

# Product Datasheet

## Characteristic

# XUK8AKSNM12

photo-electric laser sensor - XUK - BGS - Sn 1m - 12..24VDC - M12



## 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	DC
wiring technique	3-wire
discrete output type	PNP or NPN
discrete output function	1 NO or 1 NC programmable
electrical connection	1 male connector M12, 4 pins
product specific application	-
emission	Infrared laser, modulated diffuse with background suppression class 1
[Sn] nominal sensing distance	3.28 ft (1 m) diffuse with background suppression

## Complementary

enclosure material	PC
lens material	PMMA
maximum sensing distance	3.28 ft (1 m) diffuse with background suppression
minimum object diameter for detection	0.08 in (2 mm)
output type	Solid state
wire insulation material	PVC
status LED	1 LED yellow)output state 1 LED green)supply
[Us] rated supply voltage	12...24 V DC 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
maximum voltage drop	<1.5 V closed state)

current consumption	<= 30 mA no-load
maximum delay first up	300 ms
maximum delay response	2 ms
maximum delay recovery	2 ms
setting-up	Sensitivity adjustment by potentiometer
depth	1.97 in (50 mm)
height	1.97 in (50 mm)
width	0.71 in (18 mm)
net weight	0.08 lb(US) (0.035 kg)
kit composition	With XUZA51 bracket fixing

## Environment

product certifications	CE Ecolab
ambient air temperature for operation	-4...140 °F (-20...60 °C)
ambient air temperature for storage	-22...158 °F (-30...70 °C)
vibration resistance	7 gn +/- 1.5 mm 10...55 Hz) IEC 60068-2-6
shock resistance	30 gn 11 ms) IEC 60068-2-27
IP degree of protection	IP65 double insulation IEC 60529

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	Free of Substances of Very High Concern above the threshold
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	ENVPEP111232EN
Circularity Profile	ENVEOLI111207EN