

## Photo-electric sensors

XU ranges Application, material handling and hoisting series.

With 4...20 mA and 0...10 V analog output signal. DC supply, solid-state output. "Time of flight" technology.

Product type	Laser transmission sensors. Distance measurement	Laser transmission sensors. Distance measurement with background suppression
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 IO-Link

 IO-Link



Applications	<ul style="list-style-type: none"> <li>■ Packaging and conveying.</li> <li>■ Material handling.</li> </ul>	
Range	0.1... 5 m/0.33...16.40 ft	0... 5 m/0...16.40 ft
Type of light	Class 1 laser, red, 650 nm	
Resolution	< 5 mm (12-bit)	–
Repeat accuracy	< 0.3%	–
Linearity	± 30 mm	–
Differential travel	40 mm	
Materials	Front panel (screen): PMMA. Casing: PC-ABS shock-resistant. M12 connectors: metal	
Degree of protection	IP 67 and IP 69K, depending on connector	
Operating temperature	- 40... + 60°C / - 40... + 140°F (- 40... + 50°C / - 40... + 117°F for XUK8TE2MM12)	
Storage temperature	- 40... + 80°C / - 40... + 176°F	
Dimensions (without connectors)	50 x 50 x 23 mm/1.97 x 1.97 x 0.91 in.	
Supply voltage + U <sub>B</sub>	18...30 V <sup>DC</sup>	
No-load supply current	≤ 60 mA	
Output current I <sub>e</sub>	≤ 100 mA	
Switching frequency f/Response time	≤ 500 Hz	
Type of outputs	1 x 4...20 mA and 0...10 V analog output + 1 auto-detect PNP/NPN switching output or IO-Link output	1 or 2 auto-detect PNP/NPN switching outputs or IO-Link output
Certifications	ECOLAB, CE, UKCA, cULus	

References	XUK8TAE1MM12 XUK8TAE2MM12	XUK8TAKSMM12 XUK8TAKDMM12
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Laser transmission sensors. Anti-collision mode and tandem mode	Accessories
	Brackets, clamps and connectors



Applications	■ Hoisting and mobile equipment.	Brackets and clamps for fixing sensors. Connectors for connecting sensors.
Range	0.3... 70 m/0.98...230 ft	
Type of light	Class 1 laser, red, 650 nm	
Resolution	< 17 mm (12-bit) for scaling the analog output between 1 and 70 m	
Repeat accuracy	<11 mm (for the discrete outputs)	
Linearity	± 70 mm	
Differential travel	120 mm	
Materials	Front panel (screen): PMMA. Casing: PC-ABS shock-resistant. M12 connectors: metal	
Degree of protection	IP 67 and IP 69K, depending on connector	
Operating temperature	- 30... + 50°C / - 22... + 122°F	
Storage temperature	- 30... + 60°C / - 22... + 140°F	
Dimensions (without connectors)	50 x 50 x 23 mm/1.97 x 1.97 x 0.91 in.	
Supply voltage + U <sub>B</sub>	18...30 V <sup>DC</sup>	
No-load supply current	≤ 60 mA	
Output current I <sub>e</sub>	100 mA	
Switching frequency f/Response time	10 ms	
Type of outputs	1 x 4...20 mA analog output + 2 PNP or NPN switching outputs	
Certifications	CE, UKCA, cULus	

References	XUK9TAH2MM12	XUZAS●●● XUZCPV11V12●● XUZCPV12V12●●
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