



## 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 | 42 Mm with XGCS49 + field expander XGFEC540<br>48 Mm with XGCS49<br>65 Mm with XGCS89<br>80 Mm with XGCS49 + field expander XGFEC2525<br>65 mm with XGCS85 |
| Outer dimension               | Ø 30 x 3 mm  |
| Quantity per set              | Set of 5   |
| 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<br>100000 at -25...85 °C   |
| Maximum linear speed with "auto read/write function" | 3.1 M/S with XGCS49 (read a serial number)<br>1.4 M/S with XGCS49 (read a word)<br>0.7 M/S with XGCS49 (read or write 10 words)<br>5.8 M/S with XGCS89 (read a serial number)<br>2.7 M/S with XGCS89 (read a word)<br>0.9 M/S with XGCS89 (read or write 10 words)<br>5.8 M/S with XGCS85 (read a serial number)<br>2.7 M/S with XGCS85 (read a word)<br>0.9 m/s with XGCS85 (read or write 10 words) |
| Data retention time                                  | 10 year(s)  |
| Material   | PPA (polyphthalamide)   |
| Net weight   | 0.005 kg  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | ISO 15693  |
| Ambient air temperature for operation | -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)<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 Weight             | 4 g      |
| Package 1 Height             | 6 cm     |
| Package 1 width              | 9 cm     |
| Package 1 Length             | 10 cm    |
| Unit Type of Package 2       | BAG      |
| Number of Units in Package 2 | 5        |
| Package 2 Weight             | 20 g     |
| Package 2 Height             | 9 cm     |
| Package 2 width              | 6 cm     |
| Package 2 Length             | 10 cm    |
| Unit Type of Package 3       | S01      |
| Number of Units in Package 3 | 250      |
| Package 3 Weight             | 1.016 kg |
| Package 3 Height             | 15 cm    |
| Package 3 width              | 15 cm    |
| Package 3 Length             | 40 cm    |

## Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| REACH Regulation           | <a href="#">REACH Declaration</a>  |
| REACH free of SVHC         | Yes  |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a> |
| Toxic heavy metal free     | Yes  |
| Mercury free               | Yes  |
| RoHS exemption information | <a href="#">Yes</a>  |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>  |
| Circularity Profile        | <a href="#">End of Life Information</a>  |

## Contractual warranty

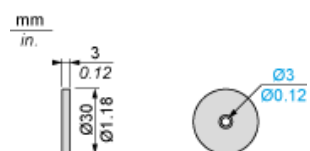
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

---

Dimensions

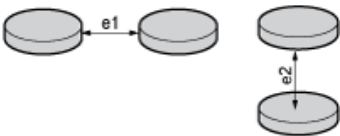
---

Updatable Code Electronic Tags



Minimum Mounting Distances

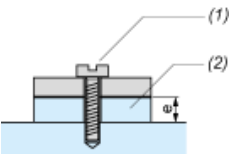
Distance Between Tags



| XGCS4901201 smart antenna (format 40) |    | XGCS8•• smart antennas (format 80) |    |
|---------------------------------------|----|------------------------------------|----|
| e1                                    | e2 | e1                                 | e2 |
| 70                                    | 50 | 190                                | 60 |

Minimum Mounting Distances in a Metal Structure

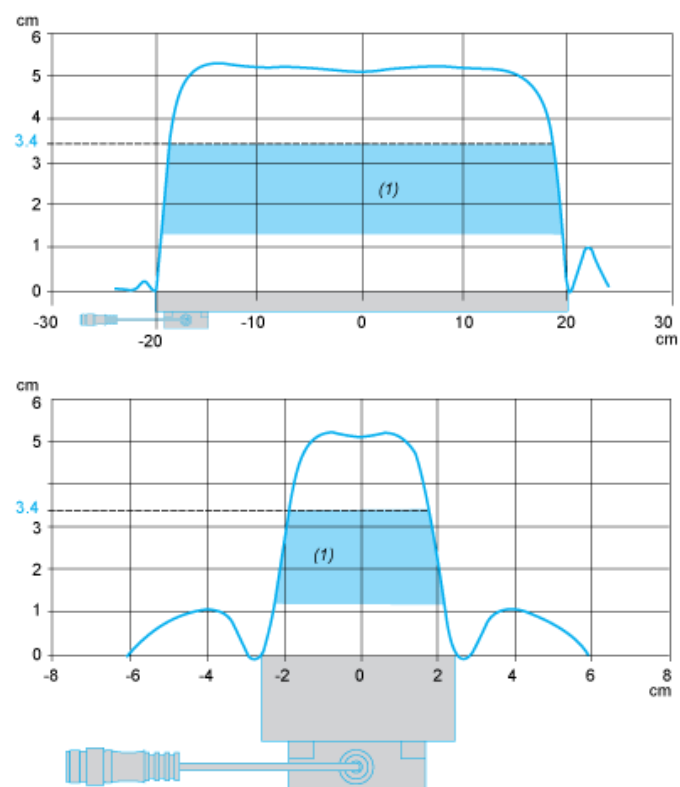
No metal parts within 15 mm of the tag



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

## Curves

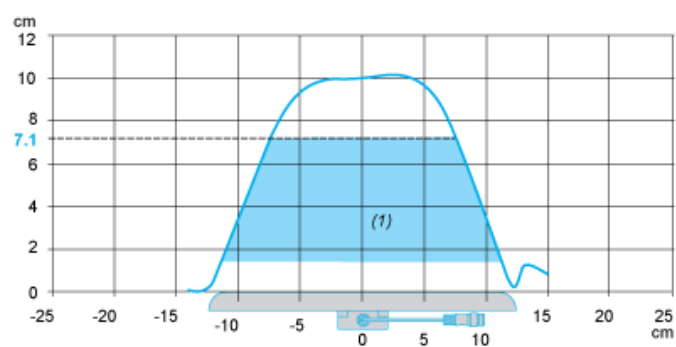
### Dialogue Zones for Field Expanders



(1) Recommended working zone.

## Curves

### Dialogue Zones for Field Expanders



(1) Recommended working zone.