# Product data sheet
## Characteristics

# XX512A1KAM8
## Ultrasonic sensors XX, ultrasonic sensor cylindrical M12, Sn 0.05 m, 2 NO, M8 connector

Green Premium™ Product

## Main

| | |
|---|---|
| Range of product | Telemecanique Ultrasonic sensors XX |
| Sensor type | Ultrasonic sensor |
| Series name | General purpose |
| Sensor name | XX5 |
| Sensor design | Cylindrical M12 |
| Detection system | Diffuse |
| [Sn] nominal sensing distance | 0.16 ft (0.05 m) fixed |
| Material | Plastic |
| Type of output signal | Discrete |
| Discrete output function | 2 NO |
| Wiring technique | 4-wire |
| Discrete output type | PNP and NPN |
| [Us] rated supply voltage | 12...24 V DC reverse polarity protection |
| Electrical connection | Male connector M8 4 pins |
| [Sd] sensing range | 0.02…0.17 ft (0.0064…0.051 m) |
| Beam angle | 11 ° |
| IP degree of protection | IP67 conforming to IEC 60529 |

## Complementary

| | |
|---|---|
| Enclosure material | ULTEM |
| Front material | Epoxy |
| Thread type | M12 x 1 |
| Supply voltage limits | 10…28 V DC |
| [Sa] assured operating distance | 0.02…0.17 ft (0.0064…0.051 m) |
| Maximum differential travel | 0.03 in (0.7 mm) |
| Blind zone | 0.00…0.25 in (0…6.4 mm) |
| Transmission frequency | 500 kHz |
| Repeat accuracy | 0.7 % |
| Deviation angle from 90° of object to be detected | -10…10 ° |
| Minimum size of detected object | Cylinder diameter 2.5 mm<br>Flat bar 1 mm wide |
| Status LED | Supply on 1 LED green)<br>Output state 1 LED yellow) |
| Current consumption | 25 mA |
| Maximum switching current | 100 mA overload and short-circuit protection |
| Maximum voltage drop | 1 V |
| Switching frequency | <= 125 Hz |
| Maximum delay first up | 20 ms |
| Maximum delay response | 2 ms |
| Maximum delay recovery | 2 ms |
| Marking | CE |
| Threaded length | 1.50 in (38 mm) |
| Height | 0.47 in (12 mm) |
| Width | 0.47 in (12 mm) |

Mar 30, 2021

Life Is On | Schneider Electric

| Maximum Depth | 1.97 in (50 mm) |
|---|---|
| Net Weight | 0.02 lb(US) (0.011 kg) |

## Environment

| | |
|---|---|
| Standards | IEC 60947-5-2 |
| Product certifications | UL |
| Ambient air temperature for operation | -4…149 °F (-20…65 °C) |
| Ambient air temperature for storage | -40…176 °F (-40…80 °C) |
| Vibration resistance | +/-1 mm 10…55 Hz)IEC 60068-2-6 |
| Shock resistance | 30 gn in all 3 axes 11 ms IEC 60068-2-27 |
| Resistance to electrostatic discharge | 8 kV level 4 IEC 61000-4-2 |
| Resistance to electromagnetic fields | 9.14 V/m (10 V/m) level 3 IEC 61000-4-3 |
| Resistance to fast transients | 1 kV level 3 IEC 61000-4-4 |

## Ordering and shipping details

| | |
|---|---|
| Category | 22490 - SENSORS-ULTRASONIC (XX5,6) |
| Discount Schedule | DS2 |
| GTIN | 00785901376224 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 1 lb(US) (0.45 kg) |
| Returnability | Yes |
| Country of origin | US |

## Packing Units

| | |
|---|---|
| Package 1 Height | 0.950 dm |
| Package 1 width | 0.400 dm |
| Package 1 Length | 0.660 dm |

## Offer Sustainability

| | |
|---|---|
| Sustainable offer status | Green Premium product |
| 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 |
| 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 |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |

## Contractual warranty

| | |
|---|---|
| Warranty | 18 months |

Life Is On | Schneider Electric