Product data sheet Characteristics

XUK8TAE2MM12

photo-electric sensor - XUK - diffuse Sn 5m 1output auto PNP/NPN 1output 4.20mA



Main

Range of product	OsiSense XU
Series name	Application assembly Application material handling
Electronic sensor type	Photo-electric sensor
Sensor name	XUK
Sensor design	Compact 50 x 50
Detection system	Diffuse distance sensor
Material	Plastic
Type of output signal	Analogue + discrete
Wiring technique	5-wire
Discrete output type	PNP or NPN
Discrete output function	1 NO or 1 NC programmable
Analogue output range	420 mA
Electrical connection	1 male connector M12, 5 pins
Product specific application	Distance measurement on object
Emission	Red laser diffuse distance sensor class 1 IEC 60825-1
[Sn] nominal sensing distance	16.40 ft (5 m) diffuse distance sensor

Complementary

Complementary	
Enclosure material	ABS/PC
Lens material	PMMA
Maximum sensing distance	16.40 ft (5 m) diffuse distance sensor
Output type	Solid state Analog
Add on input	External teach
Status LED	LED yellow)output state LED green/yellow)supply on/output state
[Us] rated supply voltage	24 V DC reverse polarity protection
Supply voltage limits	1830 V DC
Switching capacity in mA	<= 100 mA overload and short-circuit protection)
Switching frequency	<= 500 Hz
Maximum voltage drop	<2 V
Current consumption	<= 60 mA no-load
Maximum delay first up	300 ms
Maximum delay response	1.2 ms
Maximum delay recovery	1.2 ms
Setting-up	Using teach button or remote teaching
Depth	1.97 in (50 mm)
Height	1.97 in (50 mm)
Width	0.91 in (23 mm)
Net weight	0.08 lb(US) (0.035 kg)

Environment

Product certifications	Ecolab CULus CE
Ambient air temperature for operation	-4122 °F (-2050 °C), UL -40140 °F (-4060 °C)
Ambient air temperature for storage	-40176 °F (-4080 °C)
Vibration resistance	7 gn +/- 1.5 mm 1055 Hz) IEC 60068-2-6
Shock resistance	30 gn 11 ms) IEC 60068-2-27
IP degree of protection	IP67 IEC 60529 IP69K DIN 40050

Ordering and shipping details

Category	22481 - SENSORS, PHOTOELECTRIC
Discount Schedule	DS2
GTIN	00785901007241
Nbr. of units in pkg.	1
Package weight(Lbs)	0.13 lb(US) (0.06 kg)
Returnability	Yes
Country of origin	DE

Packing Units

i doking office		
Unit Type of Package 1	PCE	
Package 1 Height	1.18 in (3 cm)	
Package 1 width	2.36 in (6 cm)	
Package 1 Length	3.54 in (9 cm)	
Unit Type of Package 2	S01	
Number of Units in Package 2	28	
Package 2 Weight	4.07 lb(US) (1.844 kg)	
Package 2 Height	5.91 in (15 cm)	
Package 2 width	5.91 in (15 cm)	
Package 2 Length	15.75 in (40 cm)	

Offer Sustainability

WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
Pro-active compliance (Product out of EU RoHS legal scope) EVEL RoHS Declaration
Yes
₫Yes

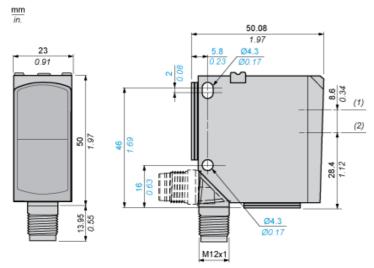
Contractual warranty

-	
Warranty 18 r	months

Product data sheet Dimensions Drawings

XUK8TAE2MM12

Dimensions



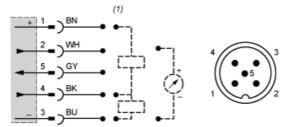
- (1) Transmitter optical axis
- (2) Receiver optical axis

Product data sheet Connections and Schema

XUK8TAE2MM12

Connections and Schema

Connector Wiring



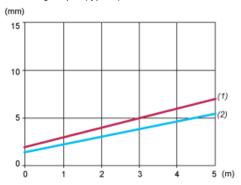
- Auto-detect
- (1) 1: + UB (BN: Brown)
- 2: QA (WH: White) 3: -UB (BU: Blue) 4: Q (BK: Black) 5: IN (GY: Grey)

Product data sheet **Performance Curves**

XUK8TAE2MM12

Curves

Size of light spot (typical)



Vertical (y) Horizontal (x) (1) (2)

0... Size 15

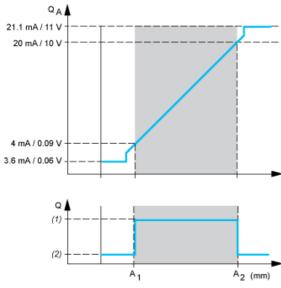
mm:

0...5 Distance

m :

Curves

Output characteristic curve



QA: Analogue output Q: Switching output

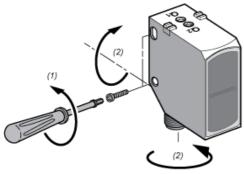
(1) High

(2) Low

Product data sheet Mounting and Clearance

XUK8TAE2MM12

Mounting



- < 1,5 Nm (13 lb-in) < 1 Nm (8.85 lb-in)