# XUM0APSAL10

photo-electric sensor - XUM - multi - Sn 0..10m - 12..24VDC - cable 10m



#### Main

Mairi	
Range of product	Telemecanique Photoelectric sensors XU
Series name	General purpose multimode
Electronic sensor type	Photo-electric sensor
Sensor name	XUM
Sensor design	Miniature
Detection system	Multimode
Material	Plastic
Type of output signal	Discrete
Supply circuit type	DC
Wiring technique	3-wire
Discrete output type	PNP
Discrete output function	1 NO or 1 NC programmable
Electrical connection	Cable
Cable length	10 m
Product specific application	-
Emission	Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex
[Sn] nominal sensing distance	3 M polarised reflex need reflector XUZC50 10 M thru beam need a transmitter XUM0AKSAL10T 0.1 M diffuse with background suppression

0.4 m diffuse

#### Complementary

Enclosure material	PBT
Lens material	PMMA
Maximum sensing distance	14 M thru beam 4 M polarised reflex 0.1 M diffuse with background suppression 0.55 m diffuse
Output type	Solid state
Add on output	With alarm output, 50 mA
Wire insulation material	PvR
Status LED	1 LED (green) for supply 1 LED (red) for instability 1 LED (yellow) for output state
[Us] rated supply voltage	1224 V DC with reverse polarity protection
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	35 mA no-load
Maximum delay first up	100 ms
Maximum delay response	2 ms
Maximum delay recovery	2 ms
Setting-up	Self-teaching
Depth	20 mm
Height	34 mm
Width	12 mm

### **Environment**

Product certifications	CSA[RETURN]UL[RETURN]CE
Ambient air temperature for operation	-2555 °C
Ambient air temperature for storage	-4070 °C
Vibration resistance	7 gn, amplitude = +/- 1.5 mm (f = 1055 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 IP67 double insulation conforming to IEC 60529

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

### Contractual warranty

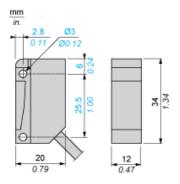
Warranty	18 months



# Product data sheet Dimensions Drawings

# XUM0APSAL10

### **Dimensions**

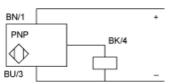


### Product data sheet Connections and Schema

## XUM0APSAL10

### Wiring Schemes

### Receiver, PNP Output

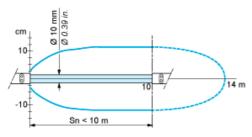


BN: Brown BU: Blue BK: Black

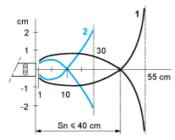
### XUM0APSAL10

#### **Detection Curves**

### With Thru-beam Accessory (Thru-beam)



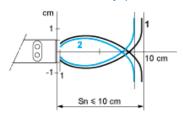
### Without Accessory (Diffuse)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

### Without Accessory (Diffuse with background suppression)

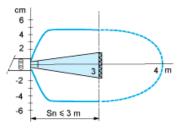


1: White 90%

2: Grey 18%

Object 10 x 10 cm

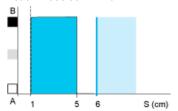
### With reflector (Polarised reflex)



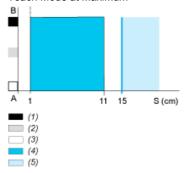
With reflector XUZC50

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

Teach Mode at Minimum



Teach Mode at Maximum



- A-B: Object reflection coefficient
  (1) Black 6%
  (2) Grey 18%
  (3) White 90%
  (4) Sensing range
  (5) Non sensing zone (matt surfaces)