# M18 Cylindrical Capacitive Proximity Sensor

BCDS-M18-A14F8.0-S124 series · Sensing Distance: 8mm(Flush) · Switching Freq.: 25Hz/25Hz AC,40Hz DC

**IP67**
Ingress Protection



①



②

## KEY SPECIFICATIONS

| | |
|---|---|
| SENSING DISTANCE<br>8mm(Flush) | SWITCHING FREQ.<br>25Hz/25Hz AC,40Hz DC |
| AMBIENT TEMP.<br>-25...70°C | HOUSING<br>M18*1mm |
| 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

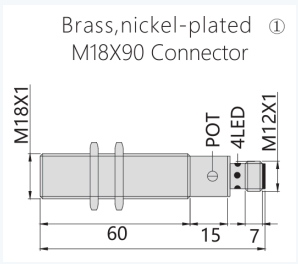
| Output Type | ① | ② |
|---|---|---|
| **AC type — 20...250V AC · 25Hz** | | |
| N.O | BCDS-M18-A14F8.0-S124<br>SKU 10102793 | BCDP-M18-A14F8.0-S124<br>SKU 10102797 |
| N.C | BCDS-M18-A24F8.0-S124<br>SKU 10102794 | BCDP-M18-A24F8.0-S124<br>SKU 10102798 |
| **AC/DC type — 20...250V AC/DC · 25Hz AC,40Hz DC** | | |
| N.O | BCDS-M18-U15F8.0-S124<br>SKU 10102795 | BCDP-M18-U15F8.0-S124<br>SKU 10102799 |
| N.C | BCDS-M18-U25F8.0-S124<br>SKU 10102796 | BCDP-M18-U25F8.0-S124<br>SKU 10102800 |

## TECHNICAL DATA

| | |
|---|---|
| Exterior structure | M18*1mm |
| Sensing distance | 8mm(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 | M12 Connector |
| Accessories | M12 4 pin cable with connector |

## DIMENSIONAL DRAWINGS




*All dimensions in mm.*