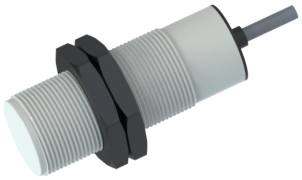
# M30 Cylindrical Capacitive Proximity Sensor

BCDS-M30-A14F20-PC2 series · Sensing Distance: 20mm(Flush) · Switching Freq.: 25Hz/25Hz AC,40Hz DC

**IP67**
Ingress Protection



①



②

## KEY SPECIFICATIONS

| | |
|---|---|
| SENSING DISTANCE<br>20mm(Flush) | SWITCHING FREQ.<br>25Hz/25Hz AC,40Hz DC |
| AMBIENT TEMP.<br>-25...70°C | HOUSING<br>M30*1.5mm |
| INGRESS PROTECTION<br>IP67 | |

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

## MODEL CODES

| Output Type | ① | ② |
|---|---|---|
| **AC type — 20...250V AC · 25Hz** | | |
| N.O | BCDS-M30-A14F20-PC2<br>SKU 10102817 | BCDP-M30-A14F20-PC2<br>SKU 10102821 |
| N.C | BCDS-M30-A24F20-PC2<br>SKU 10102818 | BCDP-M30-A24F20-PC2<br>SKU 10102822 |
| **AC/DC type — 20...250V AC/DC · 25Hz AC,40Hz DC** | | |
| N.O | BCDS-M30-U15F20-PC2<br>SKU 10102819 | BCDP-M30-U15F20-PC2<br>SKU 10102823 |
| N.C | BCDS-M30-U25F20-PC2<br>SKU 10102820 | BCDP-M30-U25F20-PC2<br>SKU 10102824 |

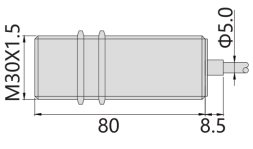
## TECHNICAL DATA

| | |
|---|---|
| Exterior structure | M30*1.5mm |
| Sensing distance | 20mm(Flush) |
| Switching frequency | AC: 25Hz · AC/DC: 25Hz AC,40Hz DC |
| Operating voltage | AC: 20...250V AC · AC/DC: 20...250V AC/DC |
| Voltage drop | <9V AC(300mA)/<10V AC,<8V DC |
| Load current | Max.load: 300mA; min.Load: 5mA Max.load: 200mA; min.Load: 5mA |
| Residual signal | <2.5mA |
| Hysteresis | <15%(Sr) |
| Repeatability | <5.0%(Sr) |

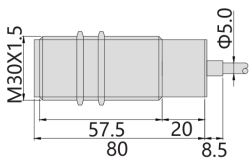
| | |
|---|---|
| Switch protection | Short-circuit protection, Polarity reversal protection, Power-on |
| LED indicator | With (Action: LED Indicator Lights Up) |
| Ambient temperature | -25...70°C |
| Ingress protection | IP67 |
| Housing material | ①: Brass, nickel-plated<br>②: PBT |
| Sensing face material | PBT |
| Connection | 2m PVC Cable, 2*0.5mm²/3*0.35mm² |
| Accessories | None |

## DIMENSIONAL DRAWINGS

Brass,nickel-plated ①
M30X80 Cable




PBT M30X80 Cable ②




*All dimensions in mm.*