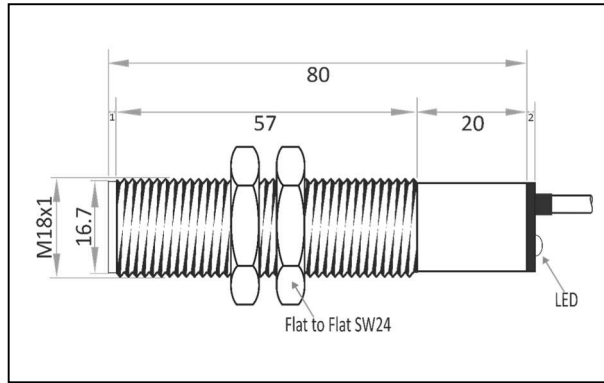


# Inductive Proximity Sensors

M18 | 5mm | NPN | NC | 300mA | 3 Wire | SCP

Ordering Code: D30C-1805-NB-3S

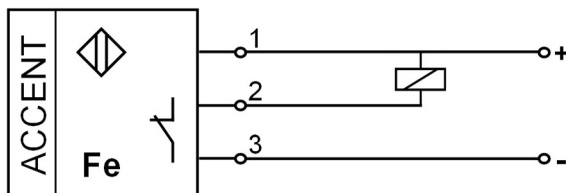


## Technical Specifications

|                                               |                                                    |
|-----------------------------------------------|----------------------------------------------------|
| Cylindrical Metal Housing Diameter/Pitch (mm) | M18 / 1                                            |
| Installation                                  | Flush                                              |
| Rated Operating Distance (Sn)                 | 5 mm                                               |
| Actual Sensing Distance (Sa)                  | 4 mm                                               |
| Minimum Target size (min)                     | 18 x 18 x 1 mm                                     |
| Repeat Accuracy                               | ≤ 10% mm                                           |
| Hysteresis                                    | ≤ 15% of Sn                                        |
| Operating Voltage                             | 10 - 30 V DC                                       |
| Residual Ripple (at operating Voltage)        | ≤ 10 %                                             |
| Output Circuit Type                           | NPN NC                                             |
| Max. Load Current (On state)                  | ≤ 300 mA                                           |
| Current Consumption (No Load)                 | < 13mA                                             |
| Residual Current                              | < 0.6 mA                                           |
| Switching Frequency                           | 2000 Hz                                            |
| O/P status Indicator                          | Red LED                                            |
| Voltage Drop                                  | ≤ 2.5V                                             |
| Correction factor - Brass / Al                | 0.5 / 0.4                                          |
| Operating Temperature Range                   | -10°C to 70°C                                      |
| Temperature Drift                             | ≤ 10% of Sn                                        |
| Over load & Short circuit Protection          | Yes                                                |
| Reverse Polarity Protection                   | Yes                                                |
| Environmental Protection                      | IP67                                               |
| Rated Insulation Voltage                      | ≤ 0.5 KV                                           |
| Dielectric strength                           | 1000VAC @ 50Hz – 1 min                             |
| Vibration resistance                          | 10Hz – 55Hz, 1mm in X, Y & Z axis for 30 mins each |
| Shock resistance                              | 30g for 1ms in X, Y & Z axis for 6 mins each       |
| Insulation Class                              | □                                                  |
| Housing Material                              | Nickel Plated Brass                                |

## Electrical Connections

|             |                                                              |
|-------------|--------------------------------------------------------------|
| Termination | 2 meter Prewired 3-Core PVC Cable (3 x 0.22mm <sup>2</sup> ) |
|-------------|--------------------------------------------------------------|



### Wire Colour Coding:

1. RED : +
2. GREEN : Output
3. BLACK : -

ACCENT CONTROLS