Product data sheet
Characteristics

XX630A1KAM12
ultrasonic sensor cylindrical M30 - Sn 1 m - 2NO - M12 connector

Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX6
Sensor design	Cylindrical M30
Detection system	Diffuse
[Sn] nominal sensing distance	1 m adjustable with teach pushbutton
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 with reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0.051...0.991 m
Beam angle	10 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure material	ULTEM
Front material	Silicone
ISO thread	M30 x 1.5
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0.051...0.991 m (teach mode)
Maximum differential travel	2.5 mm
Blind zone	0...51 mm
Transmission frequency	200 kHz
Repeat accuracy	0.9 %
Deviation angle from 90° of object to be detected	-7...7 °
Minimum size of detected object	Cylinder diameter 1.6 mm up to 635 mm sensing distance
Status LED	1 LED (green/red (flashing)) for setting-up assistance
Current consumption	50 mA
Maximum switching current	100 mA with overload and short-circuit protection
Voltage drop	< 1 V
Switching frequency	<= 10 Hz
Delay first up	720 ms
Delay response	20 ms
Delay recovery	20 ms
Marking	CE
Threaded length	45 mm
CAD overall height	35 mm
CAD overall width	35 mm
CAD overall depth	85 mm
Product weight	0.091 kg

Environment

Standards	IEC 60947-5-2
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...80 °C
Vibration resistance	+/-1 mm conforming to IEC 60068-2-6 10...55 Hz
Shock resistance	30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27
Resistance to electrostatic discharge	8 kV level 4 conforming to IEC 61000-4-2
Resistance to electromagnetic fields	10 V/m level 3 conforming to IEC 61000-4-3
Resistance to fast transients	1 kV level 3 conforming to IEC 61000-4-4
RoHS EUR status	Will be Compliant
RoHS EUR conformity date	4Q2011