Product data sheet
Characteristics

XGHB520246
RFID electronic tag - 13.56 MHz - disc Ø 50 x 3 - 112 Bytes

Main

Range of product	OsiSense 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

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

Telemecanique
Sensors

Packing Units

Package 1 Weight	0.005 kg
Package 1 Height	0.100 dm
Package 1 width	0.800 dm
Package 1 Length	1.000 dm

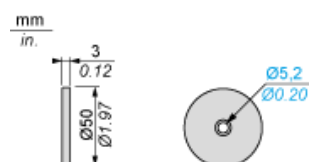## Offer Sustainability

|	
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes

Telemecanique
Sensors

Dimensions

Updatable Code Electronic Tags

$\frac{mm}{in.}$

3 / 0.12

Ø50 / Ø1.97

Ø5,2 / Ø0.20

Minimum Mounting Distances

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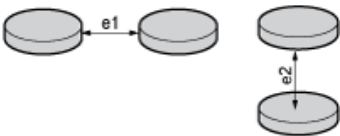
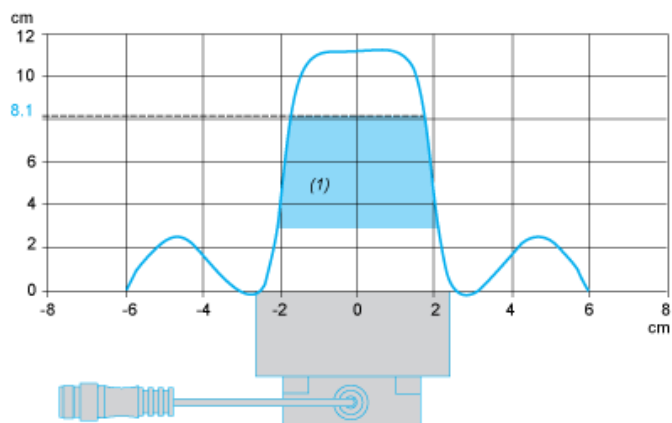| XGCS4901201 smart antenna (format 40)		XGCS8•• smart antennas (format 80)	
e1	e2	e1	e2
35	60	110	140

Minimum Mounting Distances in a Metal Structure

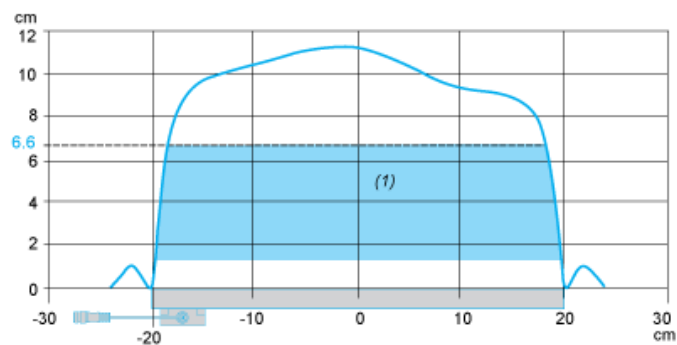No metal parts within 15 mm of the tag
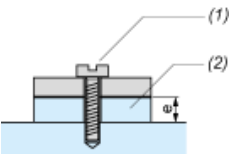
(e) ≥ 15 mm.
(1)   Tightening torque ≤ 1 Nm/0.74 lb-ft
(2)   Insulation material

Telemecanique
Sensors

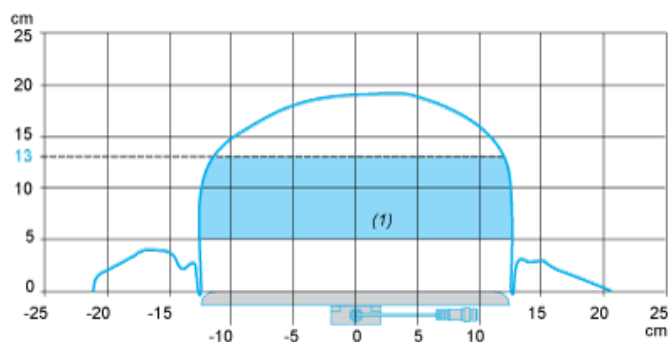# XGHB520246

Curves

Dialogue Zones for Field Expanders

(1)   Recommended working zone.

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