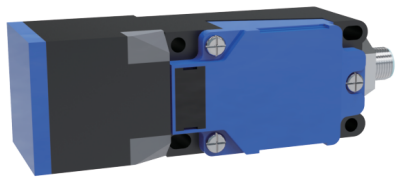
# Q40 Rectangular Inductive Proximity Sensor

BIDP-R40-F15-F20-F30-N20-N30-N40-S124 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 300Hz / 100Hz

**IP67**
Ingress Protection



## KEY SPECIFICATIONS

| | |
|---|---|
| OPERATING VOLTAGE<br>**10...30VDC(±10%)** | SWITCHING FREQ.<br>**300Hz / 100Hz** |
| AMBIENT TEMP.<br>**-25...70°C** | HOUSING<br>**40*40*115mm** |
| INGRESS PROTECTION<br>**IP67** | |

FEATURES

- Multiple installation methods
- Wide detection range
- Can freely change the direction of detection

## MODEL CODES

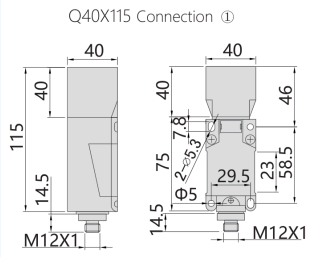
| Output Type | | | | | | |
|---|---|---|---|---|---|---|
| NPN N.O | BIDP-R40-N11F15-S124<br>SKU 10104509 | BIDP-R40-N11F20-S124<br>SKU 10104513 | BIDP-R40-N11F30-S124<br>SKU 10104517 | BIDP-R40-N11N20-S124<br>SKU 10104521 | BIDP-R40-N11N30-S124<br>SKU 10104537 | BIDP-R40-N11N40-S124<br>SKU 10104541 |
| NPN N.C | BIDP-R40-N21F15-S124<br>SKU 10104510 | BIDP-R40-N21F20-S124<br>SKU 10104514 | BIDP-R40-N21F30-S124<br>SKU 10104518 | BIDP-R40-N21N20-S124<br>SKU 10104522 | BIDP-R40-N21N30-S124<br>SKU 10104538 | BIDP-R40-N21N40-S124<br>SKU 10104542 |
| PNP N.O | BIDP-R40-P11F15-S124<br>SKU 10104511 | BIDP-R40-P11F20-S124<br>SKU 10104515 | BIDP-R40-P11F30-S124<br>SKU 10104519 | BIDP-R40-P11N20-S124<br>SKU 10104523 | BIDP-R40-P11N30-S124<br>SKU 10104539 | BIDP-R40-P11N40-S124<br>SKU 10104543 |
| PNP N.C | BIDP-R40-P21F15-S124<br>SKU 10104512 | BIDP-R40-P21F20-S124<br>SKU 10104516 | BIDP-R40-P21F30-S124<br>SKU 10104520 | BIDP-R40-P21N20-S124<br>SKU 10104524 | BIDP-R40-P21N30-S124<br>SKU 10104540 | BIDP-R40-P21N40-S124<br>SKU 10104544 |

## TECHNICAL DATA

| | |
|---|---|
| **Size** | 40*40*115mm |
| **Sensing distance** | ①: 15mm(Flush)<br>②: 20mm(Flush)<br>③: 30mm(Quasi-Flush)<br>④: 20mm(Non-Flush)<br>⑤: 30mm(Non-Flush)<br>⑥: 40mm(Non-Flush) |
| **Switching frequency** | ①: 300Hz<br>②: 300Hz<br>③: 100Hz<br>④: 300Hz<br>⑤: 300Hz<br>⑥: 100Hz |
| **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** | PBT |
| **Sensing face material** | PBT |
| **Connection** | Terminal connection, 2.5mm²/M12 Connector |
| **Accessories** | M12 4 pin cable with connector |

## DIMENSIONAL DRAWINGS




*All dimensions in mm.*