

Product data sheet

XCMW102

Wireless and batteryless limit switch XCMW, metal roller plunger, radio transmitter

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
ETIM classification	ETIM 9 - EC000030 - End switch
Body type	Fixed
Head type	Plunger head
Body material	Plastic
Head material	Metal
Lever material	Metal
Fixing mode	By 2 screws
Type of operator	Spring return roller plunger metal
Switch actuation	By 30° cam
Type of approach	Lateral approach, 2 directions
Maximum force for tripping	50 N
Maximum sensing distance	100 m in free field, 300 m with external antenna, 25 m in industrial environment
Directives	1999/5/EC - R&TTE directive 2004/108/EC - electromagnetic compatibility
Standards	IEC 60947-1 IEC 60947-5-1
Indivisible sale quantity	1

Complementary

Mechanical durability	400000 cycles
Maximum actuation speed	0.1 m/s
Electrical composition code	PW1
Contact operation	Snap action
Operating rate	60 c.p.m
Communication network type	ZigBee green power - 2.4 GHz conforming to IEEE 802.15.4

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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Response time	<= 2 ms
Emission power	3 MW
Width	30 mm
Depth	16 mm
Product weight	0.046 kg

Environment

IK degree of protection	IK04 conforming to IEC 62262
IP degree of protection	IP65 conforming to IEC 60529
Ambient air temperature for operation	-25…55 °C
Ambient air temperature for storage	-40…70 °C
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
Radio agreement	IC conforming to RSS, FCC conforming to RCM
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))

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

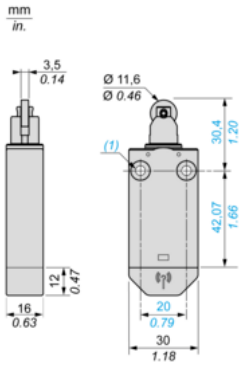
Packing Units

Country of origin	FR (France)
Unit type of package 1	PCE
Number of units in package 1	1
New Package 1 GTIN-13	3666916053416
Package 1 height	3.3 cm
Package 1 width	5 cm
Package 1 length	13 cm
Package 1 weight	0.061 kg
Unit type of package 2	S01
Number of units in package 2	22
New Package 2 GTIN 14	13666916053413
Package 2 height	15 cm

Package 2 width	15 cm
Package 2 length	40 cm
Package 2 weight	1.527 kg
New Package 3 GTIN 14	23666916053410

Technical Drawings

Dimensions



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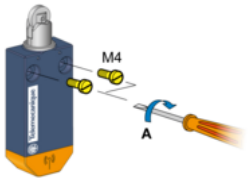
Screw Mounting



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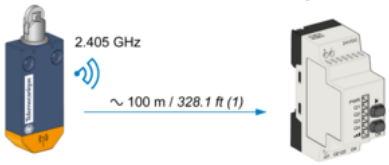
± 0.1
A =
± 0.89

Unobstructed Mounting



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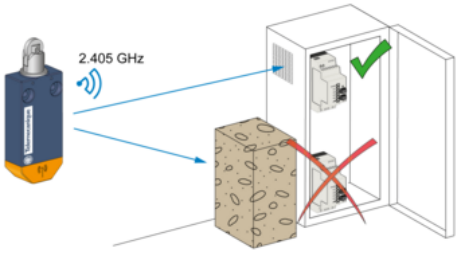
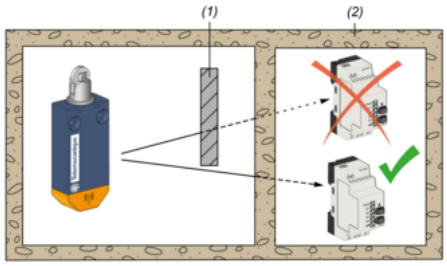
Mounting in a Metal Cabinet



Signal Attenuation According to the Material



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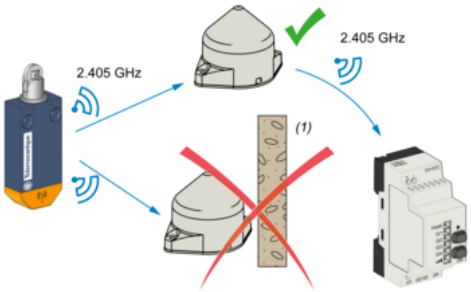
NOTE:

Mounting Tips for Antenna

Optimized Installation



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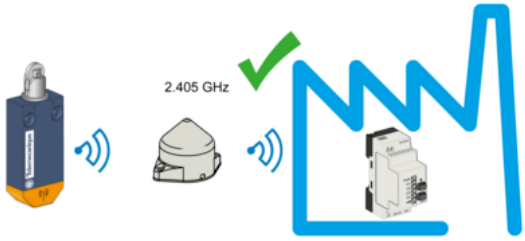
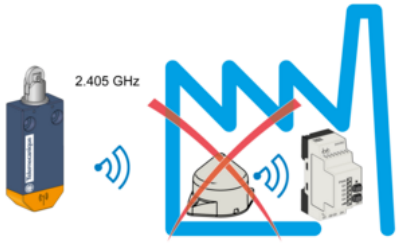
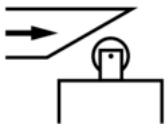
Mounting Tips for Antenna

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





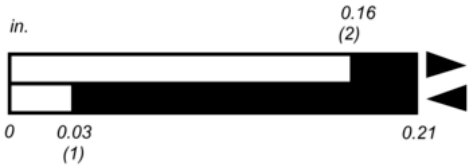
Characteristics of Actuation



Technical Description

Functional Diagram, Travel Distance





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