

XUK8ARCTL2

photo-electric sensor - XUK - BGS - Sn 0.7m -
24..240VAC/DC - cable 2m



Main

Range of product	OsiSense XU
Series name	General purpose single mode
Electronic sensor type	Photo-electric sensor
Sensor name	XUK
Sensor design	Compact 50 x 50
Detection system	Diffuse with background suppression
Material	Plastic
Type of output signal	Discrete
Supply circuit type	AC/DC
Wiring technique	5-wire
Discrete output function	1 C/O
Electrical connection	Cable
Cable length	2 m
Product specific application	-
Emission	Infrared diffuse with background suppression
[Sn] nominal sensing distance	0.75 m diffuse with background suppression

Complementary


Enclosure material	PBT
Lens material	PMMA
Maximum sensing distance	0.75 m diffuse with background suppression
Output type	Relay
Cable composition	5 x 0.34 mm ²
Wire insulation material	PVC
Cable outer diameter	6 mm
Status LED	1 LED (green) for supply on 1 LED (yellow) for output state
[Us] rated supply voltage	24...240 V AC/DC
Supply voltage limits	20...264 V AC 20...264 V DC
Switching capacity in mA	3 A (cos ϕ = 1 for 0.5 million cycles at 1 operating cycle per second at 250 V)
Switching frequency	<= 20 Hz

Voltage drop	<= 1.5 V (closed state)
Current consumption	<= 35 mA (no-load)
Power consumption in W	2 W AC
Delay first up	< 60 ms
Delay response	< 25 ms
Delay recovery	< 25 ms
Setting-up	Self teaching
Electrical durability	500000 cycles, cos f = 1, 60 cyc/mn at 250 V
Depth	50 mm
Height	50 mm
Width	18 mm
Product weight	0.15 kg

Environment

Product certifications	CE Ecolab
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-30...70 °C
Vibration resistance	7 gn (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn (duration = 11 ms) conforming to IEC 60947-5-2
IP degree of protection	IP65 double insulation conforming to IEC 60529

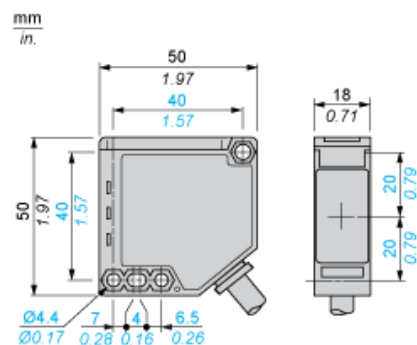
Offer Sustainability

RoHS (date code: YYWW)	Compliant - since 1131 - Schneider Electric declaration of conformity  Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold

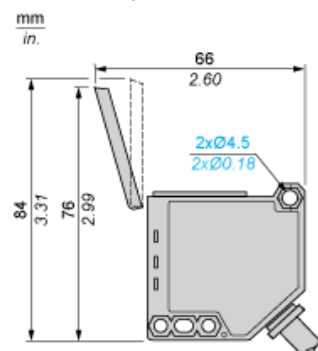
Contractual warranty

Warranty period	18 months
-----------------	-----------

Dimensions

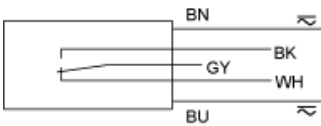


With cover open



Connections and Schemes

Cable Connection, Relay Output

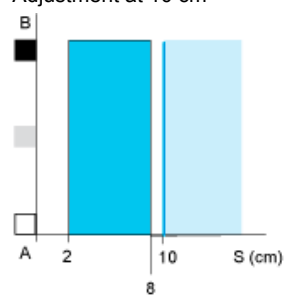


AC/DC : BN (Blue)
AC/DC : BN (Brown)
Relay control : GY (Grey)
NO : BK (Black), detection of object
NC : WH (White), detection of object absence

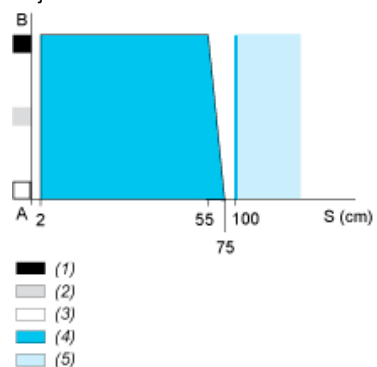
Detection Curves

Variation of Usable Sensing Distance S_u

Adjustment at 10 cm

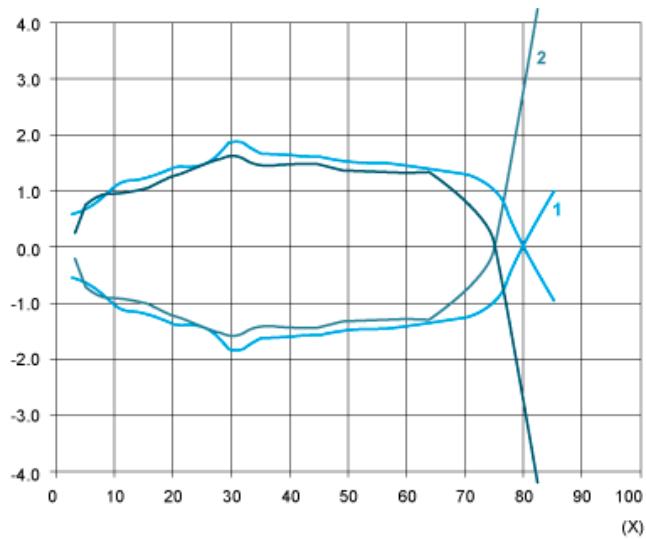


Adjustment at 1 m



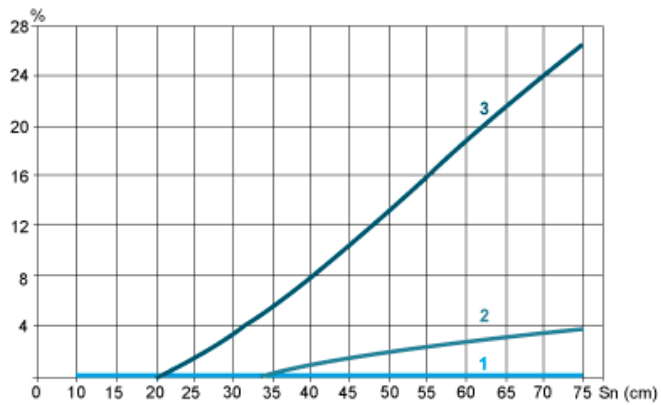
- A-B : Object reflection coefficient
- (1) Black 6%
 - (2) Grey 18%
 - (3) White 90%
 - (4) Sensing range
 - (5) Non sensing zone (matt surfaces)

Detection Curves



1 : White 90%
 2 : Grey 18%
 Screen: 20 x 20 cm

Relative Difference in Sensing Distances According to Object Colour



1 : White 90%
 2 : Grey 18%
 3 : Black 6%