Product data sheet
Characteristics

XGHB211345
RFID electronic tag - 13.56 MHz - cylindrical M18 - 256 Bytes

Green Premium™ Product

Main

Range of product	OsiSense XG
Product or component type	Electronic tag
RFID electronic tag name	XGHB
RFID frequency	13.56 MHz
Design	Cylindrical M18
Memory capacity	256 B
Associated smart antenna	XGCS
[Sn] nominal sensing distance	18 Mm with XGCS49 20 Mm with XGCS89 20 mm with XGCS85
Outer dimension	M18 x 1 x 12
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	100000 at -25…70 °C 2500000 at 30 °C
Maximum linear speed with "auto read/write function"	1.8 M/S with XGCS49 (read a serial number) 0.6 M/S with XGCS49 (read a word) 0.2 M/S with XGCS49 (read or write 10 words) 3.2 M/S with XGCS89 (read a serial number) 1.1 M/S with XGCS89 (read a word) 0.6 M/S with XGCS89 (read or write 10 words) 3.2 M/S with XGCS85 (read a serial number) 1.1 M/S with XGCS85 (read a word) 0.6 m/s with XGCS85 (read or write 10 words)
Data retention time	10 year(s)
Material	PBT (polybutylene terephthalate)
Net weight	0.02 kg

Environment

Standards	ISO 15693
Ambient air temperature for operation	-25…70 °C
Ambient air temperature for storage	–40…85 °C
Vibration resistance	2 mm conforming to EN 60068-2-6 (f = 5…29.5 Hz) 7 gn conforming to EN 60068-2-6 (f = 29.5…150 Hz)
Shock resistance	30 gn conforming to EN 60068-2-27 for 11 ms
IK degree of protection	IK02 conforming to EN 50102

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	5 g
Package 1 Height	2 cm
Package 1 width	6 cm
Package 1 Length	9 cm

Offer Sustainability

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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

Contractual warranty

Warranty	18 months

Dimensions

Updatable Code Electronic Tags

$\frac{mm}{in.}$

$\frac{12}{0.47}$

M18X1
M0.71X0.04
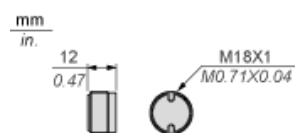
Minimum Mounting Distances

Distance Between Tags
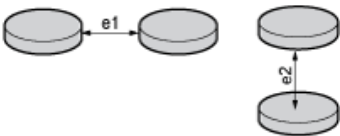
XGCS4901201 smart antenna (format 40)		XGCS8•• smart antennas (format 80)	
e1	e2	e1	e2
40	10	120	20

Minimum Mounting Distances in a Metal Structure

No metal parts within 25 mm of the tag

Telemecanique
Sensors