

Product data sheet

XGHB320345

RFID electronic tag XG, 13.56 MHz, disc 30x3 mm, 112 Bytes, EEPROM

Main

Range of product	Telemecanique Radio frequency identification XG
Product or component type	Electronic tag
RFID electronic tag name	XGHB
Design	Disc
Sensor design	DISC
ETIM classification	ETIM 9 - EC002996 - RFID transponder
Material	PPA (polyphthalamide)
Fixing mode	By screws
RFID frequency	13.56 MHz
[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
Memory capacity	112 B
Outer dimension	Ø 30 x 3 mm
Read time	12 + 0.825 x (number of 16-bit words) ms
Write time	12 + 5.6 x (number of 16-bit words) ms
Standards	ISO 15693
Indivisible sale quantity	5
Quantity per set	Set of 5

Complementary

Memory type	EEPROM
Number of read cycles	Unlimited
Data retention time	10 year
Memory operation	Read/write
Number of write cycles	2500000 at 30-30 °C, 100000 at -25-85 °C
Passing speed of object	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)
Product weight	0.005 kg

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.
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Environment

IK degree of protection	IK02 conforming to IEC 62262
IP degree of protection	IP68
Ambient air temperature for operation	-25…85 °C
Ambient air temperature for operation	-25-85 °C
Ambient air temperature for storage	-40…90 °C
Shock resistance	30 gn conforming to IEC 60068-2-27 for 11 ms
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)

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

Warranty

Warranty	18 months

Packing Units

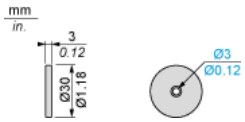
Country of origin	MY (Malaysia)
Unit type of package 1	PCE
Number of units in package 1	1
New Package 1 GTIN-13	3666916060599
Package 1 height	0.4 cm
Package 1 width	3 cm
Package 1 length	3 cm
Package 1 weight	0.005 kg
Unit type of package 2	S01
Number of units in package 2	250
New Package 2 GTIN 14	13666916060596
Package 2 height	15 cm
Package 2 width	15 cm
Package 2 length	40 cm
Package 2 weight	1.08 kg
Unit type of package 3	S02
Number of units in package 3	200
New Package 3 GTIN 14	23666916060593
Package 3 height	15 cm

Package 3 width	30 cm
Package 3 length	40 cm
Package 3 weight	1.08 kg

Technical Drawings

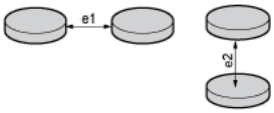
Dimensions

Updatable Code Electronic Tags

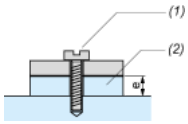


Minimum Mounting Distances

Distance Between Tags



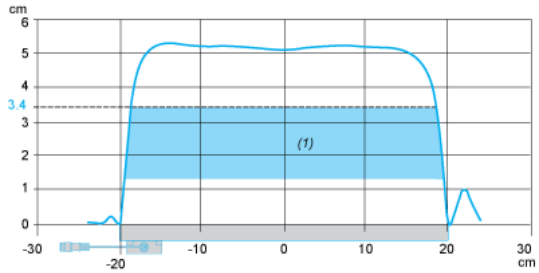
Minimum Mounting Distances in a Metal Structure



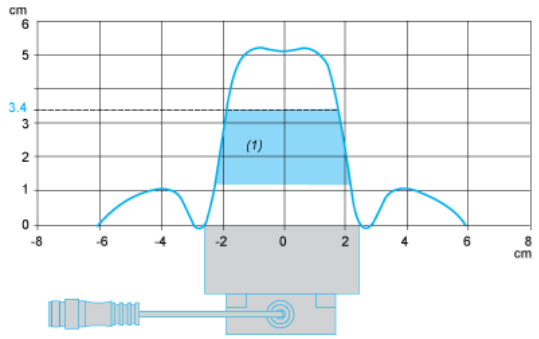
- (e) ≥ 15 mm.
- (1) Tightening torque ≤ 1 Nm/0.74 lb-ft
- (2) Insulation material

Curves

Dialogue Zones for Field Expanders



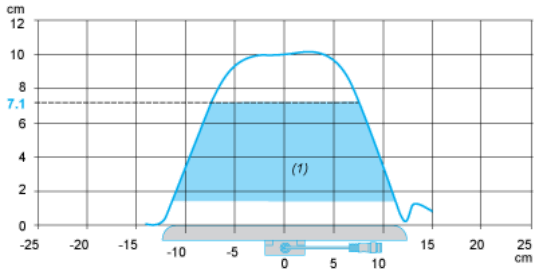
Dialogue Zones for Field Expanders



- (1) Recommended working zone.

Curves

Dialogue Zones for Field Expanders



- (1) Recommended working zone.