



### Main

Range of product	OsiSense XG
Product or component type	Electronic tag
RFID electronic tag name	XGHB
RFID frequency	13.56 MHz
Design	Cylindrical M12
Memory capacity	304 B
Associated smart antenna	XGCS
[Sn] nominal sensing distance	20 mm with XGCS49 18 mm with XGCS49 20 mm with XGCS89
Outer dimension	Ø12 x 8 mm
Quantity per set	Set of 5
Read time	12 + 0.825 x (number of 16-bit words) ms
Write time	19 + 4.1 x (number of 16-bit words) ms
IP degree of protection	IP68
Fixing mode	By screws

### Complementary

Memory type	EEPROM
Memory operation	Read/write
Number of read cycles	Unlimited
Number of write cycles	2500000 at 30 °C 100000 at -25...70 °C
Maximum linear speed with "auto read/write function"	With XGCS49 (read a serial number) With XGCS49 (read a word) With XGCS49 (read or write 10 words) With XGCS89 (read a serial number) With XGCS89 (read a word) With XGCS89 (read or write 10 words) With XGCS85 (read a serial number) With XGCS85 (read a word) With XGCS85 (read or write 10 words)
Data retention time	10 yr
Material	PBT (polybutylene terephthalate)

Disclaimer: 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

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Product weight	0.02 kg
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## Environment

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Standards	ISO 15693
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
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

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