



Main

| | |
|---------------------------|--|
| Range of Product | Telemecanique Limit switches XC Standard |
| Series name | Miniature format |
| Product or Component Type | Wireless limit switch |
| Device short name | XCMW |
| Sensor design | Miniature |
| Body type | Fixed |
| Head type | Plunger head |

Complementary

| | |
|------------------------------|---|
| Body material | Plastic |
| Head material | Metal |
| Lever material | Metal |
| Fixing Mode | By 2 screws |
| Type of operator | Spring return plunger metal |
| Switch actuation | On end |
| Type of approach | Vertical approach, 1 direction |
| Communication network type | ZigBee green power 2.4 GHz IEEE 802.15.4 |
| Electrical composition code | PW1 |
| Emission Power | 3 mW |
| Response Time | <= 2 ms |
| Maximum sensing distance | 328.08 Ft (100 m) in free field 984.25 Ft (300 m) with external antenna 82.02 ft (25 m) in industrial environment |
| Contact operation | Snap action |
| Number of steps | 1 |
| Maximum force for tripping | 50 N |
| Maximum actuation speed | 0.33 ft/s (0.1 m/s) |
| Maximum operating rate | 60 cyc/mn |
| Mechanical durability | 400000 cycles |
| Switching operation per hour | 3600 |
| Width | 1.18 in (30.0 mm) |
| Height | 2.91 in (74 mm) |
| Depth | 0.63 in (16.0 mm) |
| Net Weight | 0.09 lb(US) (0.039 kg) |

Environment

| | |
|---------------------------------------|---|
| Electromagnetic compatibility | Radiated emission Immunity for industrial environments Susceptibility to electromagnetic fields - test level: 3 V/m (80...2700 MHz, distance = 20 m) Susceptibility to electromagnetic fields - test level: 10 V/m (80...2000 MHz) Electrostatic discharge immunity test - test level: 6 kV (on contact (on metal parts)) Electrostatic discharge immunity test - test level: 8 kV (in free air (in insulating parts)) |
| Shock resistance | 50 gn 11 ms IEC 60068-2-27 |
| Vibration resistance | 25 gn 10...500 Hz)IEC 60068-2-6 +/- 10 mm 2...11 Hz)IEC 60068-2-6 |
| IP degree of protection | IP65 conforming to IEC 60529 |
| IK degree of protection | IK04 conforming to IEC 62262 |
| Ambient Air Temperature for Operation | -13...131 °F (-25...55 °C) |
| Ambient Air Temperature for Storage | -40...158 °F (-40...70 °C) |
| Directives | 1999/5/EC - R&TTE directive 2004/108/EC - electromagnetic compatibility |
| Standards | IEC 60947-1 IEC 60947-5-1 |
| Radio agreement | IC RSS[RETURN]FCC RCM |

Ordering and shipping details

| | |
|-------------------|---------------|
| Category | US1000T22412 |
| Discount Schedule | 000T |
| GTIN | 3389119643924 |
| Returnability | No |
| Country of origin | FR |

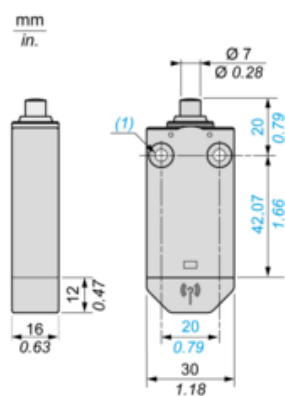
Packing Units

| | |
|------------------------------|------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.30 in (3.300 cm) |
| Package 1 Width | 1.97 in (5.000 cm) |
| Package 1 Length | 5.12 in (13.000 cm) |
| Package 1 Weight | 1.90 oz (54.000 g) |
| Unit Type of Package 2 | S01 |
| Number of Units in Package 2 | 22 |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 Width | 5.91 in (15 cm) |
| Package 2 Length | 15.75 in (40 cm) |
| Package 2 Weight | 3.02 lb(US) (1.371 kg) |

Offer Sustainability

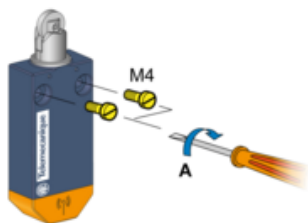
| | |
|--|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| For all Reach Rohs enquiries contact us at | sustainability@tesensors.com |

Dimensions



(1) : 2 fixing holes Ø 4.2 mm (Ø 0.17 in.)

