Product data sheet
Characteristics

XUKR1NSMM12
photoelectric sensor - color mark - Sn 20 mm - NC - M12 connector

Green Premium™ Product

Main

Range of product	OsiSense XU
Series name	Application packaging
Electronic sensor type	Photo-electric sensor
Sensor name	XUK
Sensor design	Compact 50 x 50
Detection system	Diffuse
Emission	White LED
[Sn] nominal sensing distance	19 mm spot Ø 3.5 mm
Material	Plastic
Switching frequency	<= 5 kHz
Type of output signal	Discrete
Supply circuit type	DC
Wiring technique	3-wire
Discrete output type	NPN
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 male connector M12 adjustable through 90°, 4 pins
Product specific application	Colour mark
Sale per indivisible quantity	1

Complementary

Enclosure material	ABS
Lens material	Glass
Resolution	0.5 mm
Depth of field	+/- 2 mm
Maximum passing speed of object	2.5 m/s, minimum detected mark width: 1 mm
Output type	Solid state
Output function governance	Light or dark teaching
Add on output	Without
Add on input	Remote teaching
Status LED	Stability: 1 LED (green) Error: 1 LED (green/red (flashing)) Output state: 1 LED (yellow)
[Us] rated supply voltage	12...24 V DC
Supply voltage limits	DC
Switching capacity in mA	<= 100 mA (reverse polarity, overload and short-circuit protection)
Maximum voltage drop	<2 V (closed state)
Current consumption	<= 30 mA no-load
Maximum delay response	0.1 ms
Maximum delay recovery	0.1 ms
Setting-up	Sensitivity adjustment with teach mode
Depth	50 mm
Height	50 mm
Width	15 mm
Net weight	0.045 kg

Environment

Product certifications	CE CULus
Ambient air temperature for operation	-10…55 °C
Ambient air temperature for storage	-20…70 °C
Vibration resistance	+/-0.5 mm (f = 10…55 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn (duration = 11 ms) for 6 shocks on each axis conforming to IEC 60068-2-27
IP degree of protection	IP65 conforming to IEC 60529

Packing Units

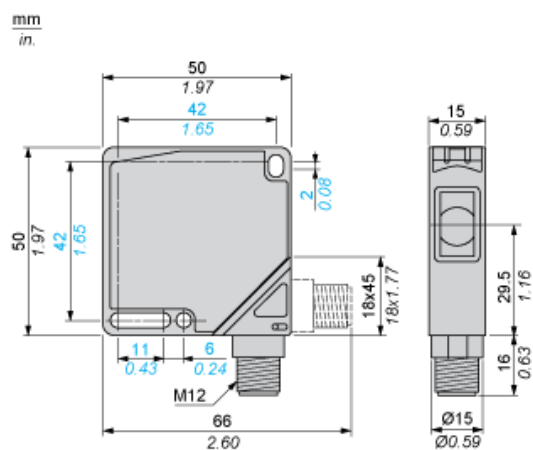|	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	50 g
Package 1 Height	3.5 cm
Package 1 width	8.1 cm
Package 1 Length	8.2 cm
Unit Type of Package 2	S02
Number of Units in Package 2	42
Package 2 Weight	2.505 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

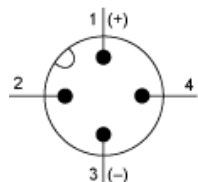## Contractual warranty

Warranty	18 months

Dimensions

mm
in.

Wiring Schemes

Connector Scheme

1/   10...30 VDC
Brown :
2/   Adjustment input
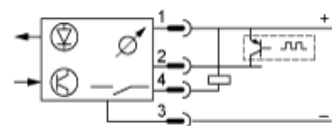White :
3/   0 V
Blue :
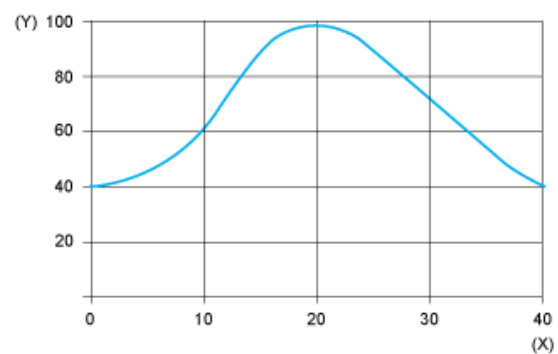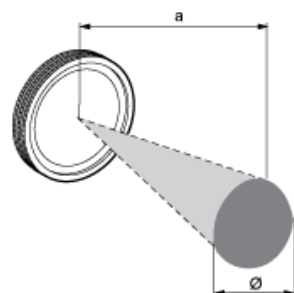4/   Output
Black :

NPN Output

Curves

Detection Curve

(y)   % of signal
(x)   Detection distance (mm)

Detection Zone and Spot Size

a (mm)	Ø (mm)
19	3.5