Product data sheet
Characteristics

XGCS850C201
Compact smart antenna, Radio frequency identification XG, RFID 13.56 MHz, Ethernet dual port communication



Main

Range of product	Telemecanique Radio frequency identification XG
Product or component type	Compact smart antenna
RFID compact station name	XGCS
RFID frequency	13.56 MHz
Design	80 x 93 x 40
Electrical connection	4 pin(s)male power supply socket M8 4 pin(s)female Ethernet socket 1 M12 4 pin(s)female Ethernet socket 2 M12
Transmission rate	10...100 Mbit/s
Outer dimension	80 x 93 x 40 mm
Product compatibility	RFID microchip STM (CRIX4K) RFID microchip INSIDE (micropass) 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	20…100 mm
[Us] rated supply voltage	24 V DC conforming to Protective Extra Low Voltage

Complementary

Communication port protocol	Ethernet IP/Modbus TCP
Communication port support	Ethernet
Associated tag type	ISO 14443 standard tags ISO 15693 standard tags Automatic detection of the type of tag
Supply voltage limits	19.2…29 V DC
Current consumption	< 150 mA
Status LED	Operation: 1 LED (red/green) RFID communication: 1 LED (red/green) Ethernet network activity: 2 LEDs (red/green) Status: 1 LED (red/green) Module Status: 1 LED (red/green)
Tightening torque	< 3 N.m
Marking	CE
Net weight	0.36 kg

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Environment

Product certifications	UL, FCC
Standards	EN 50364 EN/IEC 61000-6-3 EN 62369-1 ETSI EN 300 330-1 ETSI EN 301 489-1 ETSI EN 300 330-2 FCC CFR 47 part 15 ETSI EN 301 489-3
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	2 mm (f= 5…29.5 Hz) conforming to EN 60068-2-6 7 gn (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: (contact discharge), 3, 6 kV, conforming to IEC 61000-4-2 Electrostatic discharge immunity test: (air discharge), 3, 8 kV, conforming to IEC 61000-4-2 Electrical fast transient/burst immunity test: (signal ports), 3, 1 kV, conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test: (power ports), 3, 2 kV, conforming to IEC 61000-4-4 Susceptibility to electromagnetic fields: , 3, 10 V/m, conforming to IEC 61000-4-3 1.2/50 µs shock waves immunity test: , 3, 10 kV, conforming to IEC 61000-4-5 Conducted RF disturbances: , 3, 10 V, conforming to IEC 61000-4-6 Magnetic field at power frequency: , 4, 30 A/m, conforming to IEC 61000-4-8

Packing Units

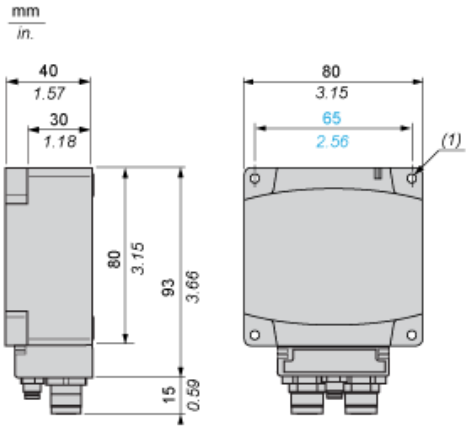
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	420 g
Package 1 Height	4.4 cm
Package 1 width	13 cm
Package 1 Length	9.2 cm
Unit Type of Package 2	S01
Number of Units in Package 2	12
Package 2 Weight	5.243 kg
Package 2 Height	15 cm
Package 2 width	15 cm
Package 2 Length	40 cm

Offer Sustainability

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

Dimensions

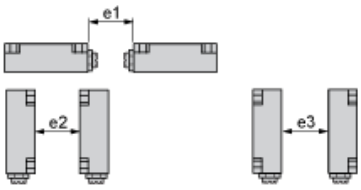
Compact Smart Antennas



(1) 4 x Ø 5.5. For CHC type screws

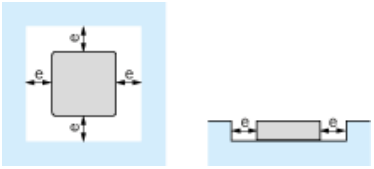
Minimum Mounting Distances

Distance Between Smart Antennas



Tag	e1	e2	e3
XGHB90E340 XGHB520246	430	750	280
XGHB221346	280	530	260
XGHB320•••	310	540	240
XGHB211345 XGHB123345	200	370	170
XGHB44•••	310	400	160

Minimum Mounting Distances in a Metal Structure

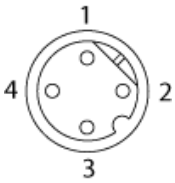


(e) ≥ 20 mm.

Wiring Diagram

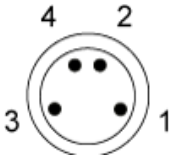
Ethernet Connections

Socket to Ethernet cabling (M12 connectors)



Pin no.	Signal
1	TD+
2	TD-
3	RD+
4	RD-

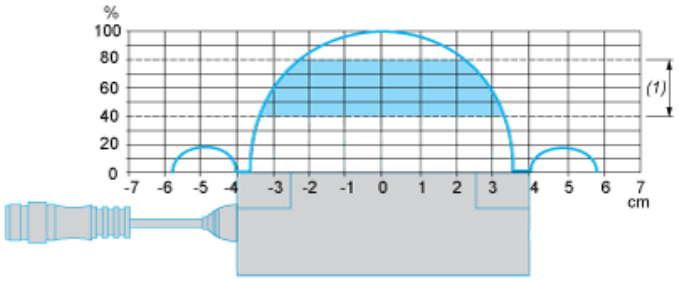
Socket to power supply cabling (M8 connector)



Pin no.	Signal
1	+ 24 VDC
2	NC
3	0 VDC
4	NC

Curves

Dialogue Zones of Compact Smart Antennas



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