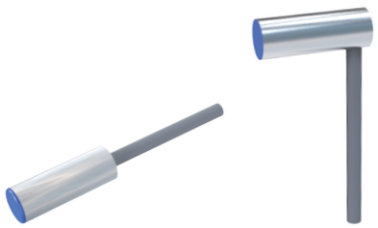
# Φ6.5 Cylindrical Inductive Proximity Sensor

BIDS-Q6.5-F2.0-F3.0-PC2-R-T series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 2000Hz / 1000Hz

**IP67**
Ingress Protection



①② ③④

## KEY SPECIFICATIONS

| | |
|---|---|
| OPERATING VOLTAGE<br>**10...30VDC(±10%)** | SWITCHING FREQ.<br>**2000Hz / 1000Hz** |
| AMBIENT TEMP.<br>**-25...70°C** | HOUSING<br>**Φ6.5mm** |
| INGRESS PROTECTION<br>**IP67** | |

FEATURES

- Flush mounting
- High response frequency
- Ultra-short installation size

## MODEL CODES

| Output Type | ① | ② | ③ | ④ |
|---|---|---|---|---|
| NPN N.O | BIDS-Q6.5-N11F2.0-PC2-R<br>SKU 10103017 | BIDS-Q6.5-N11F3.0-PC2-R<br>SKU 10103069 | BIDS-Q6.5-N11F2.0-PC2-T<br>SKU 10103021 | BIDS-Q6.5-N11F3.0-PC2-T<br>SKU 10103073 |
| NPN N.C | BIDS-Q6.5-N21F2.0-PC2-R<br>SKU 10103018 | BIDS-Q6.5-N21F3.0-PC2-R<br>SKU 10103070 | BIDS-Q6.5-N21F2.0-PC2-T<br>SKU 10103022 | BIDS-Q6.5-N21F3.0-PC2-T<br>SKU 10103074 |
| PNP N.O | BIDS-Q6.5-P11F2.0-PC2-R<br>SKU 10103019 | BIDS-Q6.5-P11F3.0-PC2-R<br>SKU 10103071 | BIDS-Q6.5-P11F2.0-PC2-T<br>SKU 10103023 | BIDS-Q6.5-P11F3.0-PC2-T<br>SKU 10103075 |
| PNP N.C | BIDS-Q6.5-P21F2.0-PC2-R<br>SKU 10103020 | BIDS-Q6.5-P21F3.0-PC2-R<br>SKU 10103072 | BIDS-Q6.5-P21F2.0-PC2-T<br>SKU 10103024 | BIDS-Q6.5-P21F3.0-PC2-T<br>SKU 10103076 |

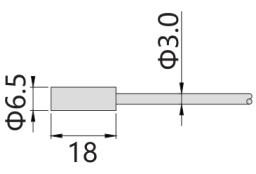
## TECHNICAL DATA

| | |
|---|---|
| **Exterior structure** | Φ6.5mm |
| **Sensing distance** | ①: 2mm(Flush)<br>②: 3mm(Quasi-Flush)<br>③: 2mm(Flush)<br>④: 3mm(Quasi-Flush) |
| **Switching frequency** | ①: 2000Hz<br>②: 1000Hz<br>③: 2000Hz<br>④: 1000Hz |
| **Operating voltage** | 10...30VDC(±10%) |
| **Voltage drop** | ≤2.0V |
| **Load current** | 100mA |
| **Leakage current** | ≤0.01mA |
| **No-load current** | ≤10mA(24V) |

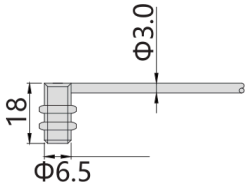
| | |
|---|---|
| **Hysteresis** | <15%(Sr) |
| **Repeatability** | <1.0%(Sr) |
| **Switch protection** | Short-circuit protection, Polarity reversal protection, Power-on |
| **LED indicator** | With (Action: LED Indicator Lights Up) |
| **Ambient temperature** | -25...70°C |
| **Ingress protection** | IP67 |
| **Housing material** | Stainless steel |
| **Sensing face material** | POM |
| **Connection** | 2m PVC Cable, 3*0.18mm² |
| **Accessories** | None |

## DIMENSIONAL DRAWINGS

Φ6.5X18 Cable ①②




Φ6.5X18 Side out cable ③④




*All dimensions in mm.*