**APPLICATIONS**

- Machine Tools
- Wood Industry
- Food Industry
- Conveyor Belts
- Parts sorting
- Speed
- Metal detection

**COMPETITORS**

Automation
Allen Bradley
Balluf
Direct
Omron
Sick
Turck



# How to Select a Sensor

## Sensor Size

- Barrel size
- Size of the sensor: standard sizes are M8, M12, M18, M30. Larger barrel size in general have larger sensing distances.
- Sensor length

## Sensing Distance

- Standard sensing distances for mild steel targets. Other targets have correction factors.

See table below:

- Flat targets are preferred. Targets larger than sensing head usually mean increased sensing distance.

| | |
|---|---|
| **Nickel** | **0.90xSn** |
| **Stainless-Steel** | **0.85xSn** |
| **Brass** | **0.50xSn** |
| **Aluminum** | **0.45xSn** |
| **Copper** | **0.40xSn** |

## Mounting

- "Flush - The resulting electromagnetic field is directed in front of the sensor face. Flush sensors have a narrow sensing field which may be desirable in certain applications. "
- "Non-Flush - Non flush sensors have a larger sensing distance than flush sensors."

## Output Configuration

- "Outputs can be normally open (NO) or normally closed (NC). DC Sensors are 3-wire, which can be a NPN or PNP output transistor. If the output load is connected to the negative power source then a sensor with a PNP transistor is required. If the output load is connected to the positive power source, a sensor with a NPN transistor is required."
- AC sensors are 2-wire devices.

## Housing Material

A variety of housing materials are available for different environments. Brass and stainless steel are common.

## Operating Voltage

Most common output voltages are 24DC or 20-250V AC

# Ordering Information

| AI | S | 12 | F | 2 | AP | 24 | R | - | Q65 |
|---|---|---|---|---|---|---|---|---|---|

**TYPE**
**AI** =Inductive

**Body Length**
**S** = Standard
**K** = Standard

**Barrel Size**
**08** = M8
**12** = M12
**18** = M18
**30** = M30

**Mounting**
**F** = Front
**R** = Rear

**Sensing Distance**
**1.5** = 1.5mm
**2.0** = 2.0mm
**4.0** = 4.0mm

**Output**
**AN** = NPN NO
**AP** = PNP NO
**UN** = NPN NO/NC
**UP** = PNP NO/NC
**AD - DC 2-wire NO**
**RD - DC 2-wire NC**
**AW - AC NO**
**RW - AC NC**

**Voltage**
**24** = 24V DC
220 = 90-250V AC

**Housing Material**
**L** = Plastic
**R** = Brass
**S** = Stainless

**Connection**
**2M** = 2m cable
**Q65** = M12 connector