

# Product data sheet

## Characteristics

# XUKC1PSMM12

Photoelectric sensors XU, XUK, diffuse, color, Sn  
20 mm, 12...24 VDC, M12



Product availability: Non-Stock - Not normally stocked in distribution facility

Price\*: 1138.00 USD



### Main

Range of Product	Telemecanique Photoelectric sensors 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 ln (20 mm) Ø 4 mm
Material	Plastic
Supply circuit type	DC
Type of output signal	Discrete
Wiring Technique	3-wire
Discrete output type	PNP
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	Output state OUT 1 LED yellow) Output active 3 LEDs green)
[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
Maximum 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
Maximum delay response	0.335 Ms
Maximum delay recovery	0.335 Ms
Setting-up	Tolerance level Operating mode Sensitivity adjustment with teach mode
Maximum Depth	1.97 In (50 mm)
Maximum Height	1.97 In (50 mm)
Maximum Width	0.98 In (25 mm)
Net 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 +/- 0.5 mm 10...55 Hz)on the 3 axes IEC 60068-2-6
Shock resistance	30 gn 11 ms) 6 shocks on each axis IEC 60068-2-27
IP degree of protection	IP65 conforming to IEC 60529

## Ordering and shipping details

Category	22481 - SENSORS, PHOTOELECTRIC
Discount Schedule	DS2
GTIN	03389110702125
Nbr. of units in pkg.	1
Package weight(Lbs)	3.25 Oz (92 g)
Returnability	No
Country of origin	IT

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.77 In (4.5 cm)
Package 1 width	3.15 In (8 cm)
Package 1 Length	4.80 In (12.2 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	21
Package 2 Weight	5.21 Lb(US) (2.361 kg)
Package 2 Height	5.91 In (15 cm)
Package 2 width	11.81 In (30 cm)
Package 2 Length	15.75 In (40 cm)

## Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Diisodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
RECh Regulation	<a href="#">RECh Declaration</a>
RECh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>

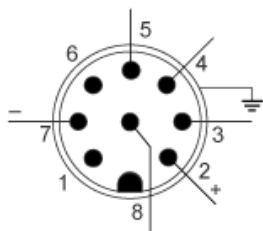
## Contractual warranty

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



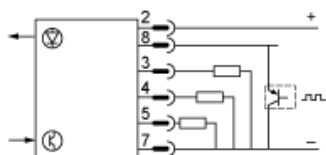
## Wiring Schemes

### 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)

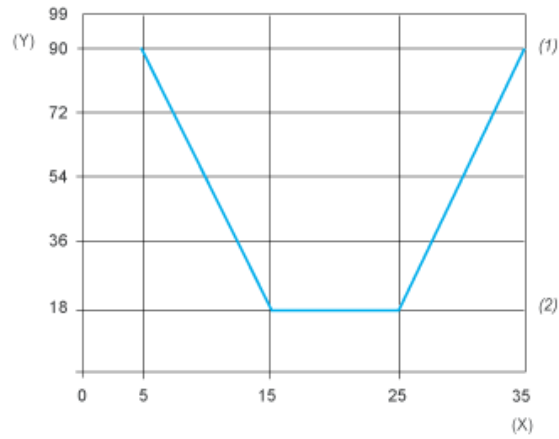
### PNP Output + Synchro Input



Curves

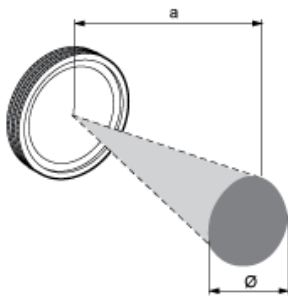
Detection Curve

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

Product Life Status : **Commercialised**