

## INDUCTIVE PROXIMITY SENSOR , Code- LR18XBF05DP

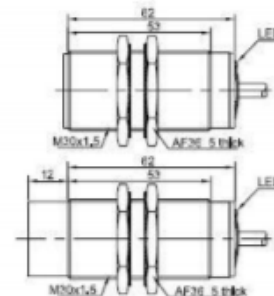
A proximity sensor is a sensor able to detect the presence of nearby objects without any physical contact. An inductive proximity sensor is a type of non-contact electronic proximity sensor that is used to detect the position of metal objects. The sensing range of an inductive switch is dependent on the type of metal being detected. Ferrous metals, such as iron and steel, allow for a longer sensing range, while nonferrous metals, such as aluminum and copper, can reduce the sensing range by up to 60 percent. Since the output of an inductive sensor has two possible states, an inductive sensor is sometimes referred to as an inductive proximity switch.

### General Attributes

- Mounting : Flash
- Sensing range : 5mm
- Power supply : 10...30VDC
- Housing size : M18\*51.5
- Thread size : M18\*1\*43
- Output : PNP NO
- Temperature drift :  $<\pm 10\%$ Sr
- Hysteresis : 1...20%
- Repeat accuracy :  $<3\%$
- Load current :  $<200\text{mA}$
- Residual voltage :  $<2.5\text{VDC}$
- Consumption current :  $<15\text{mA}$
- Protection circuit : Surge, overloaded, short-circuit, reverse polarity
- Indicator : Yellow LED
- Ambient temp. :  $-25...70^{\circ}\text{C}$
- Ambient RH : 35-95%
- Frequency [Hz] : 1000 Hz
- Protection degree : IP67
- Housing material : Nickel-copper Alloy

### Application Notes

- Position Detection
- Speed Sensing
- Limit Switching
- Pulse Generation
- Distance Measurement
- Gear tooth detection for motion monitoring
- Valve position control during processing
- Foil seal detection inside plastic caps
- Can position detection on a beverage line



Dimension drawing

For further information please visit : <https://goo.gl/sLwtd0>

