

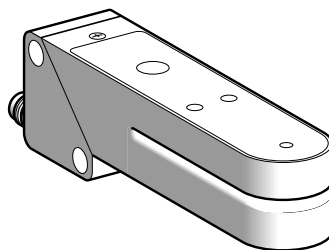
Photo-electric sensors

OsiSense XU Application, packaging series

For detection of labels (1)

DC supply. Solid-state output

Fork design



| | | |
|-------------------------------|-----------|-----------|
| System | Thru-beam | |
| Type of transmission | Infrared | Red/green |
| Nominal sensing distance (Sn) | 2 mm | |

References

| | | | |
|---------------------|------------------------------------|------------------|-------------------|
| 3-wire, PNP and NPN | NO or NC programmable function (2) | XUVK0252S | XUVK0252VS |
| Weight (kg) | 0.120 | | |

Characteristics

| | | |
|------------------------------|---|--|
| Product certifications | CE | |
| Ambient air temperature | For operation: 0...+55 °C. For storage: -20...+70 °C | |
| Vibration resistance | Conforming to IEC 60068-2-6 | Amplitude ±1.5 mm up to 55 Hz, 7 gn (f = 10...55 Hz) |
| Shock resistance | Conforming to IEC 60068-2-27 | 30 gn, duration 11 ms |
| Degree of protection | Conforming to IEC 60529 | IP 65 |
| Connection | M8 connector (suitable female connectors) | |
| Materials | Case: zinc alloy; lenses: glass | |
| Rated supply voltage | ≡ 12...24 V with protection against reverse polarity | |
| Voltage limits | ≡ 10...30 V (including ripple) | |
| Switching capacity (sealed) | ≤ 100 mA with overload and short-circuit protection | |
| Voltage drop, closed state | ≤ 1.5 V | |
| Output clamping resistor | 10 kΩ | |
| Current consumption, no-load | ≤ 50 mA | |
| Maximum switching frequency | 25 kHz | |
| Delays | First-up: ≤ 30 ms; response < 100 μs; recovery < 100 μs | |
| Indicator lights | Output state | Yellow LED |
| | Sensor ready | Green LED |
| | Read error | Red LED |

| Function table | Function | Thru-beam system | |
|---|----------|------------------------------|---------------------------|
| | | No label present in the beam | Label present in the beam |
| Output state (PNP or NPN) indicator: yellow LED (illuminated when sensor output is ON) | NC | | |
| | NO | | |

(1) Applications: the infrared transmission beam sensor **XUVK0252S** is suitable for the detection of all types of opaque labels; the red/green transmission sensor **XUVK0252VS** is suitable for the detection of all types of labels of different colours.

(2) This sensor is adjustable using teach mode: the NC or NO function is selected when performing the first stage of teaching for setting-up the sensor (see programming using teach mode, page 67).