Product data sheet

Specifications

Photoelectric sensors XU, XUV, frame, 200X250mm, 12...24 VDC, M12

XUYFRS250S

Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	Application material handling
Electronic sensor type	Photo-electric sensor
Sensor name	XUY
Sensor design	Frame
Detection system	Thru beam
Emission	Infrared
Way dimensions of optical frame	200 x 250 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: 10 mm (0.1…70 m/s) Static mode: 15 mm

Complementary

Enclosure material	Painted aluminium
Lens material	Altuglass
Type of output signal	Discrete
Output type	Solid state
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	335 mm
Net weight	1.32 kg

Environment

Product certifications	cULus CE
Ambient air temperature for operation	0…60 °C
Ambient air temperature for storage	-20…80 °C
Immunity to ambient light	3000 lux incandescent bulb 10000 lux natural light
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 Weight	1.583 kg
Package 1 Height	24.5 cm
Package 1 width	4.9 cm
Package 1 Length	42 cm

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 to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Contractual warranty

Warranty	18 months

XUYFRS250S
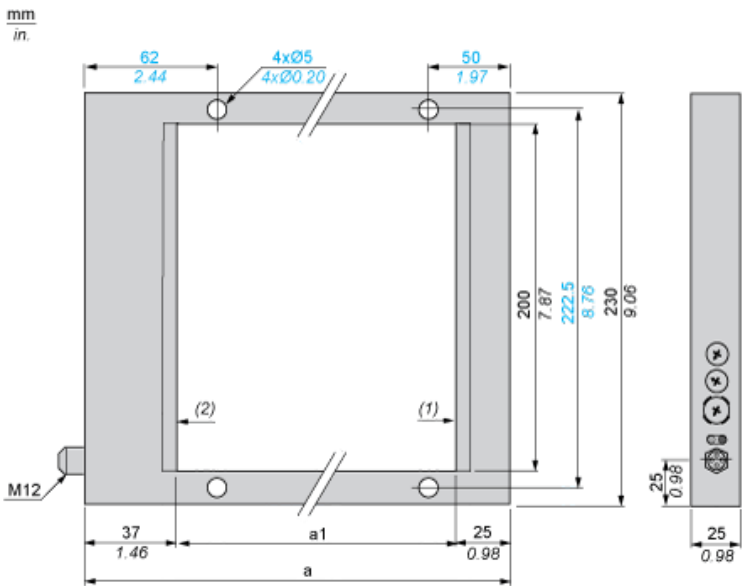
Dimensions

(1)   Transmitting face
(2)   Reception face

Dimensions in mm

a	a1
312	250

Dimensions in in.

a	a1
12.28	9.84

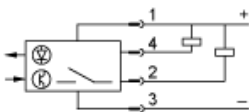## Wiring Schemes (4-Wire DC)

PNP Output
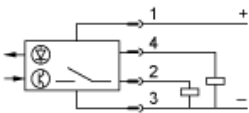
NPN Output

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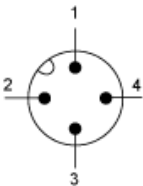
1 :   +
2 :   Not connected
3 :   -
4 :   Output