

## Product data sheet

### Characteristics

# XGHB221346

Electronic tag, Radio frequency identification  
XG, RFID 13.56 MHz, flat form 26 x 26 x 13  
-256 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                        | Flat form 26 x 26 x 13                                                                                      |
| Memory capacity               | 256 B                                                                                                       |
| Associated smart antenna      | XGCS                                                                                                        |
| [Sn] nominal sensing distance | 40 Mm with XGCS49<br>42 Mm with XGCS49 + field expander XGFEC2525<br>55 Mm with XGCS89<br>55 mm with XGCS85 |
| Outer dimension               | 26 x 26 x 13 mm                                                                                             |
| Quantity per set              | Set of 1                                                                                                    |
| Read time                     | 12 + 0.825 x (number of 16-bit words) ms                                                                    |
| Write time                    | 20 + 11.8 x (number of 16-bit words) ms                                                                     |
| IP degree of protection       | IP68                                                                                                        |
| Fixing mode                   | By screws<br>By clips                                                                                       |

### Complementary

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Memory type                                          | EEPROM                                                                                                                                                                                                                                                                                                                                                                                                |
| Memory operation                                     | Read/write                                                                                                                                                                                                                                                                                                                                                                                            |
| Number of read cycles                                | Unlimited                                                                                                                                                                                                                                                                                                                                                                                             |
| Number of write cycles                               | 100000 at -25...70 °C<br>2500000 at 30 °C                                                                                                                                                                                                                                                                                                                                                             |
| Maximum linear speed with "auto read/write function" | 2.8 M/S with XGCS49 (read a serial number)<br>0.8 M/S with XGCS49 (read a word)<br>0.3 M/S with XGCS49 (read or write 10 words)<br>4.2 M/S with XGCS89 (read a serial number)<br>2.6 M/S with XGCS89 (read a word)<br>0.5 M/S with XGCS89 (read or write 10 words)<br>4.2 M/S with XGCS85 (read a serial number)<br>2.6 M/S with XGCS85 (read a word)<br>0.5 m/s with XGCS85 (read or write 10 words) |
| Data retention time                                  | 10 year(s)                                                                                                                                                                                                                                                                                                                                                                                            |
| Mounting location                                    | Possible on metal support                                                                                                                                                                                                                                                                                                                                                                             |
| Material                                             | PBT (polybutylene terephthalate)                                                                                                                                                                                                                                                                                                                                                                      |
| Net weight                                           | 0.025 kg                                                                                                                                                                                                                                                                                                                                                                                              |

## Environment

|                                       |                                                                                                          |
|---------------------------------------|----------------------------------------------------------------------------------------------------------|
| Standards                             | ISO 15693                                                                                                |
| Ambient air temperature for operation | -25...70 °C                                                                                              |
| Ambient air temperature for storage   | -40...85 °C                                                                                              |
| Vibration resistance                  | 2 mm conforming to EN 60068-2-6 (f = 5...29.5 Hz)<br>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                                                                              |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 9.000 cm  |
| Package 1 Width              | 2.000 cm  |
| Package 1 Length             | 6.000 cm  |
| Package 1 Weight             | 21.000 g  |
| Unit Type of Package 2       | S01       |
| Number of Units in Package 2 | 25        |
| Package 2 Height             | 15 cm     |
| Package 2 Width              | 15 cm     |
| Package 2 Length             | 40 cm     |
| Package 2 Weight             | 762.000 g |

## Offer Sustainability

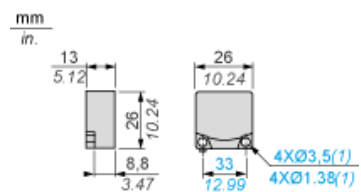
|                            |                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                 |
| REACH Regulation           |  <a href="#">REACH Declaration</a> |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)                                                            |
| Mercury free               | Yes                                                                                                                   |
| RoHS exemption information |  Yes                               |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Dimensions

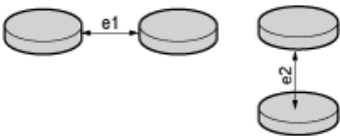
### Updatable Code Electronic Tags



(1) For CHC type screws

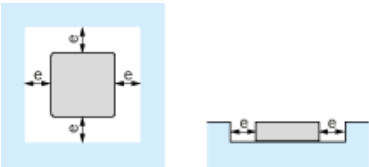
Minimum Mounting Distances

Distance Between Tags



| XGCS4901201 smart antenna (format 40) |    | XGCS8•• smart antennas (format 80) |    |
|---------------------------------------|----|------------------------------------|----|
| e1                                    | e2 | e1                                 | e2 |
| 50                                    | 10 | 120                                | 50 |

Minimum Mounting Distances in a Metal Structure



(e) ≥ 20 mm.