

## Application

Detection of liquids such as water, alcohols, ink, oil, etc. or solid objects such as plastic granules, glass, and organic materials.

## Industry

Printing & Graphics machines  
Packaging machines  
Plastic Injection-molding machines  
Lab Automation machines  
Wood-processing machines  
Process Automation machines

## Application Overview

In various industries, applications exist to measure liquid height inside closed containers; detect glass, organic materials, and plastics; or to measure difficult liquids such as alcohols, inks, or oils.

## Application Challenges

Engineers are faced with daunting application challenges that cannot be solved by inductive, photoelectric, or ultrasonic proximity sensors. Sensing of liquids inside closed containers or of non-metal objects from a distance when light interference or variable color are present can present substantial difficulties to the design engineer.

## Solution(s)

Unshielded capacitive sensors can reliably measure these types of materials without contact, through other materials, from distances as great as 30 millimeters.

Examples include the following:

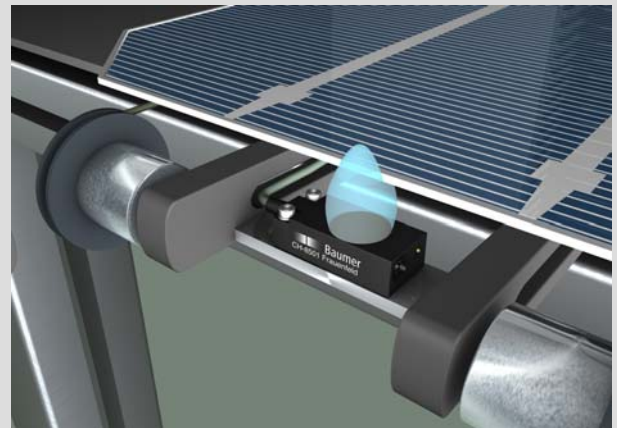
- CFAK 12 Series
- CFAK 18 Short Sensing Range
- CFAK 18 Long Sensing Range
- CFAK 30 Short Sensing Range
- CFAK 30 Long Sensing Range

## Supporting Documentation

- Baumer Website:
  - [CFAK 12 Series](#)
  - [CFAK 18 Short Sensing Range](#)
  - [CFAK 18 Long Sensing Range](#)
  - [CFAK 30 Short Sensing Range](#)
  - [CFAK 30 Long Sensing Range](#)



CFAK 30 series sensor senses chocolate through glass container wall from a distance



CFDK 30 series sensor senses wafers from a distance regardless of light interference

## For application information, contact:

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