

Product data sheet

XU5M18U1D

Photoelectric sensor XU5, diffuse, luminescence, Sn 80 mm, 12...24 VDC, M12

Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	Application packaging
Sensor name	XU5
Electronic sensor type	Photo-electric sensor
Sensor design	M18
Product specific application	Luminescence
ETIM classification	ETIM 9 - EC001821 - Diffuse reflective photoelectric sensor
Material	Metal
Lens material	PMMA
Enclosure material	Nickel plated brass
Wiring technique	3-wire
Diameter	18 mm
Detection system	Diffuse
Delay response	0.5 ms
Indivisible sale quantity	1

Complementary

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	<= 100 mA (reverse polarity, overload and short-circuit protection)
Maximum voltage drop	<1.5 V (closed state), PNP
Current consumption	<= 20 mA no-load
Emission	-
Setting-up	Sensitivity adjustment with potentiometer
Status LED	-
Output type	Solid state
Type of output signal	Discrete

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.
Neither TMSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Add on output	Without
Discrete output type	PNP
Discrete output function	1 NO
Time delay range	20 ms off-delay activation/deactivation by cabling method delay
Delay first up	100 ms
Delay recovery	0.5 ms
Length	95 mm
Product weight	0.075 kg

Environment

IP degree of protection	IP67 conforming to IEC 60529
Ambient air temperature for storage	-40...70 °C
Shock resistance	30 gn (duration = 11 ms) conforming to IEC 60068-2-27
Vibration resistance	7 gn, amplitude = +/- 0.6 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

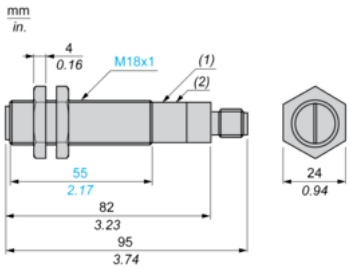
Packing Units

Country of origin	FR (France)
Unit type of package 1	PCE
Number of units in package 1	1
New Package 1 GTIN-13	3666916032848
Package 1 height	7.1 cm
Package 1 width	9.6 cm
Package 1 length	4.3 cm
Package 1 weight	0.088 kg
Unit type of package 2	S01
Number of units in package 2	11
New Package 2 GTIN 14	13666916032845
Package 2 height	15 cm
Package 2 width	15 cm
Package 2 length	40 cm
Package 2 weight	1.193 kg
Unit type of package 3	CAR

Number of units in package 3	1
New Package 3 GTIN 14	23666916032842
Package 3 height	9.5 cm
Package 3 width	4.2 cm
Package 3 length	6.6 cm
Package 3 weight	0.088 kg

Technical Drawings

Dimensions



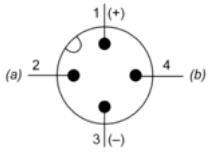
(1)
(2)

Mounting and Clearance

Fixing nut tightening torque: < 15 N.m

Wiring Schemes

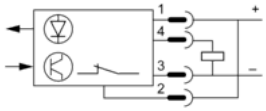
Connector Scheme



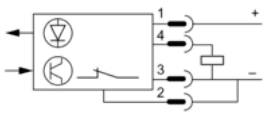
(a)
(b)

Wiring Schemes

PNP Output (3-wire Discontinue Current)



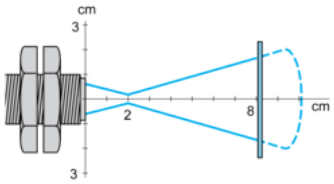
PNP Output (3-wire Discontinue Current)



Without output signal time delay
With output signal time delay (20 ms)

Curves

Detection Curves

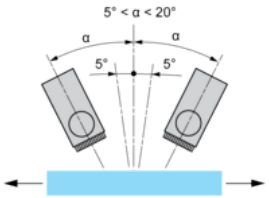


Object 5 x 5 cm, white 90 %

Object 5 x 5 cm, white 90 %

Curves

Vertical Inclination



An angle of 5 to 10° from vertical is recommended for reflective or transparent surfaces Maximum vertical inclination: 20°