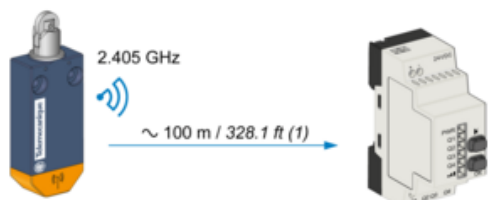
Screw Mounting



$$A = 1 \text{ Nm} \pm 0.1$$

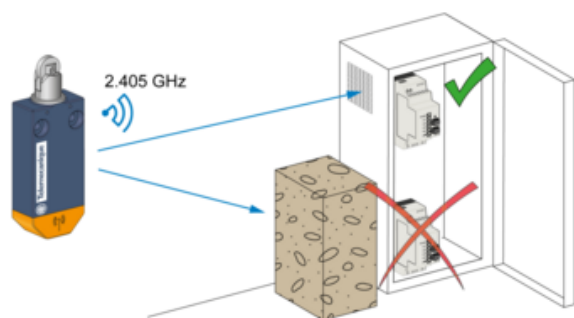
$$A = 8.85 \text{ lb.in.} \pm 0.89$$

Unobstructed Mounting

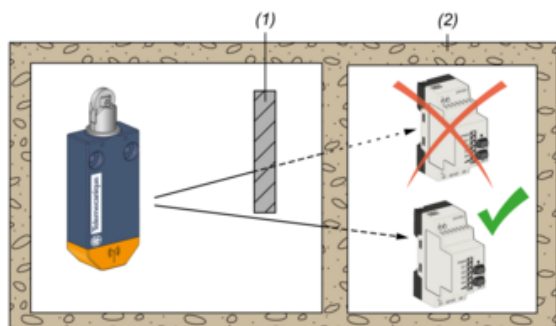


(1) : Typical values that may be modified by the application environment.

Mounting in a Metal Cabinet



Signal Attenuation According to the Material



(1) : Metal structure

(2) : Wall

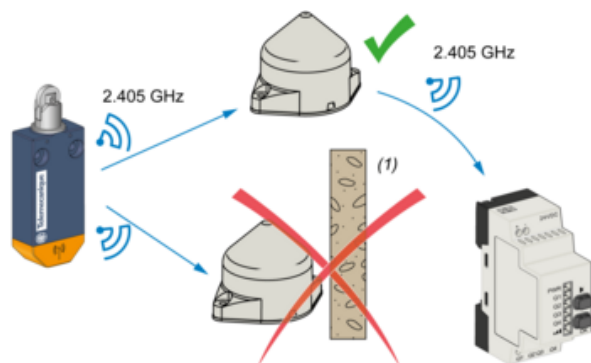
(3) : Values for indication purposes only

NOTE: Actual values depend on the thickness and nature of the material.

| Material | Signal attenuation (%) |
|-----------------|------------------------|
| Glass window | 10...20% (3) |
| Plaster wall | 20...45% (3) |
| Brick wall | 60% (3) |
| Concrete wall | 70...80% (3) |
| Metal structure | 50...100% (3) |

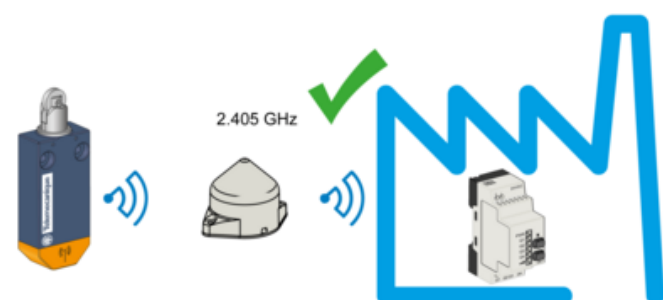
Mounting Tips for Antenna

Optimized Installation

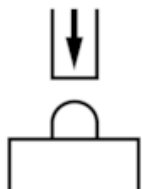


(1) : Obstacle

The Relay Antenna is used to Bypass an Obstacle and/or Increase the Range

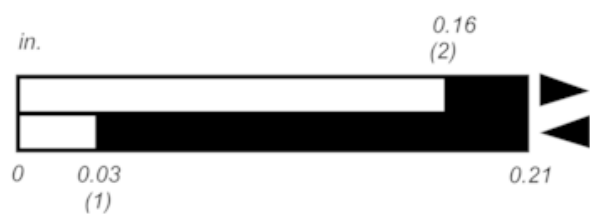
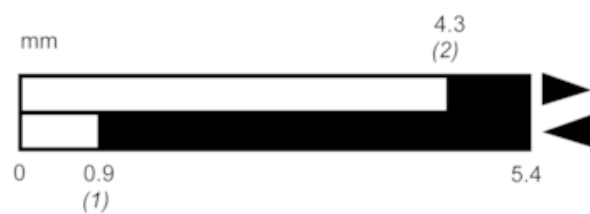


Characteristics of Actuation



Technical Description

Functional Diagram, Travel Distance



(1) : Reset

(2) : Set