

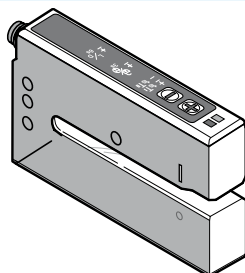
Ultrasonic sensors

OsiSense XU Application, packaging series

For detection of transparent labels

DC supply. Solid-state output

Fork design



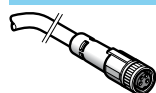
System	Thru-beam			
Type of transmission	Ultrasonic			
Nominal sensing distance (Sn)	3 mm			
Depth	69 mm			
References				
4-wire	NC or NO programmable function	XUVU06M3KSNM8	XUVU06M3PSNM8	XUVU06M3NSNM8
		PNP/NPN	PNP	NPN
Remote adjustment		No	Yes	
Adjustment	By numeric potentiometer (+/- buttons), static and dynamic teach modes.			
Protection of settings	By locking keypad			
Weight (kg)	0.130			

Characteristics

Product certifications		CE, IEC 60947-5-2
Materials		Aluminium case
Connection		M8, 4-pin connector
Detection performance	Minimum length of label	2 mm
	Minimum distance between 2 labels	2 mm
	Maximum flow rate	180 m/min
	Detection accuracy	+/- 0.20 mm at 120 m/min
Supply	Rated supply voltage	12...24 V with protection against reverse polarity
	Voltage limits	10...30 V (including ripple)
	Current consumption, no-load	45 mA
	Residual voltage	
	At 100 mA	< 2 V
	At 10 mA	< 1 V
Output	Maximum rated current	100 mA with overload and short-circuit protection
	Maximum switching frequency	1500 Hz
	Indicator light	
	Output state	Yellow LED
	Adjustment and keypad locking	Red LED
Delay		300 µs, response and recovery
Environment	Operating temperature	+ 5...+ 55° C
	Storage temperature	- 20° C..+ 70° C
	Degree of protection	IP 65

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

References of pre-wired connectors



XZCP0941L●



XZCP1041L●

Type of connector	For use with forks	Type	Cable length (m)	Reference	Weight kg
Female, M8, 4 pins	XUVU06M3KSNM8, XUVU06M3PSNM8, XUVU06M3NSNM8.	Straight	2	XZCP0941L2	0.080
			5	XZCP0941L5	0.180
		Elbowed	2	XZCP1041L2	0.080
			5	XZCP1041L5	0.180

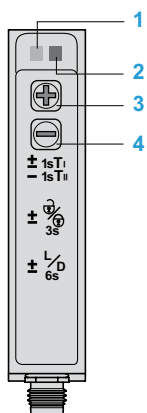
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Presentation (adjustment and indicators)



- 1 Yellow LED "ON": Output activated
- 2 Red LED "ON": Adjustments and keypad locking
- 3, 4 Sensitivity adjustment
- 3 + 4 Teach mode and automatic adjustment of sensitivity (press time < 3 seconds)
- 3 + 4 Keypad locking (3 s ≤ press time < 6 s)
- 3 + 4 NO/NC (press time ≥ 6 s)

Connections

Connector

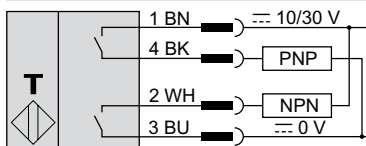


Pin no. - colour

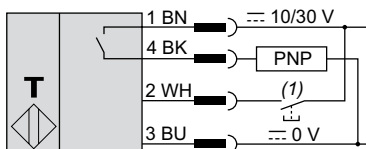
- 1 BN: Brown
- 2 WH: White (remote teaching)
- 3 BU: Blue
- 4 BK: Black

Wiring schemes

PNP/NPN: XUVU06M3KSNM8

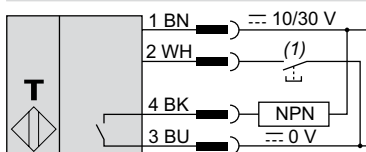


PNP: XUVU06M3PSNM8



(1) Remote teaching.

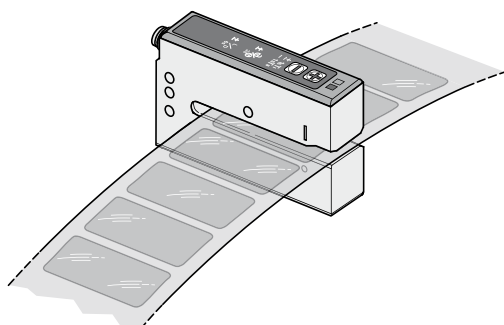
NPN: XUVU06M3NSNM8



(1) Remote teaching.

Application example

Detection of transparent labels on opaque or transparent strip



Dimensions (in mm)

