Product data sheet

Specifications

Telemecanique Capacitive proximity sensors XT, cylindrical M30, plastic, Sn 15 mm, 24...240 V AC

XT230A2MDB

Product availability : Stock - Normally stocked in distribution facility

Main

Range of Product	Telemecanique Capacitive proximity sensors XT
Sensor Type	Capacitive proximity sensor
Product Specific Application	Animal feeding Detection of insulated or conductive materials
Sensor name	XT2
Sensor design	Cylindrical M30
Size	100 mm
Body type	Fixed
Detector flush mounting acceptance	Non flush mountable
Material	Plastic
Enclosure Material	Plastic
Type of output signal	Discrete
Wiring Technique	2-wire
[Sn] nominal sensing distance	0.59 in (15 mm)
Discrete output function	1 NO or 1 NC programmable
Output circuit type	AC DC
Electrical connection	Screw clamp terminal
[Us] rated supply voltage	24...240 V AC 50...60 Hz
Maximum delay response	10 ms
IP degree of protection	IP65 conforming to IEC 60529

Complementary

ISO thread	M30 x 1.5
Detection face	Frontal
[Sa] assured operating distance	0.00…0.43 in (0…11 mm)
Adjustment zone	0.00…0.67 in (0…17 mm)
Differential travel	< 1...15 % Sr
Repeat accuracy	< 5 % Sr
Cable entry	1 entry incorporating cable gland 0.28…0.51 in (7…13 mm)

Status LED	Output state indication 1 LED yellow)
Supply voltage limits	20…265 V AC
Maximum residual current	120 mA open state
Switching frequency	<= 40 Hz
Maximum voltage drop	<2 V closed)
Current consumption	< 3 mA
Maximum delay first up	100 ms
Maximum delay recovery	10 ms
Maximum switching current	300 mA
Marking	CE
Setting-up	Sensitivity by potentiometer
Threaded length	1.77 in (45 mm)
Length	3.94 in (100 mm)
Net Weight	0.22 lb(US) (0.1 kg)

Environment

Standards	EN/IEC 60947-5-2 UL 61010-1
Product Certifications	cULus
Ambient air temperature for operation	-4…158 °F (-20…70 °C)
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °C)
Electrical insulation class	Class I
Vibration resistance	10 gn 1 mm 10…55 Hz)IEC 60068-2-6
Shock resistance	30 gn 11 ms IEC 60068-2-27
Resistance to electrostatic discharge	4 kV contact IEC 61000-4-2 8 kV air IEC 61000-4-2
Resistance to electromagnetic fields	2.74 V/m (3 V/m) IEC 61000-4-3
Resistance to fast transients	2 kV IEC 61000-4-4

Ordering and shipping details

Category	22490-SENSORS-ULTRASONIC (XX5,6)
Discount Schedule	DS2
GTIN	3389119053266
Returnability	Yes
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.97 in (5.0 cm)
Package 1 Width	2.36 in (6.0 cm)
Package 1 Length	4.72 in (12.0 cm)
Package 1 Weight	3.53 oz (100.0 g)

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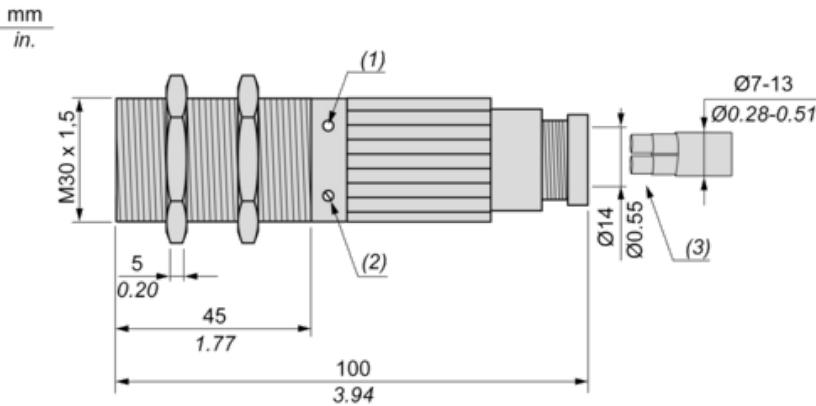|	
Unit Type of Package 2	S02
Number of Units in Package 2	60
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	13.76 lb(US) (6.243 kg)

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 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
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes

Contractual warranty

Warranty	18 months

Dimensions

(1) LED

(2) Potentiometer

(3) 2 x 1 mm^2 to 2.5 mm^2 wires max.

Setting-up

Minimum Mounting Distances (mm)

Side by side
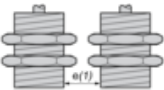
e(1) ≥ 16

Face to face
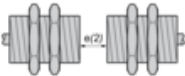
e(2) ≥ 1350

Facing a metal object
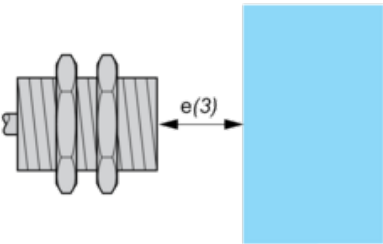
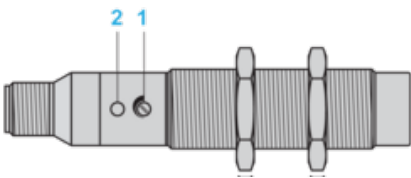**e(3) ≥** 675

Mounted in support
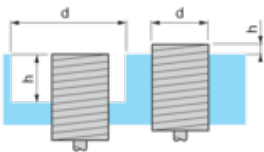
d ≥ 90

h ≥ 30

Fixing nut tightening torque: 4 N.m

Adjustment

Sensitivity Adjustment

(1) Adjustment potentiometer
(2) LED

Wiring Diagram

Screw Terminal Version

2-wire AC NO or NC Output, Selectable
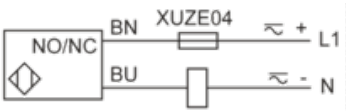
(BN) Brown

(BU) Blue

Recommended replacement(s)