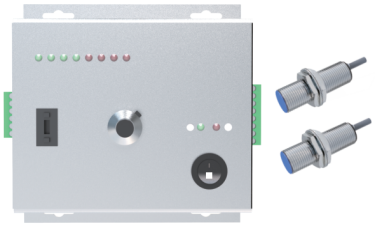
Metal Sheet Double Sheet Detection Sensor

BIDS-N050 series · Sensing Distance: 30...60mm · Operating Voltage: 110V/220VAC±10%



KEY SPECIFICATIONS

SENSING DISTANCE **30...60mm**	OPERATING VOLTAGE **110V/220VAC±10%**
SWITCHING FREQ. **50/60Hz**	RESPONSE TIME **<50ms**

MODEL CODES

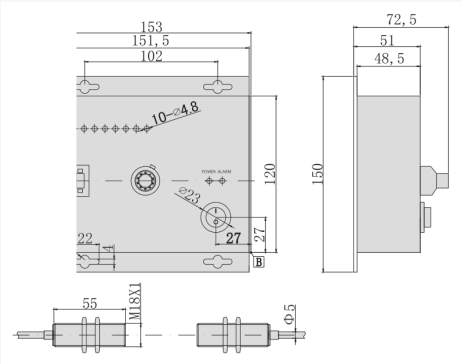
Output Type	Model Code
Host NPN N.O/N.C	**BIDS-N050** SKU 10105203
Sensing elements	**BIDS-M1850-CP5** SKU 10105204

TECHNICAL DATA

Operating voltage	110V/220VAC±10%
Switching frequency	50/60Hz
Detection method	Split design for sensing elements and host
Output	NPN 100mA/<24VDC,250VAC/3A
Response time	<50ms
Sensitivity adjustment	Knob to adjust
LED indicator	Red LED indicator light
Ingress protection	IEC IP20
Ambient temperature / humidity	0...55°C(Non-freezing state)/RH35...85%

Sensing element — BIDS-M1850-CP5	
Sensing distance	30...60mm
Target object thickness	Iron: 0.1...3.5mm; aluminum: 0.1...3.5mm; copper: 0.1...3.5mm; stainless steel: 0.3...3.5mm
Standard detection object	200×200×1(mm) Iron Plate
Ingress protection	IEC IP67
Ambient temperature / humidity	-10...55°C(Non-freezing state)/RH35...85%
Material	Sensor housing: Brass, nickel-plated/Sensing face: PBT
Cable	PVC cable /5m(2*0.35mm²); PVC shielded wire /5m(2*0.35mm²)
Accessories	Screwdriver, nut

DIMENSIONAL DRAWINGS



All dimensions in mm.