



Main

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|---------------------------|--|
| Range of product | Telemecanique Limit switches XC Standard |
| Series name | Miniature format |
| Product or component type | Wireless limit switch |
| Device short name | XCMW |
| Body type | Fixed |
| Head type | Rotary head |

Complementary

| | |
|------------------------------|--|
| Body material | Plastic |
| Head material | Metal |
| Lever material | Metal |
| Fixing mode | By 2 screws |
| Type of operator | Rod lever |
| Switch actuation | By 30° cam |
| Type of approach | Lateral approach, 2 directions |
| Communication network type | ZigBee green power - 2.4 GHz conforming to IEEE 802.15.4 |
| Electrical composition code | PW1 |
| Emission power | 3 mW |
| Response time | <= 2 ms |
| Maximum sensing distance | 100 M in free field 300 M with external antenna 25 m in industrial environment |
| Contact operation | Snap action |
| Number of steps | 1 |
| Maximum force for tripping | 50 N |
| Maximum torque for tripping | 0.5 N.m |
| Maximum actuation speed | 0.1 m/s |
| Maximum operating rate | 60 cyc/mn |
| Mechanical durability | 400000 cycles |
| Switching operation per hour | 3600 |
| Width | 30.0 mm |
| Height | 246 mm |
| Depth | 16.0 mm |
| Net weight | 0.082 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 for 11 ms conforming to IEC 60068-2-27 |
| Vibration resistance | 25 gn (f= 10...500 Hz) conforming to IEC 60068-2-6 +/- 10 mm (f= 2...11 Hz) conforming to IEC 60068-2-6 |
| IP degree of protection | IP65 conforming to IEC 60529 |
| IK degree of protection | IK04 conforming to EN 50102 |
| Ambient air temperature for operation | -25...55 °C |
| Ambient air temperature for storage | -40...70 °C |
| Directives | 1999/5/EC - R&TTE directive 2004/108/EC - electromagnetic compatibility |
| Standards | EN/IEC 60947-1 EN/IEC 60947-5-1 |
| Radio agreement | IC conforming to RSS FCC conforming to RCM |

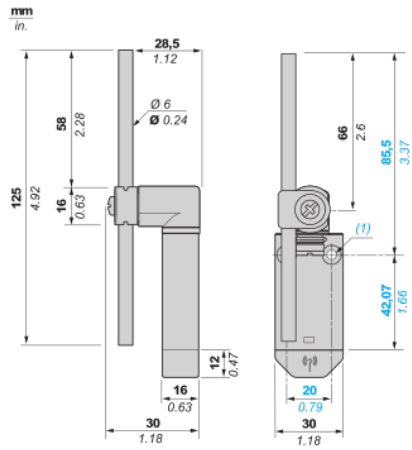
Packing Units

| | |
|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 4 cm |
| Package 1 Width | 5.3 cm |
| Package 1 Length | 20.5 cm |
| Package 1 Weight | 142 g |
| Unit Type of Package 2 | S01 |
| Number of Units in Package 2 | 4 |
| Package 2 Height | 15 cm |
| Package 2 Width | 15 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 1.74 kg |

Offer Sustainability

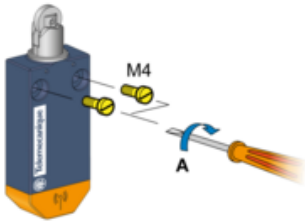
| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| 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 |

Dimensions



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

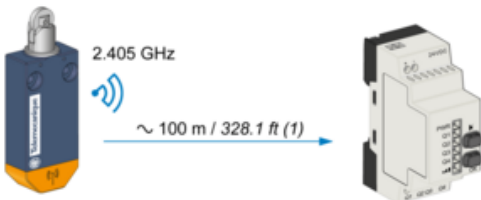
Screw Mounting



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

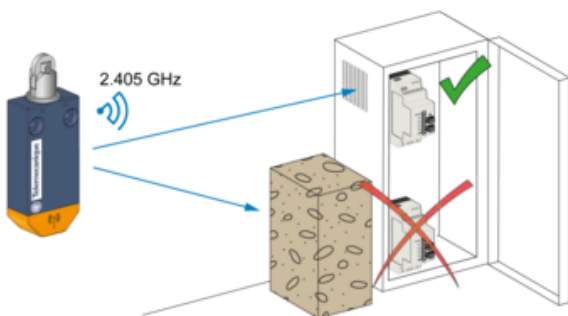
$A = 8.85 \text{ lb.in.} \pm 0.89$

Unobstructed Mounting

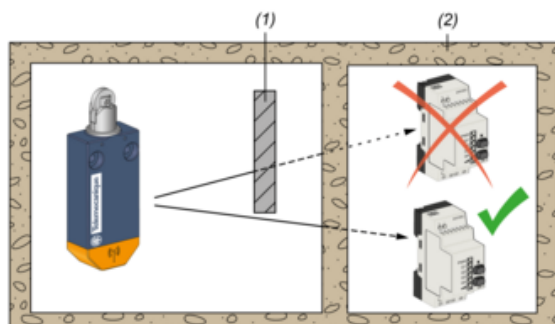


(1) : Typical values that may be modified by the application environment.

Mounting in a Metal Cabinet



Signal Attenuation According to the Material



(1) : Metal structure

(2) : Wall

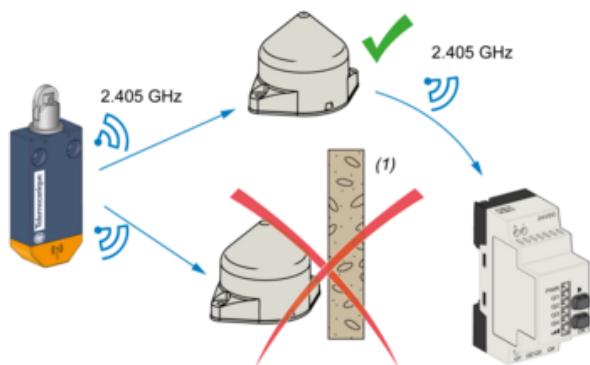
(3) : Values for indication purposes only

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) |

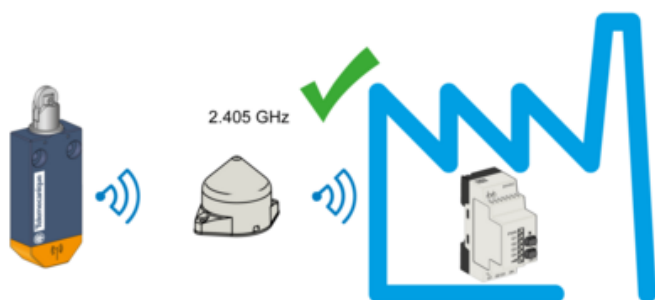
Mounting Tips for Antenna

Optimized Installation

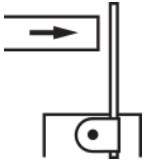


(1) : Obstacle

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

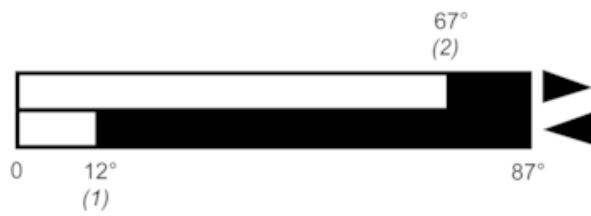


Characteristics of Actuation



Technical Description

Functional Diagram, Travel Distance



- (1): Reset
- (2): Set