

## AC - 2 WIRE-STANDARD

**Brass, Nickel Plated (BN), Cylindrical,  
Threaded, 90-250V AC, 250mA,  
LED for Output Energized**

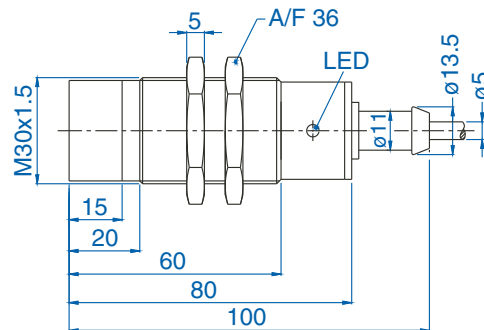
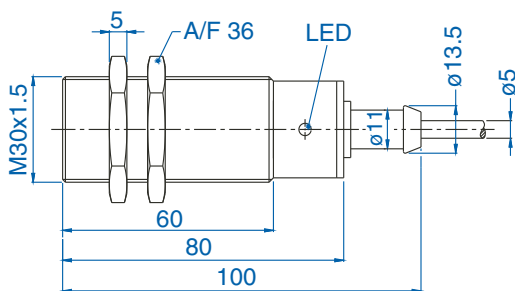
- IEC (529) IP67 (NEMA 1, 3, 4, 6, 12, 13) Protection
- Overload Protection
- Wire Break Resistance
- Transient Voltage Protection
- Temperature Range: -25 to 70°C (-13 to 158°F)



| M30 Flush Mount                   |                  | M30 Non-Flush Mount |
|-----------------------------------|------------------|---------------------|
| Sensing Distance                  | 10mm (.39 in.)   | 15mm (.59 in.)      |
| Cable or Connector Style Cat. No. | Cable            | Cable               |
| Normally Open                     | AIS30F10AW220-2M | AIS30N15AW220-2M    |
| Normally Closed                   | AIS30F10RW220-2M | AIS30N15RW220-2M    |
| Ripple Voltage                    | —                | —                   |
| Voltage Range                     | 90-250V          | 90-250V             |
| Supply Current                    | ≥10mA            | ≥10mA               |
| Max. Load Current                 | 250 mA           | 250 mA              |
| Voltage Drop Across Sensor        | ≤9V              | ≤9V                 |
| Max. Leakage Current              | ≤3mA             | ≤3mA                |
| Switching Frequency               | 10 Hz            | 10 Hz               |
| Hysteresis                        | ≤1.0mm           | ≤1.5mm              |
| Temperature Drift                 | ≤±20µm/K         | ≤±30µm/K            |
| Repeatability                     | ≤0.3mm           | ≤0.5mm              |

### Fixed Cable

PVC 2m (6ft. 6in.) encapsulated oil resistant cable. For other cable lengths and/or PUR cable, please consult Altech. Supplied with brass, nickel plated locknuts.



*Note: Sensor dimensions in mm.*

## Metric/in. Conversion Table

|                   |                    |
|-------------------|--------------------|
| 1.5 mm = .06 in.  | 23.0 mm = .08 in.  |
| 2.0 mm = .08 in.  | 28.0 mm = 1.10 in. |
| 4.0 mm = .16 in.  | 30.0 mm = 1.18 in. |
| 5.0 mm = .20 in.  | 32.0 mm = 1.26 in. |
| 6.0 mm = .23 in.  | 34.0 mm = 1.34 in. |
| 8.0 mm = .31 in.  | 40.0 mm = 1.57 in. |
| 10.0 mm = .39 in. | 50.0 mm = 1.97 in. |
| 12.0 mm = .47 in. | 51.0 mm = 2.01 in. |
| 15.0 mm = .59 in. | 60.0 mm = 2.36 in. |
| 18.0 mm = .70 in. | 80.0 mm = 3.12 in. |

This table converts millimeters to inches in reference to the illustrations included on these pages.

If you do not see a converted dimension, multiply mm by 0.03937 to convert to inches.

## Wiring Diagrams

Note: Wire colors are applicable on cables purchased from Altech

