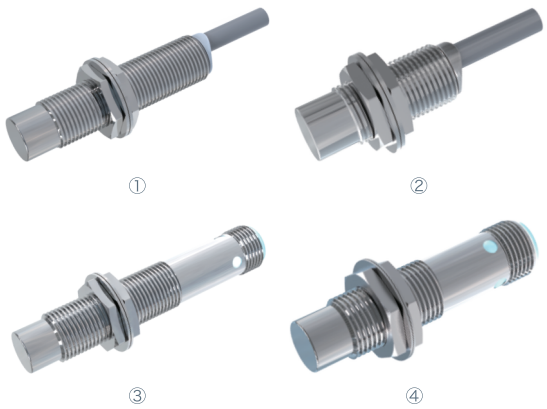
# M12 Cylindrical Inductive Proximity Sensor

BIDM-M12-N4.0-PC2-S-S124 series · Sensing Distance: 4mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

**IP67**
Ingress Protection




## KEY SPECIFICATIONS

| | |
|---|---|
| SENSING DISTANCE<br>**4mm(Non-Flush)** | OPERATING VOLTAGE<br>**10...30VDC(±10%)** |
| SWITCHING FREQ.<br>**100Hz** | AMBIENT TEMP.<br>**-25...70°C** |
| HOUSING<br>**M12*1mm** | INGRESS PROTECTION<br>**IP67** |

FEATURES

- High protection level
- Collision proof
- Corrosion resistance

## MODEL CODES

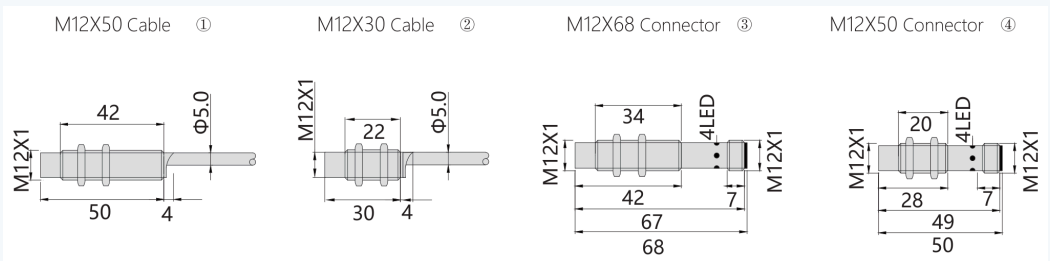
| Output Type | ① | ② | ③ | ④ |
|---|---|---|---|---|
| NPN N.O | BIDM-M12-N11N4.0-PC2<br>SKU 10103455 | BIDM-M12-N11N4.0-PC2-S<br>SKU 10103459 | BIDM-M12-N11N4.0-S124<br>SKU 10103463 | BIDM-M12-N11N4.0-S124-S<br>SKU 10103467 |
| NPN N.C | BIDM-M12-N21N4.0-PC2<br>SKU 10103456 | BIDM-M12-N21N4.0-PC2-S<br>SKU 10103460 | BIDM-M12-N21N4.0-S124<br>SKU 10103464 | BIDM-M12-N21N4.0-S124-S<br>SKU 10103468 |
| PNP N.O | BIDM-M12-P11N4.0-PC2<br>SKU 10103457 | BIDM-M12-P11N4.0-PC2-S<br>SKU 10103461 | BIDM-M12-P11N4.0-S124<br>SKU 10103465 | BIDM-M12-P11N4.0-S124-S<br>SKU 10103469 |
| PNP N.C | BIDM-M12-P21N4.0-PC2<br>SKU 10103458 | BIDM-M12-P21N4.0-PC2-S<br>SKU 10103462 | BIDM-M12-P21N4.0-S124<br>SKU 10103466 | BIDM-M12-P21N4.0-S124-S<br>SKU 10103470 |

## TECHNICAL DATA

| | |
|---|---|
| Exterior structure | M12*1mm |
| Sensing distance | 4mm(Non-Flush) |
| Switching frequency | 100Hz |
| Operating voltage | 10...30VDC(±10%) |
| Voltage drop | ≤2.0V |
| Load current | 200mA |
| 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 | Stainless steel |
| Sensing face material | Stainless steel |
| Connection | ①: 2m PVC Cable, 3*0.35mm²<br>②: 2m PVC Cable, 3*0.35mm²<br>③: M12 Connector<br>④: M12 Connector |
| Accessories | ①: None<br>②: None<br>③: M12 4 pin cable with connector<br>④: M12 4 pin cable with connector |

## DIMENSIONAL DRAWINGS




*All dimensions in mm.*