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

Buy online

Complementary

Enclosure material	ABS
Lens material	Glass
Resolution	0.5 mm
Depth of field	+/- 2 mm
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	1 LED (green) for stability 1 LED (green/red (flashing)) for error 1 LED (yellow) for output state
[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)
Voltage drop	<= 2 V (closed state)
Current consumption	<= 30 mA (no-load)
Delay response	<= 0.1 ms
Delay recovery	<= 0.1 ms
Setting-up	Sensitivity adjustment with teach mode
Depth	50 mm
Height	50 mm

Width	15 mm
Product weight	0.045 kg

Environment

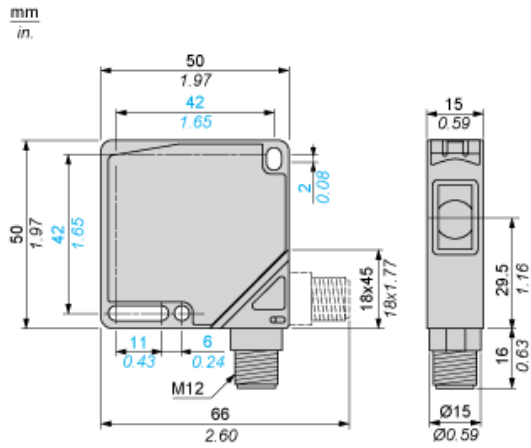| Product certifications	CE CULus
Ambient air temperature for operation	-10...55 °C
Ambient air temperature for storage	-20...70 °C
Vibration resistance	+/-0.5 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn (duration = 11 ms) (6 shocks on each axis) conforming to IEC 60068-2-27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

Offer Sustainability

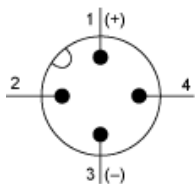| Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0623 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold

Contractual warranty

Warranty period	18 months

Schneider Electric

Dimensions

Wiring Schemes

Connector Scheme

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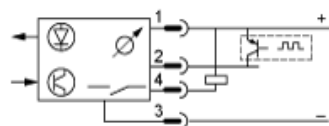2/   Adjustment input
White :
3/   0 V
Blue :
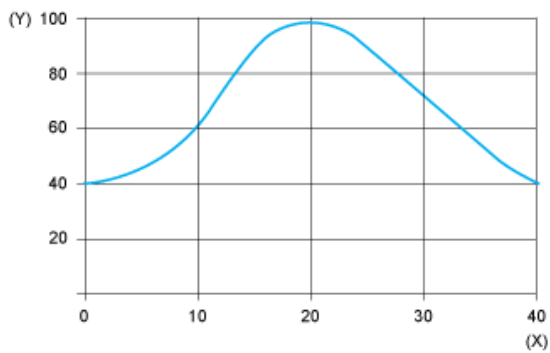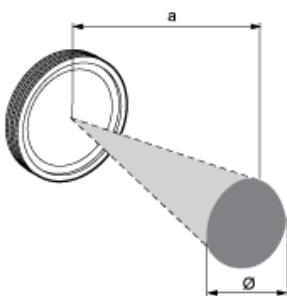4/   Output
Black :

NPN Output

Curves

Detection Curve

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

Detection Zone and Spot Size

a (mm)	Ø (mm)
19	3.5