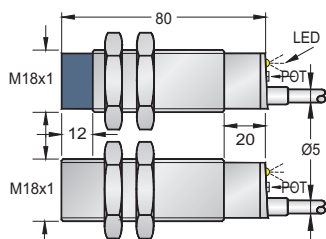
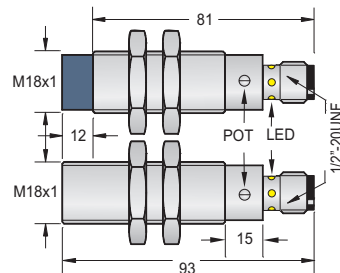


Features

- M18mm diameter
- 20-250VAC/DC operating voltage
- Sn=2 ... 8mm, shielded
2 ... 15mm, non-shielded
- Brass housing case
PBT housing case
- AC/DC Output
- NO, NC Function
- Cable version
3 Pin M12 Connector version
- IP67 Protection



(Unit: mm)



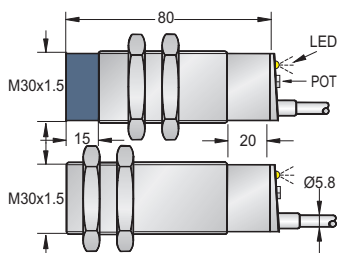
(Unit: mm)



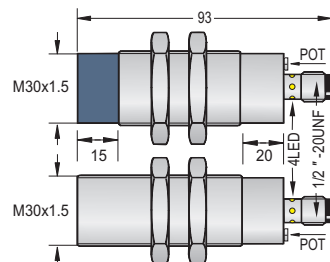
| Connection | | 2m Cable | | 3 Pin M12 Connector | |
|-------------------------------------|----------|--|---------------------|--|---------------------|
| Mounting | | Shielded | Non-shielded | Shielded | Non-shielded |
| Brass Case | AC/DC-NO | CN9AE18S08A | CN9AF18S15A | CN9AE18S08L | CN9AF18S15L |
| | AC/DC-NC | CN9AE18T08A | CN9AF18T15A | CN9AE18T08L | CN9AF18T15L |
| PBT Case | AC/DC-NO | CN9ME18S08A | CN9MF18S15A | CN9ME18S08L | CN9MF18S15L |
| | AC/DC-NC | CN9ME18T08A | CN9MF18T15A | CN9ME18T08L | CN9MF18T15L |
| General Data | | | | | |
| Housing size | | M18mm | | M18mm | |
| Installation type | | Shielded | Non-shielded | Shielded | Non-shielded |
| Sensing distance (Sn: mm) | | 2...8mm adjustable | 2...15mm adjustable | 2...8mm adjustable | 2...15mm adjustable |
| Standard sensing object | | Steel 24x24x1mm | Steel 45x45x1mm | Steel 24x24x1mm | Steel 45x45x1mm |
| Effective sensing distance (Sr: mm) | | 90 ... 110% of Sn | | 90 ... 110% of Sn | |
| Assured operating distance (Sa: mm) | | 0 ... 80% of Sn | | 0 ... 80% of Sn | |
| Hysteresis | | <15% | | <15% | |
| Housing material | | Nickel plated brass/PBT Resin | | Nickel plated brass/PBT Resin | |
| Operating voltage | | 20 ... 250VAC/DC | | 20 ... 250VAC/DC | |
| Electrical Data | | | | | |
| Rated operating voltage | | 110VAC | | 110VAC | |
| Repeated accuracy | | ±10% | | ±10% | |
| Surge current | | 5A(20ms) | | 5A(20ms) | |
| No load current | | <2.5mA | | <2.5mA | |
| Max. Load current | | 300mA | | 300mA | |
| Leakage current | | <2.5mA | | <2.5mA | |
| Voltage drop | | <10VAC, <8VDC | | <10VAC, <8VDC | |
| Switching frequency | | <25Hz/AC, <40Hz/DC | | <25Hz/AC, <40Hz/DC | |
| Response time | | 10ms/10ms | | 10ms/10ms | |
| Rated insulation voltage | | 250VAC | | 250VAC | |
| Operating temperature | | -25°C ... +70°C | | -25°C ... +70°C | |
| Storage temperature | | -40°C ... +80°C | | -40°C ... +80°C | |
| Temperature drift | | <10% | | <10% | |
| Power indicator | | No | | No | |
| Function indicator | | Yellow LED | | Yellow LED | |
| Reverse polarity protection | | No | | No | |
| Short-circuit protection | | No | | No | |
| Min. load current | | 5mA | | 5mA | |
| Correction factors | | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | |
| Mechanical Data | | | | | |
| Sensing surface material | | PBT | | PBT | |
| Protection | | IP67 | | IP67 | |
| Shock rating | | Shock, half-sinus, 30gn, 11ms | | Shock, half-sinus, 30gn, 11ms | |
| Vibration rating | | 55Hz, 1mm ampl., 3x30min. | | 55Hz, 1mm ampl., 3x30min. | |
| EMC | | IEC 60947-5-2 | | IEC 60947-5-2 | |
| Accessory | | 2 nuts | | 2 nuts | |
| Connection | | 2m PVC cable (Ø5 3x0.5mm ² /2x0.5mm ²) | | Micro-style 3 Pin 1/2" connector | |
| Weight | | Approx. 115g | | Approx. 94g | |

