Product data sheet
Characteristics

XGHB520246

Electronic tag, Radio frequency identification
XG, RFID 13.56 MHz, disc Ø 50 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	100 Mm with XGCS89 150 Mm with XGCS49 + field expander XGFEC2525 70 Mm with XGCS49 70 Mm with XGCS49 + field expander XGFEC540 100 mm with XGCS85
Outer dimension	Ø 50 x 3 mm
Quantity per set	Set of 10
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"	0.6 M/S with XGCS49 (read or write 10 words) 5.3 M/S with XGCS49 (read a serial number) 1.6 M/S with XGCS49 (read a word) 7.1 M/S with XGCS89 (read a serial number) 4 M/S with XGCS89 (read a word) 0.8 M/S with XGCS89 (read or write 10 words) 7.1 M/S with XGCS85 (read a serial number) 4 M/S with XGCS85 (read a word) 0.8 m/s with XGCS85 (read or write 10 words)
Data retention time	10 year(s)
Material	PPA (polyphthalamide)
Net weight	0.015 kg

Environment

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Standards	ISO 15693
Ambient air temperature for operation	85…140 °C for 10 min maximum not during transmission -25…85 °C
Ambient air temperature for storage	-40…90 °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

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Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.0 cm
Package 1 Width	8.0 cm
Package 1 Length	10.0 cm
Package 1 Weight	5.0 g
Unit Type of Package 2	BAG
Number of Units in Package 2	10
Package 2 Height	8.0 cm
Package 2 Width	1.0 cm
Package 2 Length	10.0 cm
Package 2 Weight	60.0 g

Offer Sustainability

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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

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Dimensions

Updatable Code Electronic Tags

$\frac{mm}{in.}$
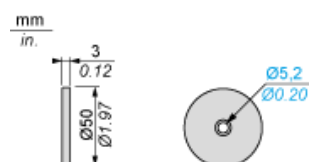
Minimum Mounting Distances

Distance Between Tags
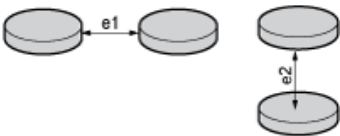
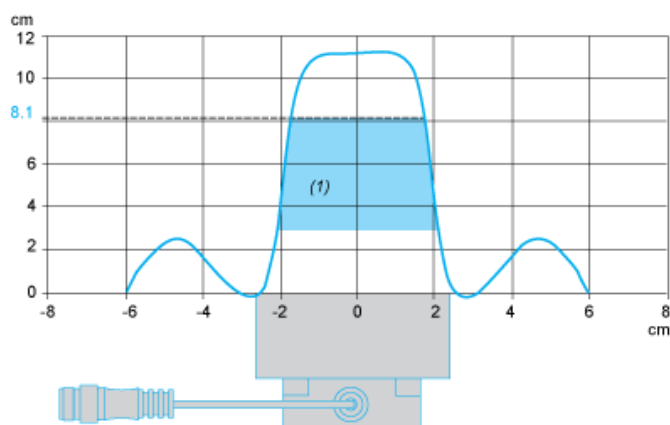| XGCS4901201 smart antenna (format 40)		XGCS8•• smart antennas (format 80)	
e1	e2	e1	e2
35	60	110	140

Minimum Mounting Distances in a Metal Structure

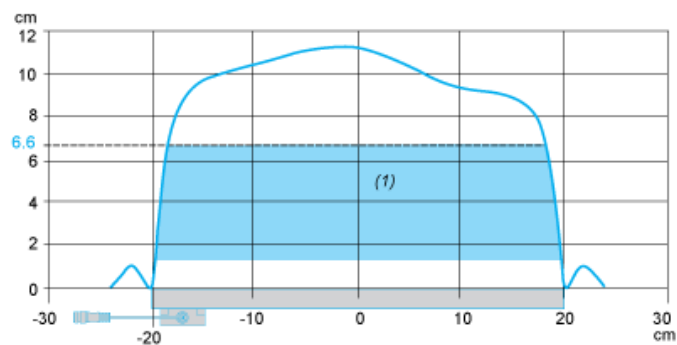No metal parts within 15 mm of the tag
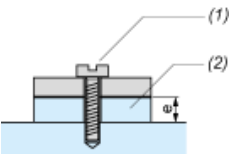
(e) ≥ 15 mm.
(1)   Tightening torque ≤ 1 Nm/0.74 lb-ft
(2)   Insulation material

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Curves

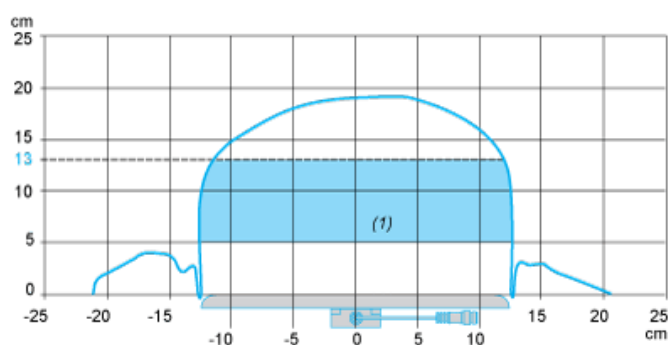### Dialogue Zones for Field Expanders

(1)   Recommended working zone.

Curves

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