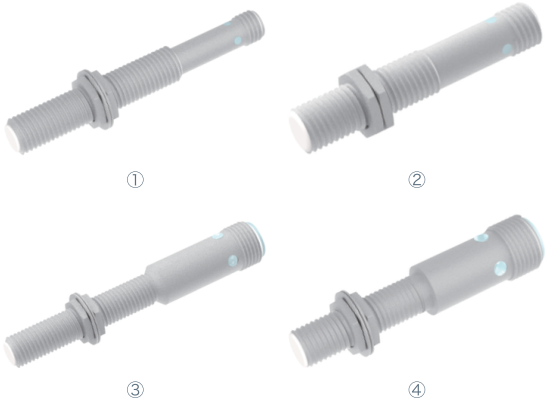
# M8 Cylindrical Inductive Proximity Sensor

BIDT-M08-F2.0-S83-S-S124 series · Sensing Distance: 2mm(Flush) · Operating Voltage: 10...30VDC(±10%)

**IP67**
Ingress Protection




## KEY SPECIFICATIONS

| | |
|---|---|
| SENSING DISTANCE<br>2mm(Flush) | OPERATING VOLTAGE<br>10...30VDC(±10%) |
| SWITCHING FREQ.<br>3000Hz / 2000Hz | AMBIENT TEMP.<br>-25...70°C |
| HOUSING<br>M8*1mm | INGRESS PROTECTION<br>IP67 |

FEATURES

- Teflon-coated housing
- Proof to strong magnetic interference
- High resistance to interference and welding slags splashing

## MODEL CODES

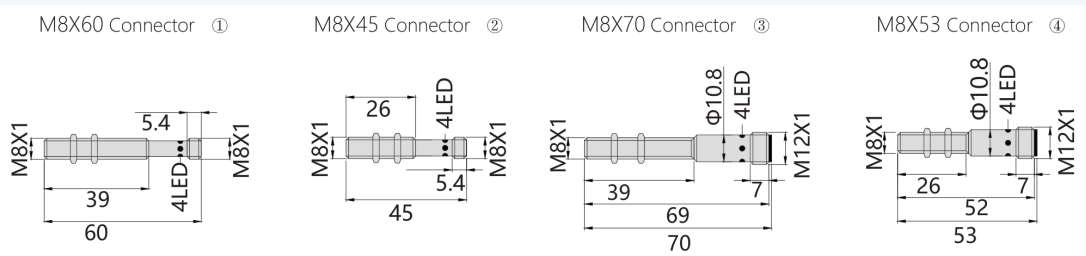
| Output Type | ① | ② | ③ | ④ |
|---|---|---|---|---|
| NPN N.O | BIDT-M08-N11F2.0-S83<br>SKU 10103195 | BIDT-M08-N11F2.0-S83-S<br>SKU 10103199 | BIDT-M08-N11F2.0-S124<br>SKU 10103203 | BIDT-M08-N11F2.0-S124-S<br>SKU 10103207 |
| NPN N.C | BIDT-M08-N21F2.0-S83<br>SKU 10103196 | BIDT-M08-N21F2.0-S83-S<br>SKU 10103200 | BIDT-M08-N21F2.0-S124<br>SKU 10103204 | BIDT-M08-N21F2.0-S124-S<br>SKU 10103208 |
| PNP N.O | BIDT-M08-P11F2.0-S83<br>SKU 10103197 | BIDT-M08-P11F2.0-S83-S<br>SKU 10103201 | BIDT-M08-P11F2.0-S124<br>SKU 10103205 | BIDT-M08-P11F2.0-S124-S<br>SKU 10103209 |
| PNP N.C | BIDT-M08-P21F2.0-S83<br>SKU 10103198 | BIDT-M08-P21F2.0-S83-S<br>SKU 10103202 | BIDT-M08-P21F2.0-S124<br>SKU 10103206 | BIDT-M08-P21F2.0-S124-S<br>SKU 10103210 |

## TECHNICAL DATA

| | |
|---|---|
| Exterior structure | M8*1mm |
| Sensing distance | 2mm(Flush) |
| Switching frequency | ①: 3000Hz<br>②: 2000Hz<br>③: 3000Hz<br>④: 2000Hz |
| Operating voltage | 10...30VDC(±10%) |
| Voltage drop | ≤2.0V |
| Load current | 100mA |
| 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 | Brass, Teflon-plated |
| Sensing face material | PTFE |
| Connection | ①: M8 Connector<br>②: M8 Connector<br>③: M12 Connector<br>④: M12 Connector |
| Accessories | ①: M8 3 pin cable with connector<br>②: M8 3 pin cable with connector<br>③: M12 4 pin cable with connector<br>④: M12 4 pin cable with connector |

## DIMENSIONAL DRAWINGS




*All dimensions in mm.*