Product data sheet Characteristics

XU5N18NP341WL5

photo-electric sensor - XU5 - diffuse - 90° - Sn 0.10m - 12..24VDC - cable 5m

Product Life Status: END OF COMMERCIALIZATION

TODAY MAY 30, 2022

End of Commercialization JAN 12, 2022



Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	Application food and beverage
Electronic sensor type	Photo-electric sensor
Sensor name	XU5
Sensor design	Cylindrical M18
Detection system	Diffuse
Material	Stainless steel
Line of sight type	90° lateral
Type of output signal	Discrete
Supply circuit type	DC
Wiring technique	3-wire
Discrete output type	NPN
Discrete output function	1 NO or 1 NC programmable
Electrical connection	Cable
Cable length	5 m
Product specific application	-
Emission	Infrared diffuse
[Sn] nominal sensing distance	0.1 m diffuse

Product Life Status:

END OF COMMERCIALIZATION

MAY 30, 2022

End of Commercialization JAN 12, 2022

Complementary

Enclosure material	Stainless steel : 304 CU	
Lens material	PMMA	
Maximum sensing distance	0.15 m	
Output type	Solid state	
Add on output	Without	
Add on input	Programmation	
Cable composition	4 x 0.34 mm²	
Wire insulation material	PvR	
Cable outer diameter	4.2 mm	
Status LED	1 LED (green) for supply on 1 LED (yellow) for output state	
[Us] rated supply voltage	1224 V DC with reverse polarity protection	

Supply voltage limits	1030 V DC	
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)	
Switching frequency	<= 500 Hz	
Maximum voltage drop	<1.5 V (closed state)	
Current consumption	<= 25 mA no-load	
Maximum delay first up	15 ms	
Maximum delay response	1 ms	
Maximum delay recovery	1 ms	
Setting-up	Without sensitivity adjustment	
Diameter	18 mm	
Length	78 mm	

Environment

Product certifications	UL CSA CE	
Ambient air temperature for operation	-2555 °C	
Ambient air temperature for storage	-4070 °C	
Vibration resistance	25 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	IP67 conforming to IEC 60529	

Packing Units

Package 1 Weight	0.285 kg	
Package 1 Height	1.300 dm	
Package 1 width	0.660 dm	
Package 1 Length	0.940 dm	

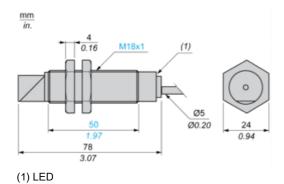
Contractual warranty

Warranty	18 months

Product data sheet Dimensions Drawings

XU5N18NP341WL5

Dimensions



Product data sheet Mounting and Clearance

XU5N18NP341WL5

Mounting and Clearance

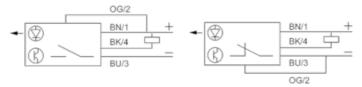
Fixing nut tightening torque: < 15 N.m Connector tightening torque: 2 N.m

Product data sheet Connections and Schema

XU5N18NP341WL5

Wiring Schemes

3-wire, NPN NO or NC Programmable Function



BN: Brown

BK : Black (out / output)

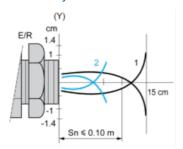
BU : Blue

OG: Orange (program)

XU5N18NP341WL5

Detection Curves

Diffuse System



(y) Ø of beam

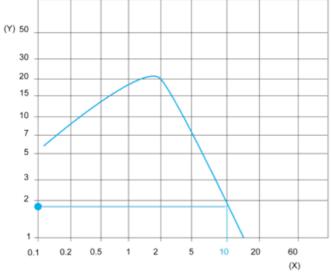
1: White 90%

2 : Grey 18%

Object 10 x 10 cm

Excess Gain Curves (Ambient Temperature: + 25° C)

Diffuse System



(y) Gain

(x) Distance (m)

Object 10 x 10 cm

White 90%