



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	3.94 In (100 mm) XGCS89 5.91 In (150 mm) XGCS49 + field expander XGFEC2525 2.76 In (70 mm) XGCS49 2.76 In (70 mm) XGCS49 + field expander XGFEC540 3.94 in (100 mm) 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 86 °F (30 °C) 100000 -13...185 °F (-25...85 °C)
Maximum linear speed with "auto read/write function"	1.97 Ft/S (0.6 m/s) XGCS49 read or write 10 words) 17.39 Ft/S (5.3 m/s) XGCS49 read a serial number) 5.25 Ft/S (1.6 m/s) XGCS49 read a word) 23.29 Ft/S (7.1 m/s) XGCS89 read a serial number) 13.12 Ft/S (4 m/s) XGCS89 read a word) 2.62 Ft/S (0.8 m/s) XGCS89 read or write 10 words) 23.29 Ft/S (7.1 m/s) XGCS85 read a serial number) 13.12 Ft/S (4 m/s) XGCS85 read a word) 2.62 ft/s (0.8 m/s) XGCS85 read or write 10 words)
Data Retention Time	10 year(s)
Material	PPA (polyphthalamide)
Net Weight	0.03 lb(US) (0.015 kg)

Environment

Standards	ISO 15693
Ambient air temperature for operation	185...284 °F (85...140 °C) 10 min not during transmission -13...185 °F (-25...85 °C)
Ambient Air Temperature for Storage	-40...194 °F (-40...90 °C)
Vibration resistance	2 mm 5...29.5 Hz)EN 60068-2-6 7 gn 29.5...150 Hz)EN 60068-2-6
Shock resistance	30 gn 11 ms EN 60068-2-27
IK degree of protection	IK02 EN 50102

Ordering and shipping details

Category	22491-SENS,IDENTIFICATION DEVICE (XGK)
Discount Schedule	DS2
GTIN	3389119615082
Returnability	No
Country of origin	FR

Packing Units

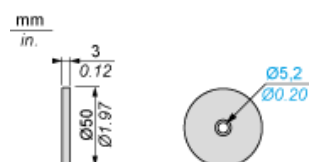
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.39 in (1.0 cm)
Package 1 Width	3.15 in (8.0 cm)
Package 1 Length	3.94 in (10.0 cm)
Package 1 Weight	0.18 oz (5.0 g)
Unit Type of Package 2	BAG
Number of Units in Package 2	10
Package 2 Height	3.15 in (8.0 cm)
Package 2 Width	0.39 in (1.0 cm)
Package 2 Length	3.94 in (10.0 cm)
Package 2 Weight	2.12 oz (60.0 g)

Offer Sustainability

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
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

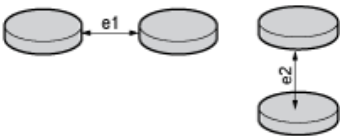
Dimensions

Updatable Code Electronic Tags



Minimum Mounting Distances

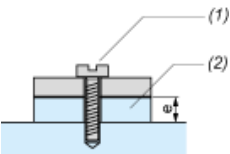
Distance Between Tags



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

Minimum Mounting Distances in a Metal Structure

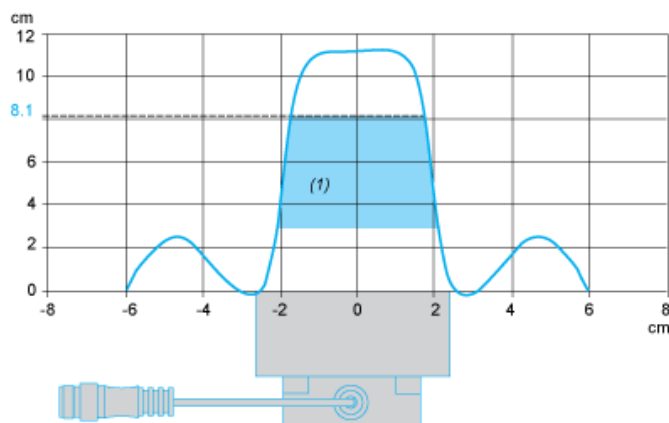
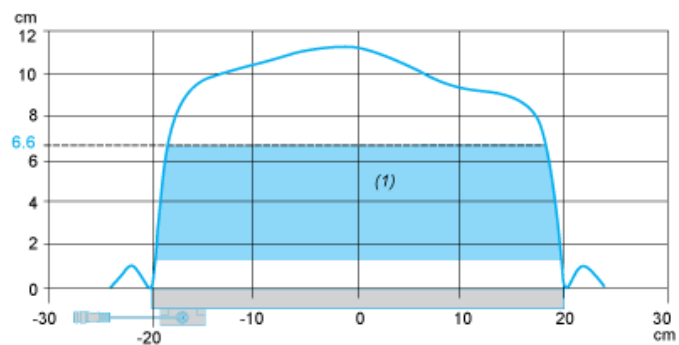
No metal parts within 15 mm of the tag



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

Curves

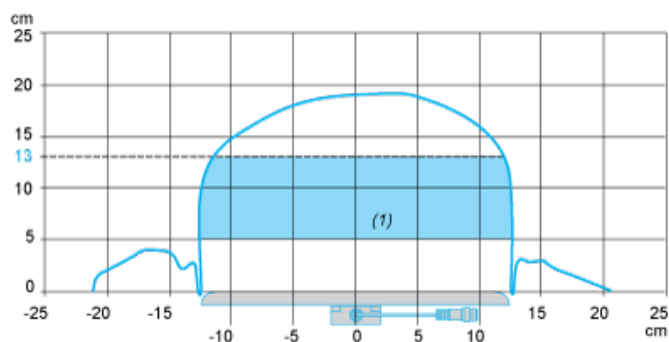
Dialogue Zones for Field Expanders



(1) Recommended working zone.

Curves

Dialogue Zones for Field Expanders



(1) Recommended working zone.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Telemecanique Sensors:](#)

[XGHB520246](#)