

Product data sheet

XU5M18AB20D

Photoelectric sensor XU5, diffuse, Sn 0.4 m, M12, analog

Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	Application material handling
Sensor name	XU5
Electronic sensor type	Photo-electric sensor
Sensor design	Cylindrical M18
Product specific application	Not applicable
ETIM classification	ETIM 9 - EC001821 - Diffuse reflective photoelectric sensor
Material	Metal
Lens material	PMMA
Enclosure material	Nickel plated brass
[Sn] nominal sensing distance	0.05-0.4 m diffuse
Maximum sensing distance	0.4 m
Wiring technique	3-wire
Diameter	18 mm
Detection system	Diffuse
Indivisible sale quantity	1

Complementary

Sensing range	> 0.3...1 m
Electrical connection	1 male connector M12, 4 pins
Supply voltage limits	10-30 V DC
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply circuit type	DC
Switching capacity in mA	4...20 mA
Current consumption	<= 30 mA no-load
Emission	Infrared diffuse
Setting-up	Sensitivity adjustment with potentiometer
Analogue output range	-
Type of output signal	Analogue

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Add on output	With analogue output
Discrete output type	PNP
Status LED	1 LED (green) for output state
Delay first up	50 ms
Length	95 mm
Product weight	0.075 kg

Environment

IP degree of protection	IP67 conforming to IEC 60529
Ambient air temperature for operation	-25...55 °C
Ambient air temperature for operation	-25-55 °C
Ambient air temperature for storage	-40...70 °C
Shock resistance	30 gn (duration = 11 ms) conforming to IEC 60068-2-27
Vibration resistance	25 gn, amplitude = +/- 2 mm (f = 10-55 Hz) conforming to IEC 60068-2-6

Offer Sustainability

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

Warranty

Warranty	18 months

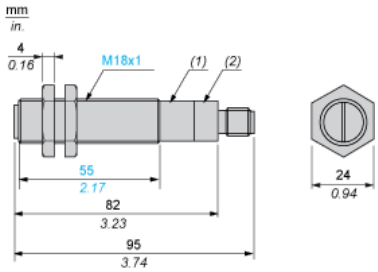
Packing Units

Country of origin	FR (France)
Unit type of package 1	PCE
Number of units in package 1	1
New Package 1 GTIN-13	3666916037164
Package 1 height	6.4 cm
Package 1 width	9.2 cm
Package 1 length	4.2 cm
Package 1 weight	0.088 kg
Unit type of package 2	S01
Number of units in package 2	22
New Package 2 GTIN 14	13666916037161
Package 2 height	15 cm
Package 2 width	15 cm
Package 2 length	40 cm
Package 2 weight	2.154 kg

Unit type of package 3	S02
Number of units in package 3	44
New Package 3 GTIN 14	23666916037168
Package 3 height	15 cm
Package 3 width	30 cm
Package 3 length	40 cm

Technical Drawings

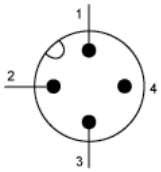
Dimensions



- (1) Potentiometer
- (2) Green LED

Connections and Schemes

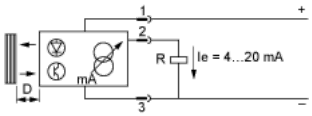
Connector Scheme



- 1 : (+)
- 2 : Analogue output
- 3 : (-)

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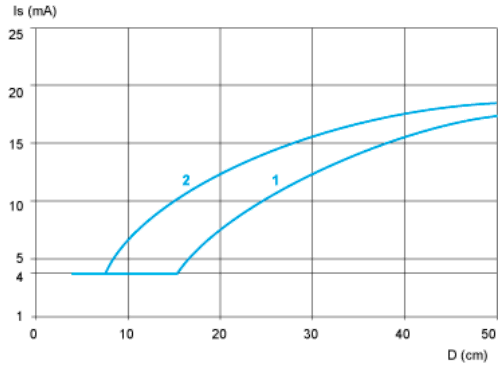
Wiring Schemes



- 1 : (+)
- 2 : Analogue output
- 3 : (-)

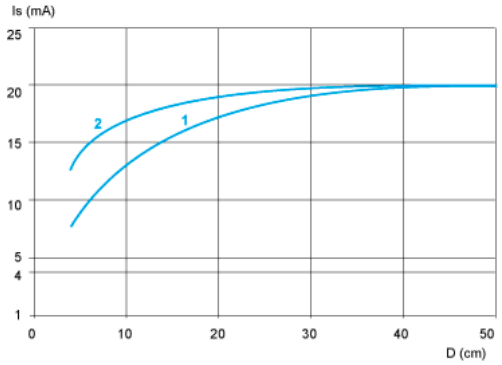
Curves

Output Signal (Related to Distance of Object)



- 1 : White 90% object
- 2 : Grey 15% object

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