



# Photoelectric sensors XU, XU5, diffuse, analog, Sn 0.4 m, 12...24VDCM12

XU5M18AB20D

M	aı	n

Range of product	Telemecanique Photoelectric sensors XU
Series name	Application material handling
Electronic sensor type	Photo-electric sensor
Sensor name	XU5
Sensor design	Cylindrical M18
Detection system	Diffuse
Material	Metal
Line of sight type	Axial
Type of output signal	Analogue
Supply circuit type	DC
Wiring technique	3-wire
Discrete output type	PNP
Analogue output range	420 mA
Electrical connection	1 male connector M12, 4 pins
Product specific application	-
Emission	Infrared diffuse
[Sn] nominal sensing distance	0.050.4 m diffuse

## Complementary

Enclosure material	Nickel plated brass
Lens material	PMMA
Maximum sensing distance	0.4 m
Add on output	With analogue output
Status LED	1 LED (green) for output state
[Us] rated supply voltage	1224 V DC with reverse polarity protection
Supply voltage limits	1030 V DC
Switching capacity in mA	420 mA
Switching frequency	<= 20 Hz
Current consumption	<= 30 mA no-load

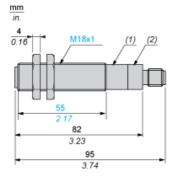
Maximum delay first up	50 ms
Setting-up	Sensitivity adjustment with potentiometer
Diameter	18 mm
Length	95 mm
Net weight	0.075 kg
Environment	
Product certifications	CE UL CSA
Ambient air temperature for operation	-2555 °C
Ambient air temperature for storage	-4070 °C
Vibration resistance	25 gn, amplitude = +/- 2 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	IP67 conforming to IEC 60529
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.4 cm
Package 1 Width	9.2 cm
Package 1 Length	4.2 cm
Package 1 Weight	88.0 g
Unit Type of Package 2	S01
Number of Units in Package 2	22
Package 2 Height	15.0 cm
Package 2 Width	15.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	2.154 kg
Offer Sustainability	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
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 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
Contractual warranty	

## **Product data sheet**

## **XU5M18AB20D**

**Dimensions Drawings** 

## **Dimensions**





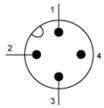
- (1) (2) Potentiometer Green LED

## XU5M18AB20D

Connections and Schema

## **Connections and Schemes**

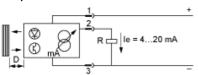
### **Connector Scheme**



(+) Analogue output

## Wiring Schemes

### **Output Current**

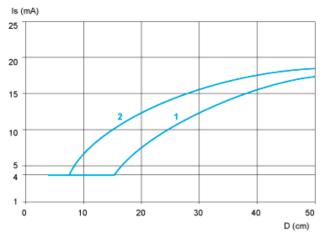


**Performance Curves** 

### Curves

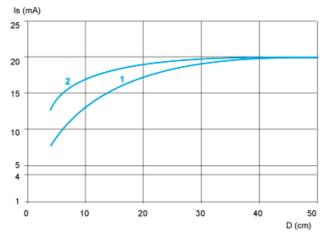
## **Output Signal (Related to Distance of Object)**

#### Potentiometer Set at Maximum



White 90% object Grey 15% object

#### Potentiometer Set at Minimum



White 90% object Grey 15% object

## Recommended replacement(s)