

XUYFRS120S

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



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 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	Dynamic detection of passage of objects Static 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	205 mm
Net weight	1.06 kg

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 TWSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Environment

Product certifications	CE[RETURN]cULus
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 Height	24.500 cm
Package 1 Width	4.500 cm
Package 1 Length	41.500 cm
Package 1 Weight	1.334 kg
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	9.256 kg

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 Diisodecyl 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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

Warranty	18 months
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Technical drawing of the front view of a square plate. The drawing shows a square plate with a central square hole. The outer dimensions are 230 mm (9.06 in) on all sides. The inner dimensions of the central hole are 200 mm (7.87 in) on all sides. The plate has four mounting holes, each with a diameter of 5 mm (Ø5) and a hole spacing of 20 mm (Ø0.20). The mounting holes are located 62 mm (2.44 in) from the top and bottom edges and 50 mm (1.97 in) from the left and right edges. The plate has a thickness of 25 mm (0.98 in). The drawing includes a detail view of the mounting hole pattern, showing four holes arranged in a square pattern with a spacing of 20 mm (Ø0.20). The drawing also includes a detail view of the central square hole, showing its dimensions of 200 mm (7.87 in) on all sides. The drawing is labeled with dimensions in mm and inches.

- Dimensions in mm

Dimensions in in.

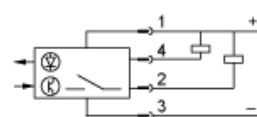
a	a1
7.17	4.72

Wiring Schemes (4-Wire DC)

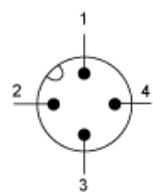
PNP Output



NPN Output



Connector Scheme



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