

GENERAL DESCRIPTION

The MP18 is a capacitive type proximity sensor designed for sensing the presence of a wide range of materials. It uses automatic baseline tracking to compensate for gradual material changes and sensor contamination. It can also be manually reset to eliminate false triggers when sudden or large changes in the environment occur.

FEATURES

- ✓ The effects of gradual changes in material properties and environment (dielectric constant, moisture, temperature, dust accumulation) are minimized by **automatic baseline tracking**.
- ✓ Sudden or large changes in the environment that cause false triggers can be eliminated by performing a **manual baseline reset** (performed with no material present). Automatic baseline tracking occurs from that point on. There will be reduced sensitivity if the change in dielectric due to contamination and environmental conditions is large when compared to the material being sensed.
- ✓ **Optional Timeout Reset**. A timeout value can be specified that represents the maximum time that material can sensed in a given process. Sensing material for longer than the timeout value is considered a false trigger and will initiate an automatic reset. Automatic baseling tracking will continue from that point on. Specify a timeout value when ordering, default sensor has Timeout Disabled.
- ✓ **LED sensing indicator**.

SPECIFICATIONS

- Power requirements: 5-12VDC input, 25mA, regulated
- Operating temperature range: -40°F (-40°C) to 185°F (85°C)
- Output: Normally Open, Solid State Relay, 1.5KV isolation, 100mA, 350VAC max. (other outputs available)
- Optional RS-485 output available
- Calibration: Momentarily bring the RESET lead to ground to perform a manual baseline reset
- Sensor performs reset at power up.
- Sensing distance: 1 inch typical
- Connection: 6 foot potted cable, 5-conductor 22AWG (other connections available)
- Enclosure: M18-1 external threads, totally sealed PVC barrel

