

## Wireless module - FL WLAN EPA 5N - 2700488

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WLAN Ethernet port adapter, client, WLAN 802.11 a/n, 5.15 ... 5.25 GHz frequency, IP65, connections: M12 for 9 ... 30 V DC, M12 for LAN, autocrossing, PROFINET and PROFI-safe-compatible, web-based management, 802.11i, WPA2, WPA-PSK, WEP, TKIP, AES, integrated antenna

### Your advantages

- Integrated special antenna (EPA)
- Maximum security according to IEEE 802.11i with AES encryption
- IP65 protection class



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 562416
GTIN	4046356562416
Weight per Piece (excluding packing)	240.000 g
Custom tariff number	85176200
Country of origin	Sweden

### Technical data

#### Dimensions

Width	66 mm
Height	91 mm
Depth	34 mm
Note on dimensions	Without M12 connections

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 65 °C
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## Wireless module - FL WLAN EPA 5N - 2700488

### Technical data

#### Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 90 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 90 % (non-condensing)
Air pressure (operation)	795 hPa ... 1080 hPa (up to 2000 m above sea level)
Degree of protection	IP65

#### Ethernet interface

Interface	Ethernet
Number	1
Connection method	M 12 connectors (D-coded, female)

#### Wireless interface

Designation	Wireless LAN
Wireless standard	IEEE 802.11
	a
	n
Antenna connection method	(Internal)
Frequency range	5.15 GHz ... 5.25 GHz (ISM bandwidth)
Frequency band	5 GHz
Transmission power	max. 14 dBm (EIRP)
Number of wireless interfaces	1 IEEE 802.11 a/n
Wireless modules that can be connected	1

#### Wireless card

Number	1
Assembly instructions	Permanently installed

#### Antenna

Assembly instructions	Internal circularly polarized panel antenna
Number	1
Connection method	permanently installed

#### Power supply for module electronics

Connection method	M12 connector (A-coded, male)
Supply voltage	24 V DC
Supply voltage range	9 V DC ... 30 V DC
Supply current	76 mA (at 24 V DC)
Current consumption	76 mA (at 24 V DC)

#### Functions

Operating modes	Ethernet client adapter
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#### Functions

Configuration	Web interface, MODE button, AT commands (TCP/IP), SSC
Automatic channel selection	Yes
Quality of service (QoS)	Yes
Security	802.11i
	WPA PSK (preshared key)
	WPA2 PSK
	AES
	WEP 64 bit/128 bit
	TKIP
	Supports 802.1X/RADIUS

#### Digital inputs

Number of inputs	1
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#### General

Mounting type	Wall mounting
Net weight	248.2 g
Wireless licenses	Europe, USA, Canada, additional countries in the e-shop
Wireless licences	Belgium
	Bulgaria
	Denmark
	Germany
	Estonia
	Finland
	France
	Greece
	Great Britain
	Ireland
	Iceland
	Italy
	Canada
	Latvia
	Liechtenstein
	Lithuania
	Luxembourg
	Malta
	Netherlands
	Norway

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### Technical data

#### General

	Austria
	Poland
	Portugal
	Romania
	Sweden
	Switzerland
	Slovakia
	Slovenia
	Spain
	Czech Republic
	Hungary
	USA
	Cyprus (rep.)
Mounting type	Wall mounting

#### Standards and Regulations

Protection class	III, IEC 61140, EN 61140, VDE 0140-1
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#### Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

### Classifications

#### eCl@ss

eCl@ss 4.0	27240409
eCl@ss 4.1	27240409
eCl@ss 5.0	27242215
eCl@ss 5.1	27250500
eCl@ss 6.0	19170200
eCl@ss 7.0	19170202
eCl@ss 8.0	19170202
eCl@ss 9.0	19170209

#### ETIM

ETIM 3.0	EC001423
ETIM 4.0	EC002498
ETIM 5.0	EC000817

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### Classifications

#### ETIM

ETIM 6.0	EC000817
ETIM 7.0	EC000817

#### UNSPSC

UNSPSC 6.01	20142601
UNSPSC 7.0901	20142601
UNSPSC 11	20142601
UNSPSC 12.01	20142601
UNSPSC 13.2	20142601

### Accessories

#### Accessories

#### Assembly adapter

#### Assembly adapters - FL EPA WMS - 2701134



Set for mounting devices with EPA design to wall or mast, including mast clips for a diameter of 25 - 85 mm, can be moved on two axes for optimum alignment, stainless steel

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#### Data cable preassembled

#### Bus system cable - SAC-4P-M12MSD/ 2,0-931 - 1569391



Bus system cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded, Plug straight M12, D-coded, on free cable end, cable length: 2 m

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#### Bus system cable - SAC-4P-M12MSD/ 5,0-931 - 1569401



Bus system cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded, Plug straight M12, D-coded, on free cable end, cable length: 5 m

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### Accessories

Network cable - NBC-MSD/ 1,0-93E/R4AC SCO - 1407360



Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR, water blue RAL 5021, shielded, Plug straight M12 SPEEDCON / IP67, coding: D, on Plug straight RJ45 / IP20, cable length: 1 m

Network cable - NBC-MSD/ 2,0-93E/R4AC SCO - 1407361



Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR, water blue RAL 5021, shielded, Plug straight M12 SPEEDCON / IP67, coding: D, on Plug straight RJ45 / IP20, cable length: 2 m

Network cable - NBC-MSD/ 5,0-93E/R4AC SCO - 1407362



Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR, water blue RAL 5021, shielded, Plug straight M12 SPEEDCON / IP67, coding: D, on Plug straight RJ45 / IP20, cable length: 5 m

### Data plug

RJ45 connector - VS-08-RJ45-5-Q/IP20 - 1656725



RJ45 connector, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: PA, connection method: IDC fast connection, connection cross section: AWG 26- 23, cable outlet: straight, color: traffic grey A RAL 7042

### Mounting rail adapter

DIN rail adapter - FL EPA RMS - 2701133

Set for mounting devices with EPA design on a DIN rail



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### Accessories

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#### Sensor/actuator cable

Sensor/actuator cable - SAC-4P- 1,5-PUR/M12FS - 1668108



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, A-coded, cable length: 1.5 m

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Sensor/actuator cable - SAC-4P- 3,0-PUR/M12FS - 1668111



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, A-coded, cable length: 3 m

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Sensor/actuator cable - SAC-4P- 5,0-PUR/M12FS - 1668124



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, A-coded, cable length: 5 m

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Sensor/actuator cable - SAC-4P-10,0-PUR/M12FS - 1683002



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, A-coded, cable length: 10 m

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#### Simulation software

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### Accessories

Software - FL WST BASIC DEMO - 2692377



Simulation software for supporting the planning of wireless systems in industrial environments. Their functionality is limited with regard to the memory options as compared with the full version FL WST BASIC.

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Software - FL WST BASIC - 2692254



Simulation software for supporting the planning of wireless systems in industrial environments. Thus, the later number and position of wireless components can be estimated and the quality of the radio coverage simulated.

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