XGCS49LB201
Panel Smart antenna with pilot lights

Main

Range of product	OsiSense XG
Product or component type	Panel mounting smart antenna with lights
RFID compact station name	XGCS
RFID frequency	13.56 MHz
Design	Diameter 22 mounting
Electrical connection	5 pin(s)1 male connector M12
Transmission rate	9600 bauds...115200 bauds (automatic detection)
Outer dimension	40 x 40 x 40 mm
Product compatibility	RFID microchip Texas (Tag-it HFI) RFID microchip INSIDE (micropass) RFID microchip Fujitsu (MB89R118 - MB89R119) RFID microchip NXP (SL2, SL1, Ultralight, Std 1K/4K, Desfire) RFID microchip STM (CRIX4K) RFID microchip Microelectronic (EM4135)
[Sn] nominal sensing distance	0.39…2.76 in (10…70 mm)
[Us] rated supply voltage	24 V DC Protective Extra Low Voltage

Complementary

Communication port protocol	Modbus RTU
Communication port support	RS485 non isolated
Associated tag type	Automatic detection of the type of tag ISO 15693 standard tags ISO 14443 standard tags
Supply voltage limits	19.2…29 V DC
Current consumption	< 60 mA
Status LED	Communication network 1 LED dual colour) RFID communication 1 LED dual colour) Multi-colour LED 2 LEDs multi-colour)
Tightening torque	< 2.2 N.m
Marking	CE
Net weight	0.13 lb(US) (0.057 kg)

Environment

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Product certifications	UL, FCC
Standards	ETSI EN 301 489-3 ETSI EN 300 330-2 ETSI EN 300 330-1 ETSI EN 301 489-1
Ambient air temperature for operation	-13…158 °F (-25…70 °C)
Ambient air temperature for storage	-40…185 °F (-40…85 °C)
IP degree of protection	Front face IP69K IEC 60529 Back IP65 IEC 60529
Vibration resistance	2 mm 5…29.5 Hz)EN 60068-2-6 7 gn 29.5…150 Hz)EN 60068-2-6
Shock resistance	30 gn 11 ms EN 60068-2-27
IK degree of protection	IK02 EN 50102
Electromagnetic compatibility	Electrostatic discharge immunity test 6 kV contact discharge) 3 IEC 61000-4-2 Electrostatic discharge immunity test 8 kV air discharge) 3 IEC 61000-4-2 Electrical fast transient/burst immunity test 1 kV signal ports) 3 IEC 61000-4-4 Electrical fast transient/burst immunity test 2 kV power ports) 3 IEC 61000-4-4 Susceptibility to electromagnetic fields 10 V/m3 IEC 61000-4-3 1.2/50 µs shock waves immunity test 10 kV3 IEC 61000-4-5 Conducted RF disturbances 10 V3 IEC 61000-4-6 Magnetic field at power frequency 30 A/m4 IEC 61000-4-8

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	2.61 oz (74 g)
Package 1 Height	2.52 in (6.4 cm)
Package 1 width	3.54 in (9 cm)
Package 1 Length	1.73 in (4.4 cm)
Unit Type of Package 2	S01
Number of Units in Package 2	22
Package 2 Weight	3.84 lb(US) (1.74 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	5.91 in (15 cm)
Package 2 Length	15.75 in (40 cm)

Offer Sustainability

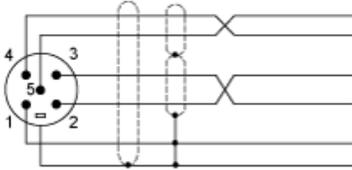|	
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes

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Dimensions
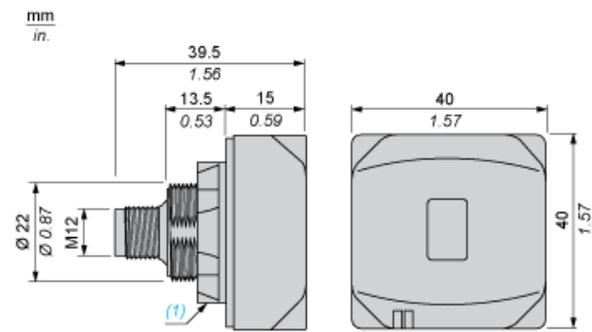
(1)   Locking nut

Connections

Modbus Connections

Pin no.	Modbus smart antenna signal
1	Drain (Modbus-SHLD)
2	+ 24 VDC
3	0 V/Modbus-GND
4	D0
5	D1

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Connection Examples

Connection to a Terminal
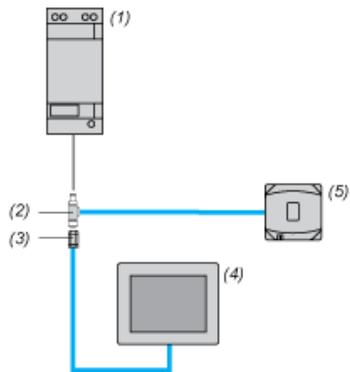
(1)	Power supply
(2)	Network Tee
(3)	Male M12 connector
(4)	Terminal
(5)	Smart antenna

Connection to an Automation Platform

Daisy chain topology
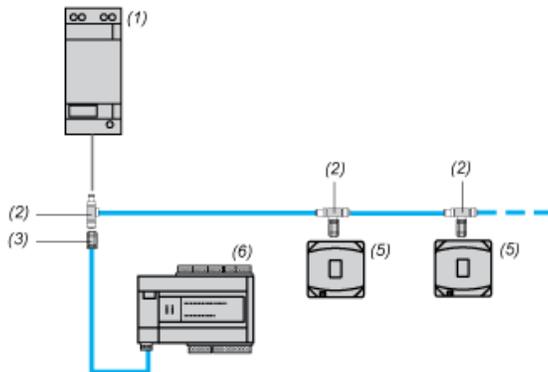
(1)	Power supply
(2)	Network Tee
(3)	Male M12 connector
(4)	Terminal
(5)	Smart antenna
(6)	Automation platform

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Mounting and Clearance

Minimum Distance Between 2 Identical Smart Antennas According to their Positioning and Type of Tag Used
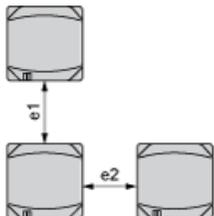
Dimensions in mm

Tag	e1	e2
XGHBPB3345	90	90
XGHB90E340	310	310
XGHB90E341	90	90

Dimensions in in.

Tag	e1	e2
XGHBPB3345	3.54	3.54
XGHB90E340	12.20	12.20
XGHB90E341	3.54	3.54