

# Product data sheet

Specifications



## ultrasonic sensor cylindrical M30 - 2 levels - Sn 2 m - 2 NO - M12

XX230A30KA00M12

! Discontinued on: 08 December 2020

! Discontinued

### Main

|                               |   |
|-------------------------------|---|
| Range of product              | Telemecanique Ultrasonic sensors XX           |
| Sensor type                   | Ultrasonic sensor                             |
| Series name                   | General purpose                               |
| Sensor name                   | XX2   |
| Sensor design                 | Cylindrical M30                               |
| Detection system              | Diffuse                                       |
| [Sn] nominal sensing distance | 2 m adjustable with teach push-button         |
| Material                      | Plastic                                       |
| Type of output signal         | Discrete                                      |
| Discrete output function      | 2 NO  |
| Wiring technique              | 4-wire  |
| Discrete output type          | PNP   |
| [Us] rated supply voltage     | 12...24 V DC with reverse polarity protection |
| Electrical connection         | Male connector M12 4 pins                     |
| Product specific application  | For 2 levels monitoring                       |
| [Sd] sensing range            | 0.12...2 m                                    |
| Beam angle                    | 10 °  |
| IP degree of protection       | IP67 conforming to IEC 60529                  |

### Complementary

|                                 |                              |
|---------------------------------|------------------------------|
| Enclosure material              | ULTEM                        |
| Front material                  | Silicone                     |
| Thread type                     | M30 x 1.5                    |
| Supply voltage limits           | 10...28 V DC                 |
| Function available              | Without synchronisation mode |
| [Sa] assured operating distance | 0.12...2 m (teach mode)      |
| Maximum differential travel     | 2.5 mm                       |
| Blind zone                      | 0...120 mm                   |

|  |  |
|--|--|
| <b>Transmission frequency</b>                            | 200 kHz  |
| <b>Repeat accuracy</b>                                   | 0.9 %  |
| <b>Deviation angle from 90° of object to be detected</b> | -10...10 °   |
| <b>Minimum size of detected object</b>                   | Cylinder diameter 1.6 mm at 0.635 m  |
| <b>Status LED</b>  | Output state: 1 LED (green/red (flashing))<br>Setting-up assistance: 1 LED (green/red (flashing))<br>Distance indication: 1 LED (yellow) |
| <b>Current consumption</b>                               | 100 mA   |
| <b>Maximum switching current</b>                         | 100 mA with overload and short-circuit protection  |
| <b>Maximum voltage drop</b>                              | 1 V  |
| <b>Maximum delay first up</b>                            | 1000 ms  |
| <b>Maximum delay response</b>                            | 150 ms   |
| <b>Maximum delay recovery</b>                            | 1000 ms  |
| <b>Marking</b>   | CE   |
| <b>Threaded length</b>                                   | 45 mm  |
| <b>Height</b>  | 35 mm  |
| <b>Width</b>   | 35 mm  |
| <b>Depth</b>   | 85 mm  |
| <b>Product weight</b>                                    | 0.091 kg   |

## Environment

|  |  |
|--|--|
| <b>Standards</b>                             | IEC 60947-5-2  |
| <b>Product certifications</b>                | UL<br>cCSAus   |
| <b>Ambient air temperature for operation</b> | 0...50 °C  |
| <b>Ambient air temperature for storage</b>   | -10...80 °C  |
| <b>Vibration resistance</b>                  | +/-1 mm conforming to IEC 60068-2-6 (f = 10...55 Hz)       |
| <b>Shock resistance</b>                      | 30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27 |
| <b>Resistance to electrostatic discharge</b> | 8 kV level 4 conforming to IEC 61000-4-2                   |
| <b>Resistance to electromagnetic fields</b>  | 10 V/m level 3 conforming to IEC 61000-4-3                 |
| <b>Resistance to fast transients</b>         | 1 kV level 3 conforming to IEC 61000-4-4                   |

## Packing Units

|                                     |     |
|-------------------------------------|-----|
| <b>Unit Type of Package 1</b>       | PCE |
| <b>Number of Units in Package 1</b> | 1   |

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| <b>EU RoHS Directive</b>         | Not applicable, out of EU RoHS legal scope  |
| <b>California proposition 65</b> | 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

## Recommended replacement(s)

XX230A30KA00M12 is replaced by:

1x



Ultrasonic sensors XX, ultrasonic sensor, plastic, cylindrical M30, straight, 2 m, PNP  
XXS30P2PM12