FL WLAN 2101 - Wireless module

2702540

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WLAN access point, client for USA and Canada, with 2 internal antennas for single-hole mounting, IP66/IP68, WLAN 802.11 a, b, g, n, frequency: 2.4 GHz, 5 GHz, connections: COMBICON 9 ... 32 V DC, RJ45: for LAN, web, http/https, CLI

Commercial data

Item number	2702540
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN26
Product key	DNN2W4
GTIN	4055626279503
Weight per piece (including packing)	375 g
Weight per piece (excluding packing)	337 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Notes

Note on application

Note on application	Only for industrial use

Product properties

Product type	Wireless module
Type	Stand-Alone

Insulation characteristics

Overvoltage category	none
Pollution degree	2

Wireless card

Number	1
Type	IEEE 802.11 a/b/g/n 2.4 GHz and 5 GHz to 300 Mbps
Assembly note	Permanently installed

Electrical properties

Maximum power dissipation for nominal condition	4.5 W

Supply: Module electronics

Connection technology	COMBICON
Connection method	Push-in spring connection
Note on the connection method	Recommended conductor cross section: 0.75 mm²
	Recommended ferrule: connection length 10 mm
	Recommended crimping pliers: trapezoidal or square
Designation	1966101 FMC 1,5/ 3-STF-3,5
Number of positions	3
Cross section range AWG	24 ... 16 (Use copper wires rated 75° C (UL))
Supply voltage	24 V DC (SELV)
Supply voltage range	18 V DC ... 32 V DC (PELV/SELV)
	9 V DC ... 32 V DC (PELV/SELV (HW version 06 or later))
Supply current	typ. 120 mA (at 24 V DC)
Current consumption	max. 250 mA (at 18 V DC)
	max. 400 mA (at 9 V DC)

Connection data

1966101 FMC 1,5/ 3-STF-3,5

Connection method	Push-in spring connection
Conductor cross section, rigid	0.2 mm² ... 1.5 mm²
Conductor cross section, flexible	0.2 mm² ... 1.5 mm²
Conductor cross section AWG	24 ... 16

Stripping length	10 mm

Interfaces

Antenna

Number	2
Connection method	permanently installed
Note on the connection method	MIMO
Gain	5 dBi

Functions

Operating modes	Access Point / Client Adapter / Repeater
Configuration	Web-based management, automated CLI
Quality of service (QoS)	Yes
Security	802.11i
	WPA PSK (preshared key)
	WPA2
	AES
	TKIP
	MAC filter
	Supports 802.1X/RADIUS
Wireless licenses	USA, Canada
Country support	USA
	Canada
	Argentina

Ethernet (RJ45)

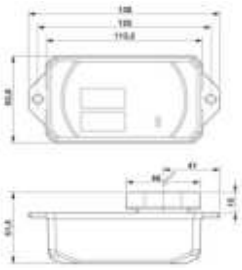
Number of interfaces	1
Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)
No. of channels	1 (RJ45 ports)

Wireless

Designation	Wireless LAN
Antenna connection method	(Internal)
Frequency band	2.4 GHz
	5 GHz
Wireless standard	WLAN
	IEEE 802.11
	a
	b
	g
	n

	Wi-Fi 4
Transmission power	max. 20 dBm (EIRP)
Number of wireless interfaces	1 IEEE 802. 11 a/b/g/n
Wireless modules that can be connected	60 (In access point mode)

Dimensions

Dimensional drawing	
Width	62.8 mm
Height	36.5 mm
Depth	113.2 mm
Note on dimensions	Outside dimensions

Material specifications

Material base plate	Die-cast zinc, nickel-plated
Housing material	PC

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP66
	IP67
	IP68
Ambient temperature (operation)	-40 °C ... 60 °C
Note	Degree of protection when installed
Air pressure (operation)	800 hPa ... 1080 hPa (up to 2000 m above sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (up to 3500 m above sea level)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

EMC data

Electrostatic discharge

Standards/regulations	EN 61000-4-2

Electrostatic discharge

Contact discharge	± 4 kV
Discharge in air	± 8 kV

Indirect discharge	± 6 kV

Electromagnetic HF field

Standards/regulations	EN 61000-4-3

Electromagnetic HF field

Frequency range	80 MHz ... 1000 MHz
Test field strength	10 V/m
Frequency range	1000 MHz ... 6000 MHz
Test field strength	3 V/m

Fast transients (burst)

Standards/regulations	EN 61000-4-4

Fast transients (burst)

Comments	±2.2 kV

Surge current load (surge)

Standards/regulations	EN 61000-4-5

Surge current load (surge)

Signal	± 0.5 kV (symmetrical)
	± 1 kV (asymmetrical)

