## References, characteristics

## **Photo-electric sensors**

Osiris<sup>®</sup> Application, packaging series Colour mark readers (1) d.c. supply. Solid-state output

Miniature design



System		Diffuse		
Type of transmission		Red	Green	
Nominal sensing distance (Sn)		15 mm	15 mm	
References				
pro	ght or dark ogrammable vitching	XUM H15353R	XUM H15353G	
pro	ght or dark ogrammable vitching	XUM J15353R	XUM J15353G	
Veight (kg)		0.080	0.080	
Characteristics				
Product certifications		C€, UL, CSA		
Ambient air temperature		Operation :- 25+ 55 °C. Storage :- 30+ 70 °C		
Vibration resistance		7 gn, amplitude ± 1.5 mm (f = 1055 Hz), conforming to IEC 60068-2-6		
Shock resistance		50 gn, 3 axes, 3 times, conforming to IEC 60068-2-27		
Degree of protection		IP 67 conforming to IEC 529		
Connection Materials		Pre-cabled, diameter 4.5 mm, length 2 m, wire c.s.a. : 6 x 0.2 mm <sup>2</sup> Case : ABS/PC ; lens : PMMA/PC ; cable : PVC		
Minimum detectable width of mark		1 mm		
Maximum linear speed of mark		2 m/s (for 2 mm wide mark)	2 m/s (for 2 mm wide mark)	
Max. horizontal inclination of reader (to eliminate stray reflection)		30°	15°	
Detectable colours		Since the light source of the XUR is monochromatic red or green, this can cause problems when reading marks in the yellow, orange, red and white bands (in the case of red beam transmission) or light green, yellow and white bands (in the case of green beam transmission). Correct operation can only be assured by the use of a colour othe than those stated above for the respective transmission beam colours.		
Rated supply voltage		1224 V with protection against reverse polarity		
Voltage limits		1030 V (including ripple)		
Switching capacity (sealed)		≤ 100 mA with overload and short-circuit protection		
Voltage drop, closed state		≤ 1.5 V		
Current consumption, no-load		≤ 35 mA		
Maximum switching frequency		500 Hz		
Delays		Response : 1 ms ; recovery : 1 ms		
Function table		Function Detection of light mark on light background   No mark present in the beam Mark present in the beam	Detection of light mark on light background No mark present Mark present in the beam in the beam	
Output state (PNP or NPN)		switching		
indicator : yellow LED (illuminated when detector output is ON)		Dark		
		switching – V – – V		

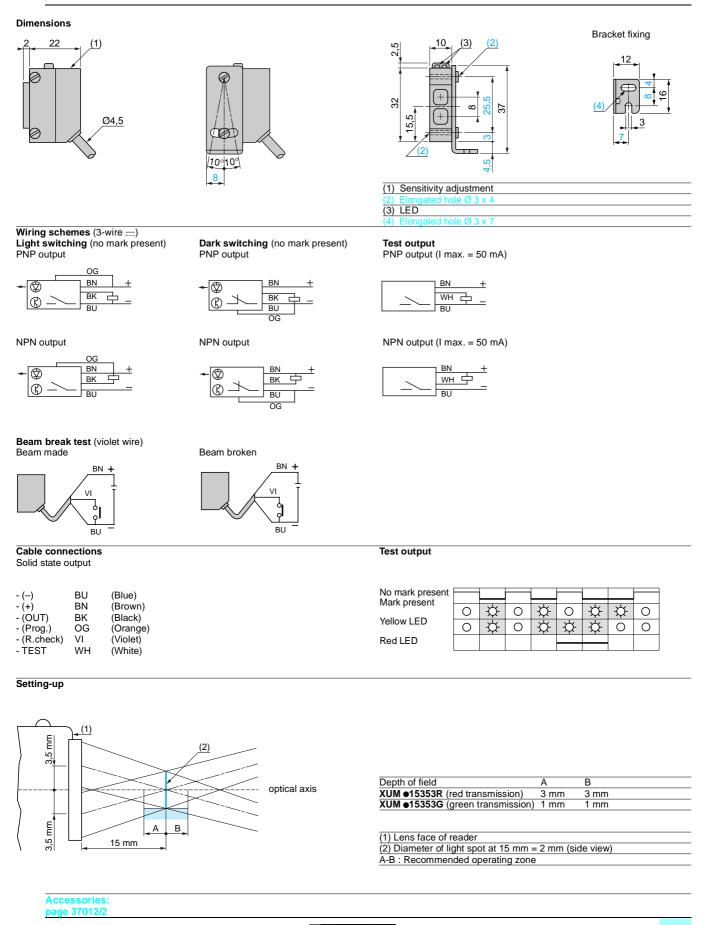
(1) Applications : detection of contrasting colours on matt, reflective or embossed surfaces. Colour mark reading used in conjunction with automatic packaging, batching or tube filling machinery, labelling machines, heat sealing machines, thermo-formers, printing machines, etc.

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## Dimensions, schemes, setting-up

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