XUKC1NSMM12

Main

Range of product	OsiSense XU
Series name	Application packaging
Electronic sensor type	Photo-electric sensor
Product specific application	Colour
Sensor name	XUK
Sensor design	Compact 50 x 50
Detection system	Diffuse
Emission	White LED
[Sn] nominal sensing distance	0.79 in (20 mm) spot Ø 4 mm
Material	Plastic
Supply circuit type	DC
Type of output signal	Discrete
Wiring technique	3-wire
Discrete output type	NPN
Discrete output function	1 NO
Electrical connection	1 male connector M12 adjustable through 90°, 8 pins

Complementary

Enclosure material	ABS
Lens material	Glass
Type of colour processing	RGB
Output type	Solid state
Output function governance	Light on
Add on input	Synchro + locking
Signalling function	4-digit display
Status LED	1 LED (yellow) output state OUT 3 LEDs (green) output active
[Us] rated supply voltage	12...24 V DC
Supply voltage limits	10...30 V DC
Switching capacity in mA	<= 100 mA (reverse polarity, overload and short-circuit protection)
Switching frequency	<= 1500 Hz
Voltage drop	<= 2 V (closed state)
Current consumption	<= 60 mA (no-load)
Time delay range	10 ms 20 ms 30 ms 40 ms 5 ms
Delay response	0.335 ms
Delay recovery	0.335 ms
Setting-up	Operating mode Sensitivity adjustment with teach mode Tolerance level
Depth	1.97 in (50 mm)
Height	1.97 in (50 mm)
Width	0.98 in (25 mm)
Product weight	0.19 lb(US) (0.085 kg)

Environment

| product certifications	CE
	CULus
ambient air temperature for operation	14...131 °F (-10...55 °C)
ambient air temperature for storage	-4...158 °F (-20...70 °C)
vibration resistance	7 gn, amplitude = +/- 0.5 mm (f = 10...55 Hz) on the 3 axes 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

| Not Green Premium product	Not Green Premium product
Compliant - since 0623 - Schneider Electric declaration of conformity	Compliant - since 0623 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and	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.	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	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months

Dimensions
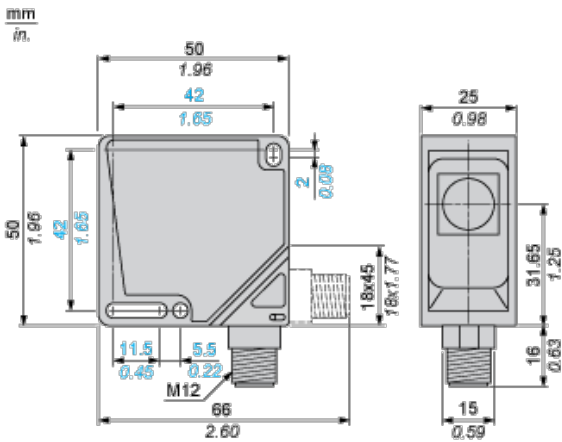
Wiring Schemes

Sensor Connector Pin View
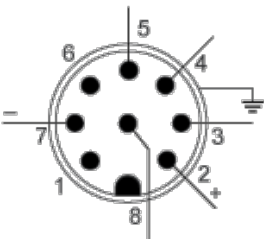
Pin N°	Type	Colour (2)
1	-	WH (white)
2	10...30 VDC	BN (brown)
3	Output 1	TAN (tan)

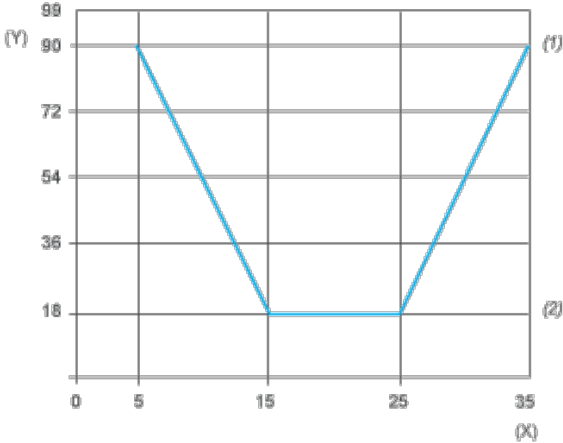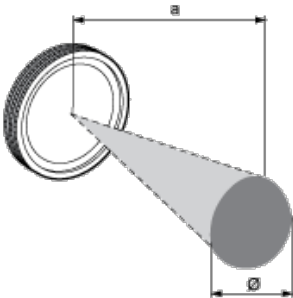| 4	Output 2	YE (yellow)
5	Output 3	GY (grey)
6	-	PK (pink)
7	0 V	VT (violet)
8	Synchro	RD (red)
-	Screening	TR (transparent)

NPN Output + Synchro Input
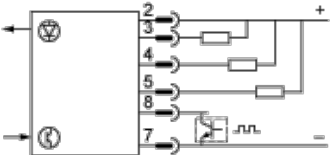
Curves

Detection Curve

Detection distance related to object's degree of reflection

(y) Object reflection

(x) Detection distance (mm)

(1) White Yellow light

(2) Dark blue Black

Detection Zone and Spot Size

a (mm)	Ø (mm)
20	4