R6 / R10 / R12 Ring Type Inductive Proximity Sensor

BIDR-R20-N10-N12-N15-N30-N6.0-PC2 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 1000Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **1000Hz**
AMBIENT TEMP. **-25...70°C**	INGRESS PROTECTION **IP67**

FEATURES

- High response frequency
- High protection level

MODEL CODES

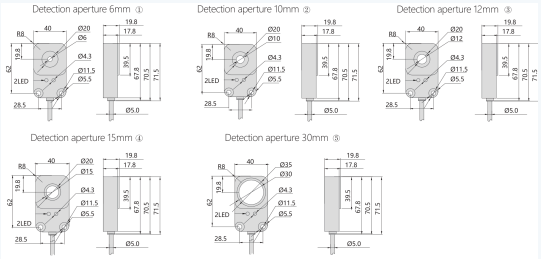
Output Type	6mm ①	10mm ②	12mm ③	15mm ④	30mm ⑤
NPN N.O	BIDR-R20-N11N6.0-PC2 SKU 10104639	BIDR-R20-N11N10-PC2 SKU 10104643	BIDR-R20-N11N12-PC2 SKU 10104647	BIDR-R20-N11N15-PC2 SKU 10104651	BIDR-R20-N11N30-PC2 SKU 10104655
NPN N.C	BIDR-R20-N21N6.0-PC2 SKU 10104640	BIDR-R20-N21N10-PC2 SKU 10104644	BIDR-R20-N21N12-PC2 SKU 10104648	BIDR-R20-N21N15-PC2 SKU 10104652	BIDR-R20-N21N30-PC2 SKU 10104656
PNP N.O	BIDR-R20-P11N6.0-PC2 SKU 10104641	BIDR-R20-P11N10-PC2 SKU 10104645	BIDR-R20-P11N12-PC2 SKU 10104649	BIDR-R20-P11N15-PC2 SKU 10104653	BIDR-R20-P11N30-PC2 SKU 10104657
PNP N.C	BIDR-R20-P21N6.0-PC2 SKU 10104642	BIDR-R20-P21N10-PC2 SKU 10104646	BIDR-R20-P21N12-PC2 SKU 10104650	BIDR-R20-P21N15-PC2 SKU 10104654	BIDR-R20-P21N30-PC2 SKU 10104658

TECHNICAL DATA

Detection aperture	6mm 10mm 12mm 15mm 30mm
Switching frequency	1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤3.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤20mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Green power indicator, yellow action indicator)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	ABS
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.