Product data sheet
Characteristics

XGHB320345
Electronic tag, Radio frequency identification XG, RFID 13.56 MHz, disc Ã˜ 30 x 3, 112 Bytes

Main

Range of product	Telemecanique Radio frequency identification XG
Product or component type	Electronic tag
RFID electronic tag name	XGHB
RFID frequency	13.56 MHz
Design	Disc
Memory capacity	112 B
Associated smart antenna	XGCS
[Sn] nominal sensing distance	42 Mm with XGCS49 + field expander XGFEC540 48 Mm with XGCS49 65 Mm with XGCS89 80 Mm with XGCS49 + field expander XGFEC2525 65 mm with XGCS85
Outer dimension	Ø 30 x 3 mm
Quantity per set	Set of 5
Read time	12 + 0.825 x (number of 16-bit words) ms
Write time	12 + 5.6 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…85 °C
Maximum linear speed with "auto read/write function"	3.1 M/S with XGCS49 (read a serial number) 1.4 M/S with XGCS49 (read a word) 0.7 M/S with XGCS49 (read or write 10 words) 5.8 M/S with XGCS89 (read a serial number) 2.7 M/S with XGCS89 (read a word) 0.9 M/S with XGCS89 (read or write 10 words) 5.8 M/S with XGCS85 (read a serial number) 2.7 M/S with XGCS85 (read a word) 0.9 m/s with XGCS85 (read or write 10 words)
Data retention time	10 year(s)
Material	PPA (polyphthalamide)
Net weight	0.005 kg

Environment

Standards	ISO 15693
Ambient air temperature for operation	-25…85 °C
Ambient air temperature for storage	-40…90 °C
Vibration resistance	2 mm conforming to IEC 60068-2-6 (f = 5…29.5 Hz) 7 gn conforming to IEC 60068-2-6 (f = 29.5…150 Hz)
Shock resistance	30 gn conforming to IEC 60068-2-27 for 11 ms
IK degree of protection	IK02 conforming to IEC 62262

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.
Neither TMSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.400 cm
Package 1 Width	3.000 cm
Package 1 Length	3.000 cm
Package 1 Weight	3.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Height	6.000 cm
Package 2 Width	9.000 cm
Package 2 Length	10.000 cm
Package 2 Weight	19.000 g
Unit Type of Package 3	S01
Number of Units in Package 3	250
Package 3 Height	15 cm
Package 3 Width	15 cm
Package 3 Length	40 cm
Package 3 Weight	1.080 kg

Offer Sustainability

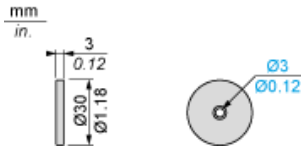
Sustainable offer status	Green Premium product
Toxic heavy metal free	Yes
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

Warranty	18 months

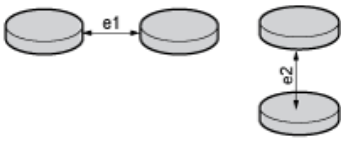
Dimensions

Updatable Code Electronic Tags



Minimum Mounting Distances

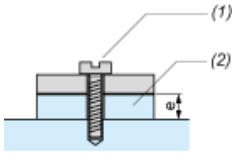
Distance Between Tags



XGCS4901201 smart antenna (format 40)		XGCS8•• smart antennas (format 80)	
e1	e2	e1	e2
70	50	190	60

Minimum Mounting Distances in a Metal Structure

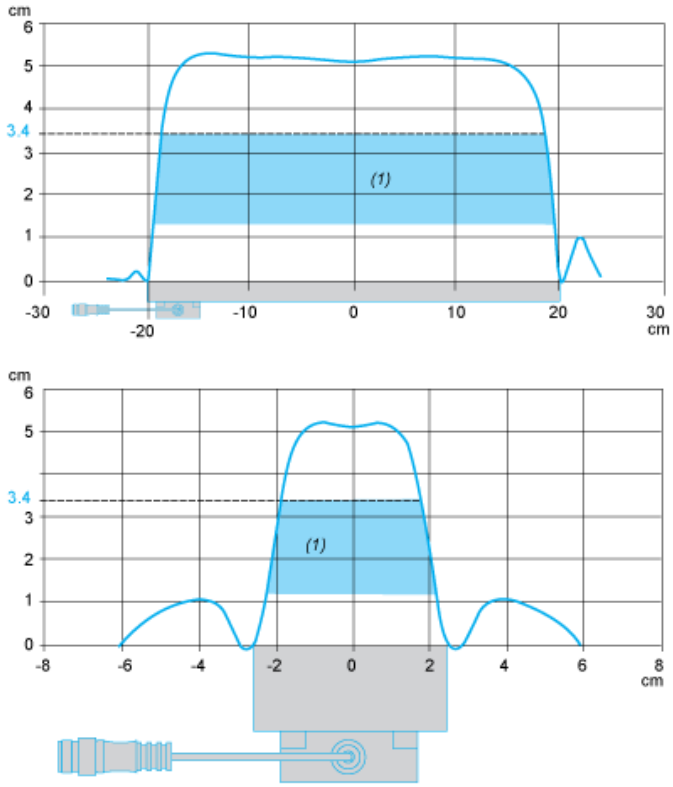
No metal parts within 15 mm of the tag



(e) ≥ 15 mm.
(1) Tightening torque ≤ 1 Nm/0.74 lb-ft
(2) Insulation material

Curves

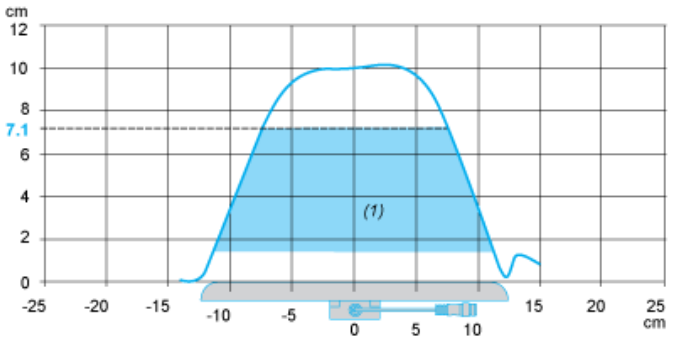
Dialogue Zones for Field Expanders



(1) Recommended working zone.

Curves

Dialogue Zones for Field Expanders



(1) Recommended working zone.