

XUK0AKSAL2

photo-electric sensor - XUK - multi - Sn 0..30m
- 12..24VDC - cable 2m

Product availability: Stock - Normally stocked in distribution facility



Main

| | |
|-------------------------------|--|
| Range of product | OsiSense XU |
| Series name | General purpose multimode |
| Electronic sensor type | Photo-electric sensor |
| Sensor name | XUK |
| Sensor design | Compact 50 x 50 |
| Detection system | Multimode |
| Material | Plastic |
| Type of output signal | Discrete |
| Supply circuit type | DC |
| Wiring technique | 3-wire |
| Discrete output type | PNP or NPN |
| Discrete output function | 1 NO or 1 NC programmable |
| Electrical connection | Cable |
| Cable length | 6.56 ft (2 m) |
| Product specific application | - |
| Emission | Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex |
| [Sn] nominal sensing distance | 0.92 ft (0.28 m) diffuse with background suppression 2.62 ft (0.8 m) diffuse 13.12 ft (4 m) polarised reflex need reflector XUZC50 98.43 ft (30 m) thru beam need a transmitter XUK0AKSAL2T |

Complementary

| | |
|---------------------------|---|
| Enclosure material | PBT |
| Lens material | PMMA |
| Maximum sensing distance | 114.83 ft (35 m) thru beam 0.92 ft (0.28 m) diffuse with background suppression 3.94 ft (1.2 m) diffuse 18.7 ft (5.7 m) polarised reflex |
| Output type | Solid state |
| Add on output | With alarm output, <= 50 mA with overload and short-circuit protection |
| Wire insulation material | PvR |
| Status LED | 1 LED (green) supply 1 LED (red) instability 1 LED (yellow) output state |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection |
| Supply voltage limits | 10...36 V DC |
| Switching capacity in mA | <= 100 mA (overload and short-circuit protection) |
| Switching frequency | <= 250 Hz |
| Voltage drop | <= 1.5 V (closed state) |
| Current consumption | <= 35 mA (no-load) |
| Delay first up | < 200 ms |
| Delay response | < 2 ms |
| Delay recovery | < 2 ms |
| Setting-up | Self-teaching |
| Depth | 1.97 in (50 mm) |

| | |
|----------------|------------------------|
| Height | 1.97 in (50 mm) |
| Width | 0.71 in (18 mm) |
| Product weight | 0.39 lb(US) (0.175 kg) |

Environment

| | |
|---------------------------------------|---|
| Product certifications | CE UL CSA |
| Ambient air temperature for operation | -13...131 °F (-25...55 °C) |
| Ambient air temperature for storage | -40...158 °F (-40...70 °C) |
| Vibration resistance | 7 gn, amplitude = +/- 1.5 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 double insulation conforming to IEC 60529 |

Ordering and shipping details

| | |
|-----------------------|--------------------------------|
| Category | 22481 - SENSORS, PHOTOELECTRIC |
| Discount Schedule | DS2 |
| GTIN | 00785901700197 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 0.37 |
| Returnability | Y |
| Country of origin | ID |

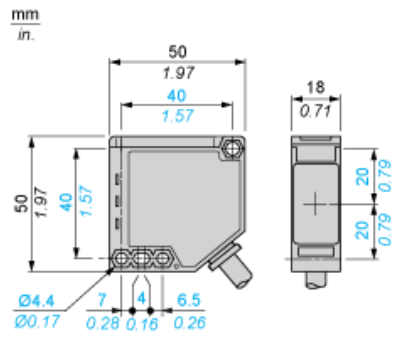
Offer Sustainability

| | |
|----------------------------------|--|
| RoHS (date code: YYWW) | Compliant - since 0903 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| Product environmental profile | Available |
| Product end of life instructions | Available |
| California proposition 65 | WARNING: This product can expose you to chemicals including: |
| ----- Substance 1 | Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and |
| ----- Substance 2 | Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. |
| ----- More information | For more information go to www.p65warnings.ca.gov |

Contractual warranty

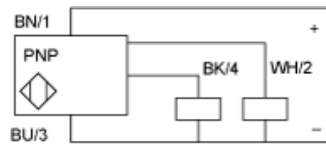
| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

Dimensions



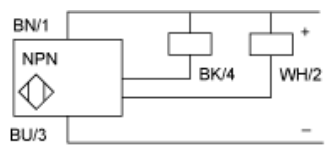
Wiring Schemes

PNP Output



(+) Brown
BN :
(-) Blue
BU :
(OUT)Black
Output)
BK :
(Alarm)White
WH :

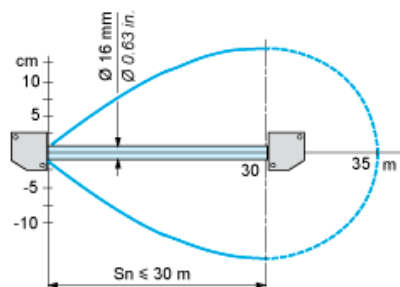
NPN Output



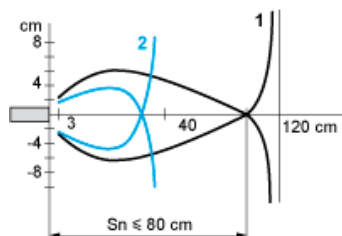
(+) Brown
BN :
(-) Blue
BU :
(OUT)Black
Output)
BK :
(Alarm)White
WH :

Detection Curves

With Thru-beam Accessory (Thru-beam)

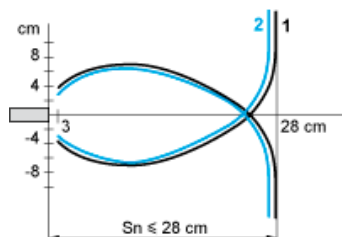


Without Accessory (Diffuse)



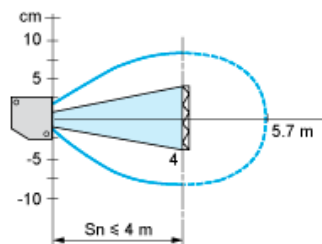
1 : White 90%
2 : Grey 18%
Object 10 x 10 cm

Without Accessory (Diffuse with background suppression)



1 : White 90%
2 : Grey 18%
Object 10 x 10 cm

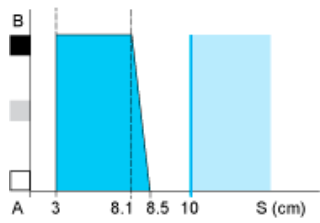
With reflector (Polarised reflex)



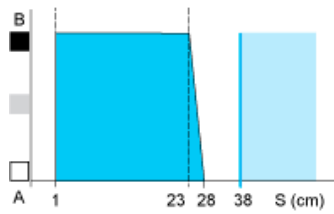
With reflector XUZC50

Variation of Usable Sensing Distance S_u (Without accessory, with adjustable background suppression)

Teach Mode at Minimum



Teach Mode at Maximum



- (1) Black
- (2) Grey
- (3) White
- (4) Sensing range
- (5) Non sensing zone (matt surfaces)

A-B : Object reflection coefficient

- (1) Black 6%
- (2) Grey 18%
- (3) White 90%
- (4) Sensing range
- (5) Non sensing zone (matt surfaces)

X-ON Electronics

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