Features

- M30mm diameter
- 20-250VAC/DC operating voltage
- Sn=2 ... 20mm, shielded
2 ... 30mm, non-shielded
- Brass housing case
PBT housing case
- AC/DC Output
- NO, NC Function
- Cable version
3 Pin M12 Connector version
- IP67 Protection



(Unit: mm)



(Unit: mm)



| Connection | | 2m Cable | | 3 Pin M12 Connector | |
|-------------------------------------|----------|--|--------------|--|--------------|
| Mounting | | Shielded | Non-shielded | Shielded | Non-shielded |
| Brass Case | AC/DC-NO | CN9AE30S20A | CN9AF30S30A | CN9AE30S20L | CN9AF30S30L |
| | AC/DC-NC | CN9AE30T20A | CN9AF30T30A | CN9AE30T20L | CN9AF30T30L |
| PBT Case | AC/DC-NO | CN9ME30S20A | CN9MF30S30A | CN9ME30S20L | CN9MF30S30L |
| | AC/DC-NC | CN9ME30T20A | CN9MF30T30A | CN9ME30T20L | CN9MF30T30L |
| General Data | | | | | |
| Housing size | | M30mm | | M30mm | |
| Installation type | | Shielded | Non-shielded | Shielded | Non-shielded |
| Sensing distance (Sn: mm) | | 2...20mm adjustable | | 2...30mm adjustable | |
| Standard sensing object | | Steel 60x60x1mm | | Steel 90x90x1mm | |
| Effective sensing distance (Sr: mm) | | 90 ... 110% of Sn | | 90 ... 110% of Sn | |
| Assured operating distance (Sa: mm) | | 0 ... 80% of Sn | | 0 ... 80% of Sn | |
| Hysteresis | | <15% | | <15% | |
| Housing material | | Nickel plated brass/PBT Resin | | Nickel plated brass/PBT Resin | |
| Operating voltage | | 20 ... 250VAC/DC | | 20 ... 250VAC/DC | |
| Electrical Data | | | | | |
| Rated operating voltage | | 110VAC | | 110VAC | |
| Repeated accuracy | | ±10% | | ±10% | |
| Surge current | | 2.2A(20ms) | | 2.2A(20ms) | |
| No load current | | <2.5mA | | <2.5mA | |
| Max. Load current | | 200mA | | 200mA | |
| Leakage current | | <2.5mA | | <2.5mA | |
| Voltage drop | | <10VAC, <8VDC | | <10VAC, <8VDC | |
| Switching frequency | | <25Hz/AC, <40Hz/DC | | <25Hz/AC, <40Hz/DC | |
| Response time | | 10ms/10ms | | 10ms/10ms | |
| Rated insulation voltage | | 250VAC | | 250VAC | |
| Operating temperature | | -25°C ... +70°C | | -25°C ... +70°C | |
| Storage temperature | | -40°C ... +80°C | | -40°C ... +80°C | |
| Temperature drift | | <10% | | <10% | |
| Power indicator | | No | | No | |
| Function indicator | | Yellow LED | | Yellow LED | |
| Reverse polarity protection | | No | | No | |
| Short-circuit protection | | No | | No | |
| Min. load current | | 5mA | | 5mA | |
| Correction factors | | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | |
| Mechanical Data | | | | | |
| Sensing surface material | | PBT | | PBT | |
| Protection | | IP67 | | IP67 | |
| Shock rating | | Shock, half-sinus, 30gn, 11ms | | Shock, half-sinus, 30gn, 11ms | |
| Vibration rating | | 55Hz, 1mm ampl., 3x30min. | | 55Hz, 1mm ampl., 3x30min. | |
| EMC | | IEC 60947-5-2 | | IEC 60947-5-2 | |
| Accessory | | 2 nuts | | 2 nuts | |
| Connection | | 2m PVC cable (Ø5.8 3x0.5mm ² /2x0.5mm ²) | | Micro-style 3 Pin 1/2" connector | |
| Weight | | Approx. 231g | | Approx. 137g | |

