

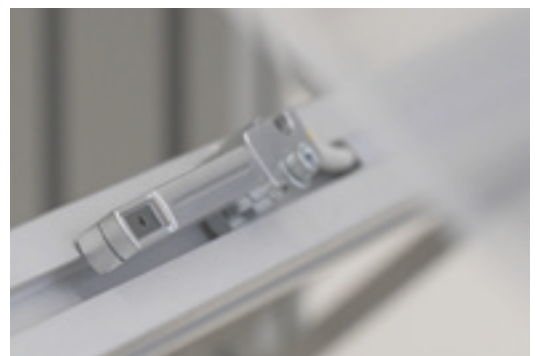
Quality improvement through residual charge measurement

In manufacturing of plastic, non-woven, film, printing, packaging and Hi-Tech devices, static charge is an outstanding issue and it is unavoidable. Static charge brings some impacts to products and processes, like attracting particles / dust, contamination of coating and lamination, downtime of equipment and breakdown of electronic components etc. Real-time, accurate and data-retrievable static charge monitoring is a critical point of in production. That is also required by Industry 4.0.

Hildebrand Technology's **IONsense** is a microprocessor-controlled and flexibly at any location installed static charge monitoring system. Static charge on product surface can be real-time measured and data are visualized and recorded by **IONcontrol**. Allowable range of charge can be pre-set and marked on screen. Once the measured charge exceeds the pre-set limit, an alarm will be activated, and the alarm signal can be also connected to customer's light tower system. The system can connect multiple sensors for measurement at more locations in productions due to the CAN field bus.



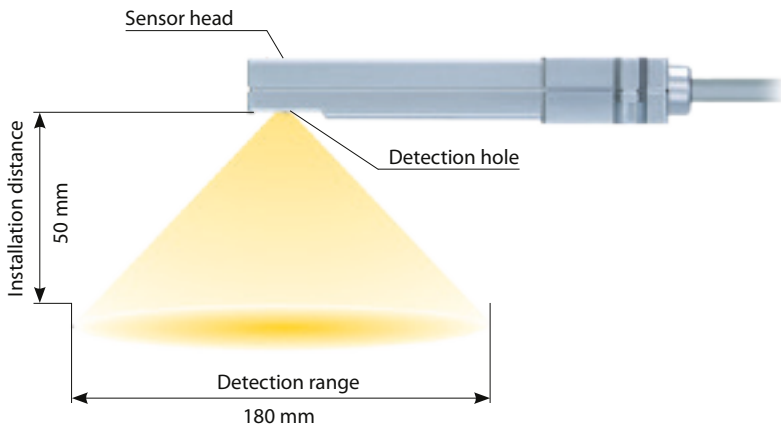
Applied in production line



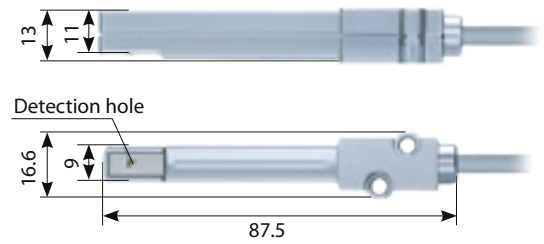
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Installation Principle



Dimension



Specification

Model	iONsense
Measuring Range	0 ~ ±20kV
Recommended measuring distance	50 mm
Output delay time	100 ms or shorter
Power Supply Voltage	24VDC±10%



Application Area

- Web (film) Production line
- Web (film) Slitter Machine
- Web Coating/Lamination Line
- Printing Line
- Flexible package material converting line
- Electronics assembly
- PCB assembly



Application Extension

In case of static charge exceeds pre-set allowable range, static charge elimination system must be implanted. This static charge monitoring system can directly connect with static discharging bars iONstream 4.0 without additional software.

About

Hildebrand Technology is an expert in static charge control and web /sheet cleaning. It leads the most advanced technology of static charging, discharging and measurement - AUTO DC Technology®. Combining with the latest static discharging bar, its web / sheet surface cleaning systems have been widely applied in various industries. Hildebrand Technology is a division of famous Gema Switzerland GmbH.