Product data sheet
Characteristics

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 INSIDE (micropass) RFID microchip STM (CRIX4K) RFID microchip Texas (Tag-it HFI) RFID microchip Fujitsu (MB89R118 - MB89R119) RFID microchip NXP (SL2, SL1, Ultralight, Std 1K/4K, Desfire) RFID microchip Microelectronic (EM4135)
[Sn] nominal sensing distance	10...70 mm
[Us] rated supply voltage	24 V DC conforming to Protective Extra Low Voltage

Complementary

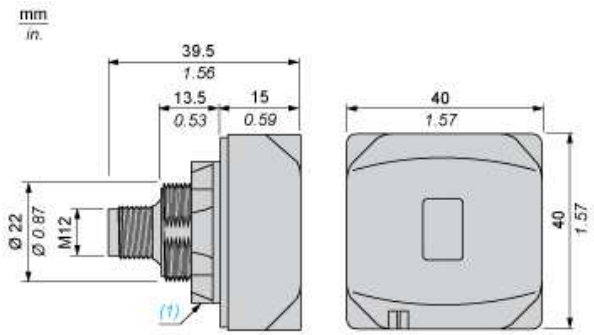
Communication port protocol	Modbus RTU
Communication port support	RS485 non isolated
Associated tag type	Automatic detection of the type of tag ISO 14443 standard tags ISO 15693 standard tags
Supply voltage limits	19.2...29 V DC
Current consumption	< 60 mA
Status LED	1 LED (dual colour) for communication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

Environment

Product certifications	UL, FCC
Standards	ETSI EN 301 489-1 ETSI EN 301 489-3 ETSI EN 300 330-1 ETSI EN 300 330-2
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
IP degree of protection	IP69K (front face) conforming to IEC 60529 IP65 (back) conforming to IEC 60529
Vibration resistance	(F = 5...29.5 Hz) conforming to EN 60068-2-6 (F = 29.5...150 Hz) conforming to EN 60068-2-6
Shock resistance	30 gn for 11 ms conforming to EN 60068-2-27

IK degree of protection	IK02 conforming to EN 50102
Electromagnetic compatibility	Electrostatic discharge immunity test forcontact discharge (level: 3) - test level 6 kV conforming to IEC 61000-4-2 Electrostatic discharge immunity test forair discharge (level: 3) - test level 8 kV conforming to IEC 61000-4-2 Electrical fast transient/burst immunity test forsignal ports (level: 3) - test level 1 kV conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test forpower ports (level: 3) - test level 2 kV conforming to IEC 61000-4-4 Susceptibility to electromagnetic fields (level: 3) - test level 10 V/m conforming to IEC 61000-4-3 1.2/50 µs shock waves immunity test (level: 3) - test level 10 kV conforming to IEC 61000-4-5 Conducted RF disturbances (level: 3) - test level 10 V conforming to IEC 61000-4-6 Magnetic field at power frequency (level: 4) - test level 30 A/m conforming to IEC 61000-4-8

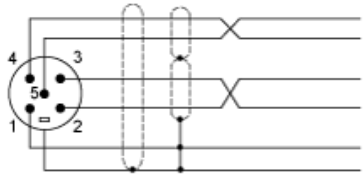
Dimensions



(1) Locking nut

Connections

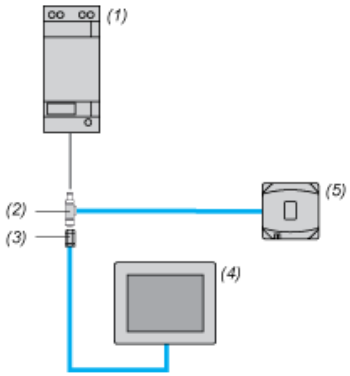
Modbus Connections



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

Connection Examples

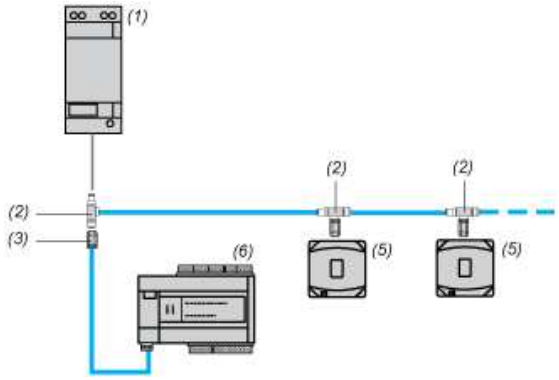
Connection to a Terminal



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

Connection to an Automation Platform

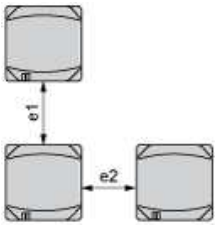
Daisy chain topology



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

Mounting and Clearance

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



Dimensions in mm

	e1	e2
XGHBPB0345	90	90
XGHB90E340	310	310

Dimensions in in.

	e1	e2
XGHBPB0345	3.54	3.54
XGHB90E340	12.20	12.20