

Product data sheet

Specifications



Photoelectric sensors XU, XUV, frame, 200X120mm, 12...24 VDC, M12

XUVF120M12

Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	Application material handling
Electronic sensor type	Photo-electric sensor
Sensor name	XUV
Sensor design	Frame
Detection system	Thru beam
Emission	Infrared
Way dimensions of optical frame	200 x 120 mm
Material	Metal
Supply circuit type	DC
Wiring technique	4-wire
Discrete output type	PNP or NPN
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 male connector M12, 4 pins
Product specific application	Static detection of passage of objects Dynamic detection of passage of objects
Minimum object diameter for detection	Dynamic mode: 4 mm (0.1...15 m/s) Static mode: 6 mm

Complementary

Enclosure material	Painted aluminium
Lens material	Altuglass
Type of output signal	Discrete
Output type	Solid state
Add on output	With alarm output
Status LED	Alarm: 1 LED (red) Output state: 1 LED (amber)
[Us] rated supply voltage	24 V DC with reverse polarity protection
Supply voltage limits	18...30 V DC
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)

Switching frequency	> 5000 Hz
Maximum voltage drop	<2 V (closed state)
Current consumption	<= 150 mA no-load
Time delay range	0...5 s off-delay delay
Maximum delay first up	100 ms
Maximum delay recovery	0.1 ms
Setting-up	Sensitivity adjustment with potentiometer
Depth	25 mm
Height	230 mm
Width	205 mm
Product weight	1.06 kg

Environment

Product certifications	CE cULus
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-20...80 °C
Immunity to ambient light	3000 lux incandescent light 10000 lux sunlight
Vibration resistance	25 gn, amplitude = +/- 2 mm (f = 10...55 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 conforming to IEC 60529

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.4 cm
Package 1 Width	42.8 cm
Package 1 Length	28.8 cm
Package 1 Weight	1.156 kg
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	8.36 kg

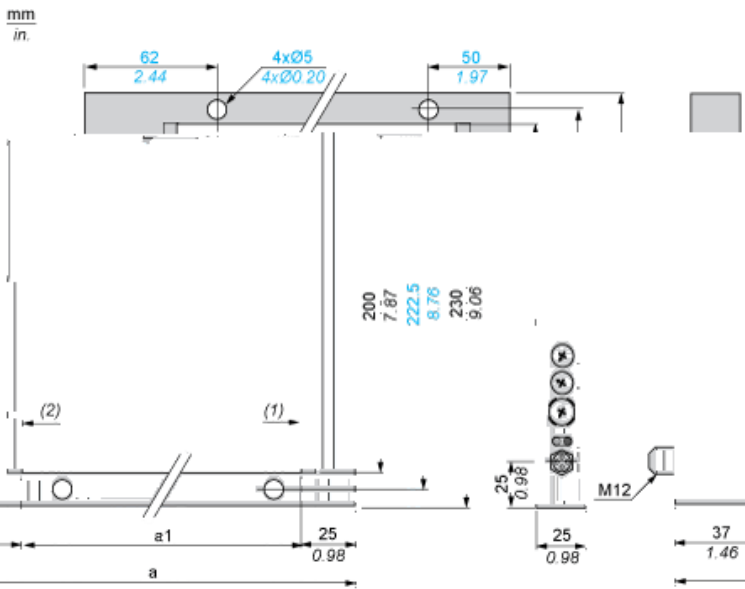
Offer Sustainability

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
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

Contractual warranty

Warranty	18 months
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Dimensions



- (1) Transmitting face
(2) Reception face

Dimensions in mm

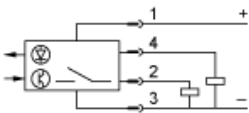
a	a1
182	120

Dimensions in in.

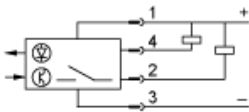
a	a1
7.17	4.72

Wiring Schemes (4-Wire DC)

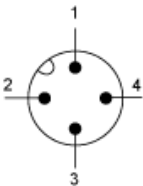
PNP Output



NPN Output



Connector Scheme



- 1 : +
- 2 : Not connected
- 3 : -
- 4 : Output

Recommended replacement(s)