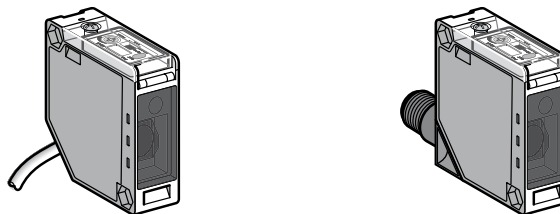


# Photo-electric sensors

OsiSense XU, general purpose  
With adjustable background suppression  
Mechanical display of setting  
DC supply. Solid-state output

## Compact design



|                               |   |
|-------------------------------|---|
| System                        | Diffuse with adjustable background suppression, long sensing distance with high accuracy (size of object $\geq 2$ mm) |
| Type of transmission          | Infrared  |
| Nominal sensing distance (Sn) | 1 m   |

## References

|                                 |                                |            |             |
|---------------------------------|--------------------------------|------------|-------------|
| 3-wire, PNP or NPN programmable | NO or NC programmable function | XUK8AKSNL2 | XUK8AKSNM12 |
| Weight (kg)                     |                                | 0.190      | 0.070       |

## Characteristics

|                              |   |
|------------------------------|---|
| Product certifications       | CE, UL, CSA   |
| Ambient air temperature      | For operation: - 25... + 55°C.<br>For storage: - 30... + 70°C   |
| Vibration resistance         | Conforming to IEC 60068-2-6<br>7 gn (f = 10...55 Hz)  |
| Shock resistance             | Conforming to IEC 60068-2-27<br>10 gn, duration 11 ms   |
| Degree of protection         | Conforming to IEC 60529<br>IP 65 (IP 30 with cover open).<br>NEMA 4X indoor use, 12 and 13 double insulation  |
| Materials                    | Case: PC, lenses: PMMA, cable: PVC  |
| Connection (1)               | Pre-cabled, diameter 6 mm, length 2 m, wire c.s.a.: 5 x 0.34 mm <sup>2</sup><br>M12 male connector, 4-pin, can be set at 2 positions (suitable female connectors, including pre-wired versions) |
| Rated supply voltage         | 12...24 V $\overline{\text{DC}}$ with protection against reverse polarity   |
| Voltage limits               | 10...36 V $\overline{\text{DC}}$ (including ripple)   |
| Switching capacity (sealed)  | $\leq 100$ mA with overload and short-circuit protection  |
| Voltage drop, closed state   | $\leq 1.5$ V  |
| Current consumption, no-load | 35 mA   |
| Maximum switching frequency  | 250 Hz  |
| Delays                       | First-up: $\leq 80$ ms; response: $\leq 2$ ms; recovery: $\leq 2$ ms  |

| Function table  | Function | Diffuse system                |                            |
|---|----------|-------------------------------|----------------------------|
|   |          | No object present in the beam | Object present in the beam |
| Output state (PNP or NPN) indicator:<br>yellow LED (illuminated when sensor output is ON) | NO       |                               |                            |
|   | NC       |                               |                            |

(1) For a 10 m long cable replace L2 by L10.