

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](http://www.SESensors.com).

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