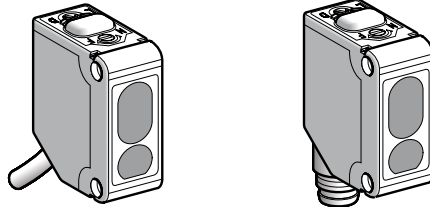


# Photo-electric sensors

OsiSense XU, general purpose  
With adjustable background and foreground suppression  
DC supply. Solid-state output

## Compact design



<b>System</b>	Diffuse with adjustable background and foreground suppression, long sensing distance with high accuracy
<b>Type of transmission</b>	Red
<b>Nominal sensing distance (Sn)</b>	20...300 mm
<b>Differential travel</b>	5% or less of the sensing distance
<b>Adjustment</b>	Potentiometer with 5 turns

## References

<b>3-wire</b>	NO or NC programmable function	PNP	NPN	PNP	NPN	PNP
		XUM8APCNL2	XUM8ANCNL2	XUM8APCNM8	XUM8ANCNM8	XUM8APCNL03M12
<b>Weight (kg)</b>		0.065	0.065	0.020	0.020	0.035

## Characteristics

<b>Product certifications</b>		CE, cURus		
<b>Ambient air temperature</b>		For operation: -25...+55°C For storage: -30...+70°C		
<b>Vibration resistance</b>	Conforming to IEC 60068-2-8	20 gn max, amplitude: 3 mm, frequency: 10... 500 Hz		
<b>Shock resistance</b>	Conforming to IEC 60068-2-27	50 gn		
<b>Degree of protection</b>	Conforming to IEC 60529	IP 67		
<b>Material</b>		Case: PBT Lenses: polycarbonate		
<b>Indicator lights</b>	Output state	Orange LED		
	Power on, help with setting	Green LED		
<b>Connection</b>		2 m cable Conductor c.s.a.: 0.2 mm <sup>2</sup>	M8 4-pin connector	Remote M12 connector, 0.3 m cable Conductor c.s.a.: 0.2 mm <sup>2</sup>
<b>Rated supply voltage</b>		12...24 V $\overline{\text{DC}}$ with protection against reverse polarity		
<b>Voltage limits</b>		10...30 V $\overline{\text{DC}}$ (including ripple)		
<b>Switching capacity</b>		$\leq 100$ mA with overload and short-circuit protection		
<b>Immunity to ambient light</b>	Natural light	3000 lux		
	Incandescent bulb	3000 lux		
<b>Voltage drop, closed state</b>		< 2 V		
<b>Current consumption</b>		$\leq 20$ mA		
<b>Response time</b>		$\leq 1$ ms		

## Function table

	Function	Diffuse system	
		No object present in the beam	Object present in the beam
State of output (PNP or NPN) and orange LED (illuminated when sensor output is ON)	NO (position L)		
	NC (position D)		

## Detection curves

### Variation of usable sensing distance

