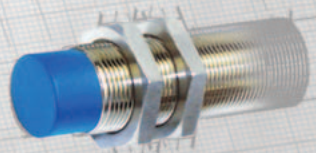

INDUCTIVE SENSORS

Inductive sensors detect the presence of metal objects presence in the sensible area.
They aren't influenced by non-metal materials.

WORKING PRINCIPLE

An oscillating electromagnetic field is generated in the sensible area. When a metal object enters the sensitivity field, it tends to decrease the amplitude of oscillation, creating in this way a switching in the output stage.

In inductive sensors range there are version with linear output in current or in voltage.

In these sensors the presence of metal objects is detected and turned into a signal proportional to the damping of the oscillator, which depends by the distance and metallic composition of the detected object.