

Main

Commercial Status	Commercialised
Range of product	OsiSense XU
Series name	Application
Electronic sensor type	Photo-electric sensor
Sensor name	XUY
Sensor design	Fork
Detection system	Thru beam
Emission	Infrared laser, modulated (class 1) conforming to IEC 825-1
Passage width	30 mm
Passage depth	42 mm
Material	Metal/Plastic
Supply circuit type	DC
Wiring technique	4-wire
Discrete output type	PNP and NPN
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 male connector M8, 4 pins
Product specific application	Detection of reference marks Detection of transparent object Detection on vibrating rail Detection on small conveyor
[Sn] nominal sensing distance	30 mm

Complementary

Enclosure material	Painted aluminium and polyamide/glass
Keypad type	Yellow
Minimum object diameter for detection	0.05 mm
Type of output signal	Discrete
Output type	Solid state
Status LED	1 LED (yellow) for output state 1 LED (red) for adjustment mode and keypad locking
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply voltage limits	10...30 V DC
Switching capacity in mA	100 mA (overload and short-circuit protection)
Switching frequency	10 kHz
Voltage drop	< 2 V (closed state)
Current consumption	40 mA (no-load)
Load capacitance	330 nF
Delay response	-20...20 µs
Setting-up	Self teaching
Product weight	0.055...0.128 kg

Environment

Product certifications	CE CULus
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-30...80 °C
Immunity to ambient light	5000 lux with incandescent bulb 10000 lux with natural light
Vibration resistance	7 gn, amplitude = +/- 0.75 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn (duration = 11 ms) conforming to IEC 60068-2-27
IP degree of protection	IP65 conforming to IEC 60529

Contractual warranty

Period	18 months
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