AC/DC Capacitive Proximity Sensors

| | | | | |
|---|--|---------------------|--|---------------------|
| Features <ul style="list-style-type: none"> • Ø34mm diameter • 20-250VAC/DC operating voltage • Sn=2 ... 25mm, shielded 2 ... 35mm, non-shielded • PBT housing case • AC/DC Output • NO, NC Function • Cable version 3 Pin M12 Connector version • IP67 Protection | <p>(Unit: mm)</p> | <p>(Unit: mm)</p> | | |
| | | | | |
| | 2m Cable | | 3 Pin M12 Connector | |
| | Shielded | | Non-shielded | |
| Connection | | | | |
| Mounting | | | | |
| Brass Case | AC/DC-NO AC/DC-NC | | | |
| PBT Case | AC/DC-NO AC/DC-NC | | AC/DC-NO AC/DC-NC | |
| | CN9NE34S25A CN9NE34T25A | | CN9NF34S35A CN9NF34T35A | |
| General Data | | | | |
| Housing size | Ø34mm | | Ø34mm | |
| Installation type | Shielded | Non-shielded | Shielded | Non-shielded |
| Sensing distance(Sn: mm) | 2...25mm adjustable | 2...35mm adjustable | 2...25mm adjustable | 2...35mm adjustable |
| Standard sensing object | Steel 75x75x1mm | Steel 105x105x1mm | Steel 75x75x1mm | Steel 105x105x1mm |
| Effective sensing distance (Sr: mm) | 90 ... 110% of Sn | | 90 ... 110% of Sn | |
| Assured operating distance(Sa: mm) | 0 ... 80% of Sn | | 0 ... 80% of Sn | |
| Hysteresis | <15% | | <15% | |
| Housing material | PBT Resin/PBT | | PBT Resin/PBT | |
| Operating voltage | 20 ... 250VAC/DC | | 20 ... 250VAC/DC | |
| Electrical Data | | | | |
| Rated operating voltage | 110VAC | | 110VAC | |
| Repeated accuracy | ±10% | | ±10% | |
| Surge current | 5A(20ms) | | 5A(20ms) | |
| No load current | <2.5mA | | <2.5mA | |
| Max. Load current | 300mA | | 300mA | |
| Leakage current | <2.5mA | | <2.5mA | |
| Voltage drop | <10VAC, <8VDC | | <10VAC, <8VDC | |
| Switching frequency | <25Hz/AC, <40Hz/DC | | <25Hz/AC, <40Hz/DC | |
| Response time | 10ms/10ms | | 10ms/10ms | |
| Rated insulation voltage | 250VAC | | 250VAC | |
| Operating temperature | -25°C ... +70°C | | -25°C ... +70°C | |
| Storage temperature | -40°C ... +80°C | | -40°C ... +80°C | |
| Temperature drift | <10% | | <10% | |
| Power indicator | No | | No | |
| Function indicator | Yellow LED | | Yellow LED | |
| Reverse polarity protection | No | | No | |
| Short-circuit protection | No | | No | |
| Min. load current | 5mA | | 5mA | |
| Correction factors | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | |
| Mechanical Data | | | | |
| Sensing surface material | PBT | | PBT | |
| Protection | IP67 | | IP67 | |
| Shock rating | Shock, half-sinus, 30gn, 11ms | | Shock, half-sinus, 30gn, 11ms | |
| Vibration rating | 55Hz, 1mm ampl., 3x30min. | | 55Hz, 1mm ampl., 3x30min. | |
| EMC | IEC 60947-5-2 | | IEC 60947-5-2 | |
| Accessory | Bracket and nuts | | Bracket and nuts | |
| Connection | 2m PVC cable (Ø5.8 2x0.5mm ²) | | Micro-style 3 Pin 1/2" connector | |
| Weight | Approx. 250g | | Approx. 162g | |