



## Main

Range of product	OsiSense XG
Product or component type	Compact smart antenna
RFID compact station name	XGCS
RFID frequency	13.56 MHz
Design	Flat form 40 x 40 x 15
Electrical connection	5 pin(s) male remote connector M12, shielded cable cable 0.2 m
Transmission rate	9600 bauds...115200 bauds (automatic detection)
Outer dimension	40 x 40 x 15 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 Uni-Telway
Communication port support	RS485
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
Tightening torque	< 1 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	IP65 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	<p>Electrostatic discharge immunity test for contact discharge ( level: 3) - test level 6 kV conforming to IEC 61000-4-2</p> <p>Electrostatic discharge immunity test for air discharge ( level: 3) - test level 8 kV conforming to IEC 61000-4-2</p> <p>Electrical fast transient/burst immunity test for signal ports ( level: 3) - test level 1 kV conforming to IEC 61000-4-4</p> <p>Electrical fast transient/burst immunity test for power ports ( level: 3) - test level 2 kV conforming to IEC 61000-4-4</p> <p>Susceptibility to electromagnetic fields ( level: 3) - test level 10 V/m conforming to IEC 61000-4-3</p> <p>1.2/50 <math>\mu</math>s shock waves immunity test ( level: 3) - test level 10 kV conforming to IEC 61000-4-5</p> <p>Conducted RF disturbances ( level: 3) - test level 10 V conforming to IEC 61000-4-6</p> <p>Magnetic field at power frequency ( level: 4) - test level 30 A/m conforming to IEC 61000-4-8</p>

## Offer Sustainability

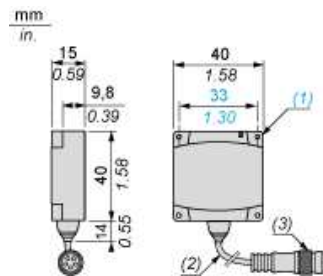
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0824 - <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available  <a href="#">Download Product Environmental</a>
Product end of life instructions	Available  <a href="#">Download End Of Life Manual</a>

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Dimensions

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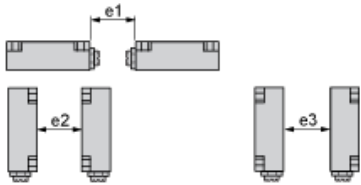
Compact Smart Antennas



- (1) 4 x Ø 4.5 for CHC type screws
- (2) Shielded cable (length: 20 cm)
- (3) A-coded, male 5-pin M12 connector

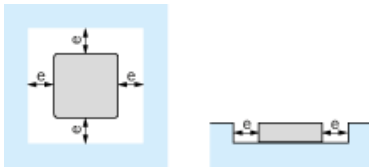
Minimum Mounting Distances

Distance Between Smart Antennas



Tag	e1	e2	e3
XGHB90E340 XGHB520246	310	550	120
XGHB221346	200	320	100
XGHB320***	140	360	110
XGHB211345 XGHB123345	210	180	60
XGHB44***	90	190	30

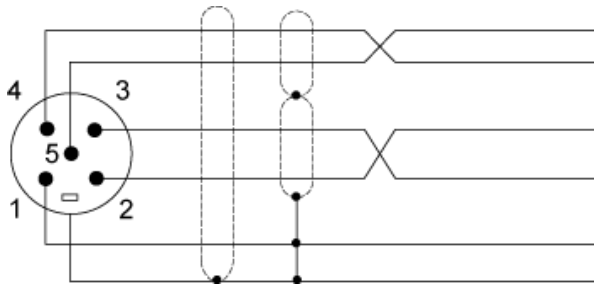
Minimum Mounting Distances in a Metal Structure



(e) ≥ 20 mm.

Wiring Diagram

Modbus Connections



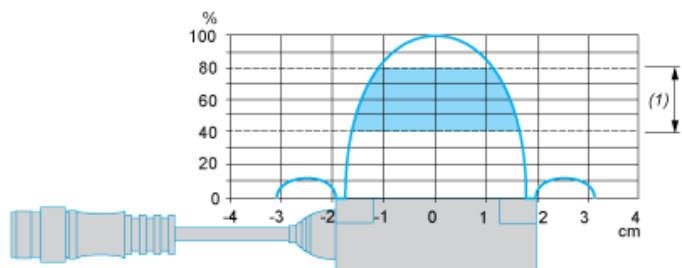
Pin no.	Modbus smart antenna signal
1	Drain (Modbus-SHLD)
2	+ 24 VDC
3	0 V/Modbus-GND
4	D0
5	D1
Connector casing	Shielding

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Curves

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Dialogue Zones of Compact Smart Antennas



(1) Recommended movement zone: between 0.4 and 0.8 Pn.