

# Photo-electric sensors

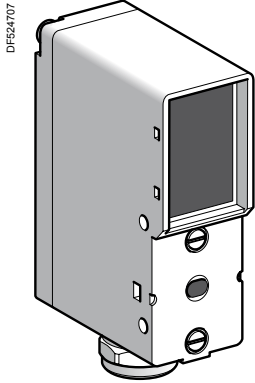
OsiSense XU Application

Conveying and access control series

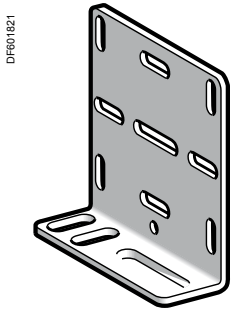
Compact design with teach mode adjustment

Five-wire AC or DC, 1 CO relay output

Three-wire DC, solid-state output



XUY95●●



XUZA49

Diffuse system (1)				
Sensing distance (Sn) m	Function	Output	Reference	Weight kg
<b>DC</b>				
1.5	NO/NC programmable	PNP/NPN	XUY954S	0.130
4	NO/NC programmable	PNP/NPN	XUY952S	0.130
<b>AC or DC</b>				
1.5	NO/NC programmable	Relay	XUY954R	0.150
4	NO/NC programmable	Relay	XUY952R	0.150
Polarised reflex system (2)				
Sensing distance (Sn) m	Function	Output	Reference	Weight kg
<b>DC</b>				
6	NO/NC programmable	PNP/NPN	XUYB954S	0.130
10	NO/NC programmable	PNP/NPN	XUYB952S	0.130
<b>AC or DC</b>				
6	NO/NC programmable	Relay	XUYB954R	0.150
10	NO/NC programmable	Relay	XUYB952R	0.150
Fixing accessory				
Description	Reference			Weight kg
Metal fixing bracket	XUZA49			0.120

(1) On 300 x 300 mm white paper

(2) With Ø 84 mm reflector

## Characteristics

	XUY P954S	XUY P954R	XUY P952S	XUY P952R	XUY B954S	XUY B954R	XUY B952S	XUY B952R
<b>Product certifications</b>	CE, cULus for XUY954S/952S and XUYB954S/952S							
<b>Connection</b>	Screw terminals							
<b>Nominal sensing distance (Sn)</b>	1.5		4		6		10	
Adjustment using teach (fine or standard mode)								
<b>Type of transmission</b>	LED				Infrared			
<b>Degree of protection</b>	Conforming to IEC 60529				IP 65 and IP 67			
<b>Ambient air temperature</b>	For storage		°C - 20...+ 80					
	For operation		°C 0...+ 60					
<b>Materials</b>	Polycarbonate							
<b>Immunity to ambient light</b>	Incandescent bulb		Lux 10 000 at 5° to the optical axis					
	Natural light		Lux 20 000 at 5° to the optical axis					
<b>Indicator lights</b>	Green LED		Output signal					
	Red LED		Dirty optics, limit of detection, alignment assistance, time delay active, time function indicator					
<b>Voltage limits</b>	10...30 V		●		●		●	
(including ripple)	~ 20...250 V		●		●		●	
<b>Current consumption, no-load</b>	mA 50		50		50		50	
	VA -		2		2		2	
<b>Type of output</b>	PNP/NPN		Relay		PNP/NPN		Relay	
<b>Switching capacity</b>	PNP/NPN		mA 100 with overload and short-circuit protection					
	Relay		A 3 (max. continuous)					
<b>Voltage drop, closed state</b>	PNP/NPN		V At 100 mA: < 2; at 10 mA: < 1					
<b>Maximum switching frequency</b>	Hz 1000		25		60		25	
<b>Delays</b>	Response and recovery		ms 0.5		20		8	
<b>Test input</b>	Active		V < 1.4		-		< 1.4	
	Inactive		V > 3		-		> 3	
<b>Output time delay</b>	Type		Retriggerable: leading edge and/or trailing edge					
	Duration of each increment		ms 0 to 11 s in 23 adjustment increments of 50 ms, then 0.5 s per press					
<b>Adjustment</b>	Using teach mode and/or fine manual adjustment							

■ Applications

- Detection of belt breakage
- Material handling
- Access control