



Main

Range of product	OsiSense XG
Product or component type	Panel mounting smart antenna
RFID compact station name	XGCS
RFID frequency	13.56 MHz
Design	Diameter 22 mounting
Electrical connection	5 pin(s)1 male connector M12
Outer dimension	40 x 40 x 40 mm
Product compatibility	RFID microchip NXP (Mifare classic 1K/4K) RFID microchip Texas (Tag-it HFI) RFID microchip Fujitsu (MB89R118 - MB89R119)
[Sn] nominal sensing distance	10...70 mm
[Us] rated supply voltage	24 V DC conforming to Protective Extra Low Voltage

Complementary

Operating mode	Standalone
Type of output signal	Discrete
Discrete output function	1 NO
Discrete output type	PNP
Switching capacity in mA	300 mA (overload and short-circuit protection)
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	< 60 mA
Status LED	RFID communication: 1 LED (dual colour) Output state: 1 LED (dual colour)
Tightening torque	< 2.2 N.m
Marking	CE
Net weight	0.057 kg

Environment

Product certifications	CE
Standards	ETSI EN 301 489-1 ETSI EN 300 330-1 ETSI EN 301 489-3 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	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

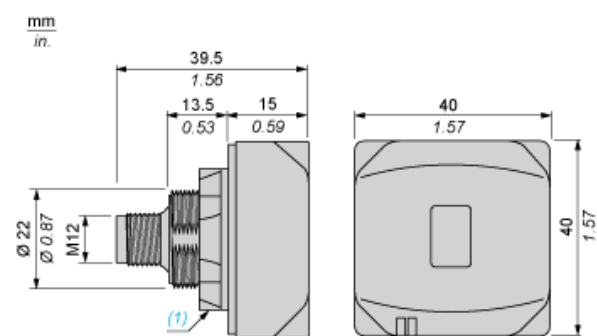
Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	76 g
Package 1 Height	6.6 cm
Package 1 width	4.8 cm
Package 1 Length	8.6 cm
Unit Type of Package 2	S01
Number of Units in Package 2	22
Package 2 Weight	1.929 kg
Package 2 Height	15 cm
Package 2 width	15 cm
Package 2 Length	40 cm

Offer Sustainability

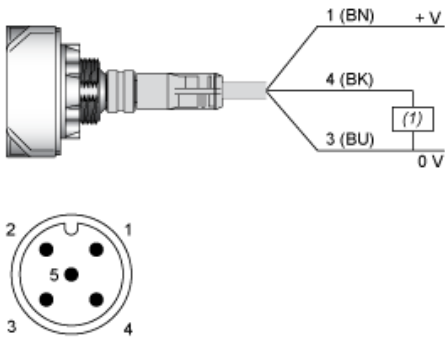
Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End of Life Information

Dimensions



Connections

Wiring Diagrams (Sensor Socket)

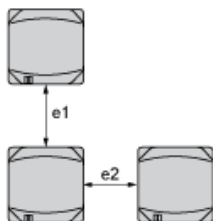


(1) Load

Pin no.	Description
1	+ 24 VDC
2	Reserved - Do not connect
3	0 V
4	PNP Output
5	Reserved - Do not connect

Mounting and Clearance

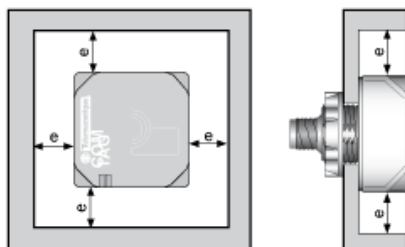
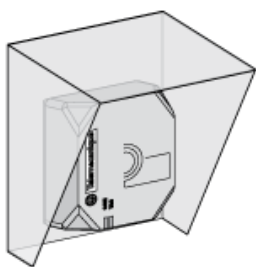
Minimum Distance Between 2 Identical Smart Antennas



$e1 = e2 \geq 310 \text{ mm} / 12.2 \text{ in.}$

Mounting and Clearance

Mounting on a Metal Structure



$e > 20 \text{ mm} / 0.7 \text{ in.}$