Conducted interference

Standards/regulations	EN 61000-4-6

Conducted interference

Frequency range	0.15 MHz ... 80 MHz
Voltage	10 V

Emitted interference

Standards/regulations	FCC/CFR 47, Part 15.107
Test result	Class B

Emitted interference

Standards/regulations	FCC/CFR 47, Part 15.109
Test result	Class A

Emitted interference

Standards/regulations	ICES-003 Issue 6 section 6.1
Test result	Class B

Emitted interference

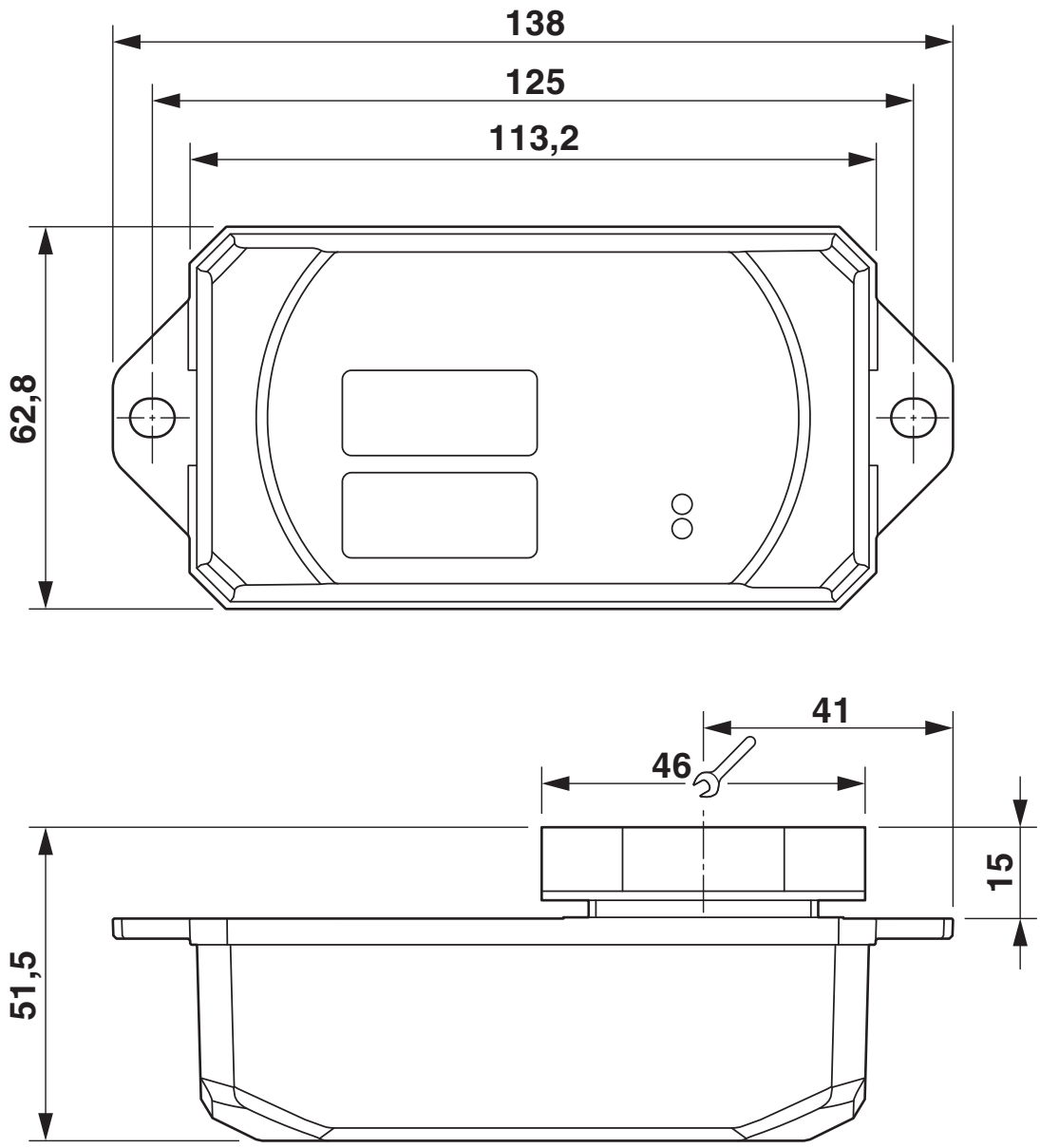
Standards/regulations	ICES-003 Issue 6 section 6.2
Test result	Class A

Mounting

Mounting type	Single-hole mounting
Assembly note	Internal antenna

Drawings

Dimensional drawing



Approvals

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cULus Listed
Approval ID: E238705

FCC
Approval ID: YG3-SXPCEAN2

cUL Listed
Approval ID: E196811

UL Listed
Approval ID: E196811

Classifications

ECLASS

ECLASS-13.0	19170501
ECLASS-15.0	19170501

ETIM

ETIM 9.0	EC000816

UNSPSC

UNSPSC 21.0	43222600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Not applicable, Not qualified for the European market

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9)
SCIP	da141222-2ba4-44eb-8d6f-9bf2fc136c5f

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