Do you need to detect without background interference?

Use our NEW XUK8 sensor for material handling applications.

Schneider Electric’s OsiSense™ XUK8 photoelectric sensors are ideal for your conveying applications.

The first AC/DC diffuse with adjustable background suppression (BGS) photoelectric sensor with relay output in a small compact housing:

- With 0.75 meter sensing distance in BGS applications, the XUK8 is Best In Class for such a modest size.
- In addition to relay output, multiple timing functions (one shot and on/off delay) are standard feature.

The DC version adds additional sensing distance for precise detection up to 1 meter.

The set up is done with one teach on the background for less than 5% error at 0.55 m.

For worldwide certification requirements, these products are UL listed, CSA certified, CE marked and CCC marked.

Typical areas of application:
- Detection of product in a box or object on a conveyor all without sensing the background
- No color effect

Well suited for use in:
- conveying applications, palletizers, mail service, parcel detection, and more

Making Sense of Sensors™
OsiSense™ XUK8
Diffuse with background suppression (BGS)
Photoelectric Sensor

Product Specification

Catalog References:
- XUK8ARCTL2: AC/DC relay output, Sn: 0.75 m, cable 2m
- XUK8AKSNM12: PNP/NPN, Sn: 1 m, M12 connector
- XUK8AKSNL2: PNP/NPN, Sn: 1 m, cable 2m

Sensor Distances (Sn) and Environmental Characteristics:
- XUK8 AC/DC: Sn: 0.75 meter (0.55 on black)
- XUK8 DC PNP/NPN: Sn: 1 meter (0.85 on black)
- Operating Temperature: -25°C to +55°C
- Storage Temperature: -30°C to +70°C
- Vibration resistance: 7gn, amplitude ±1,5 mm (f = 10 to 55 Hz)
- Shock resistance: 30gn, duration 11 ms
- IP class: IP65, IP67, double insulation (IEC 60529)

Mechanical Characteristics:
- Compact shape 50x50x18 (mm), infrared detection
- Connection: M12 connector or cable [5 wires (AC/DC) and 3 wire (DC)]
- Material: Case PBT
  Lens PMMA

Electrical Characteristics:
- Type of emission: Infrared
- Voltage limits AC/DC: 20 to 264 Volts AC (including ripples)
- Voltage limits PNP/NPN: 10 to 36 Volts DC (including ripples)
- Current consumption: 35 mA (DC version)
- Switching capacity: 100 mA (DC version) and 3A (Relay output)
- Delays: first up: 200 ms
- Delays: response: 2 ms
- Delays: recovery: 2 ms
- Switching frequency: 250 Hz (DC), 20Hz (AC)

Put our sensing experience to work for you.
For application assistance or more information about Schneider Electric sensing solutions, please contact the Schneider Electric Sensor Competency Center at 1-800-435-2121 or visit www.SESensors.com.