

## 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

### Product Features

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



### Key commercial data

Packing unit	1 PCE
Weight per Piece (excluding packing)	179.35 GRM
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
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 90 % (no condensation)
Permissible humidity (storage/transport)	5 % ... 90 % (no condensation)
Air pressure (operation)	795 hPa ... 1080 hPa (up to 2000 m above mean sea level)
Degree of protection	IP65

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### Technical data

#### Ethernet interface

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

#### Wireless interface

Name	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)
	76 mA ((at 24 V DC, typical))

#### Functions

Operating modes	Ethernet client adapter
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)

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### Technical data

#### Functions

	WPA2 PSK
	AES
	WEP 64 bit/128 bit
	TKIP
	Supports 802.1X/RADIUS

#### Digital inputs

Number of inputs	1
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#### General

Weight	120 g
Mounting type	Wall mounting
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Conformance with EMC directives	Noise immunity test in accordance with EN 61000-6-2 EN 61000-6-4
Wireless licences	Belgium
	Bulgaria
	Denmark
	Germany
	Estonia
	Finland
	France
	Greece
	Great Britain
	Ireland
	Iceland
	Italy
	Canada
	Latvia
	Liechtenstein
	Lithuania
	Luxembourg
	Malta
	The Netherlands
	Norway
	Austria
	Poland
	Portugal
	Romania

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### Technical data

#### General

	Sweden
	Switzerland
	Slovakia
	Slovenia
	Spain
	Czech Republic
	Hungary
	USA
	Cyprus (rep.)

### Classifications

#### eCl@ss

eCl@ss 4.0	27240409
eCl@ss 4.1	27240409
eCl@ss 5.0	27242215
eCl@ss 5.1	27250501
eCl@ss 6.0	27242208
eCl@ss 7.0	27242208
eCl@ss 8.0	27242208

#### ETIM

ETIM 3.0	EC001423
ETIM 4.0	EC002498
ETIM 5.0	EC002498

#### UNSPSC

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

### Approvals

#### Approvals

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### Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

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Ex Approvals


UL Recognized / cUL Recognized / cULus Recognized


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Approvals submitted

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### Approval details

UL Listed 

cUL Listed 

cULus Listed 

### 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

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### Accessories

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



Bus system cable, Ethernet CAT5 (100 Mbps), Ethernet CAT5e (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

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



Bus system cable, Ethernet CAT5 (100 Mbps), Ethernet CAT5e (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

Network cable - VS-MSD-IP20-93E/1,0 - 1403498



Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26, stranded (7-wire), RAL 5021 (aqua blue), M12 plug to RJ45 plug/IP20, line, length 1 m

Network cable - VS-M12MS-IP20-93E-LI/2,0 - 1406056



Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 plug on RJ45 plug/IP20, line, length 2 m

Network cable - VS-MSD-IP20-93E/5,0 - 1403500



Assembled Ethernet cable, CAT5e, shielded, 2-pair, 26 AWG, stranded (7-wire), RAL 5021 (aqua blue), M12 plug to RJ45 plug/IP20, line, length 5 m

### Data plug

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### Accessories

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



RJ45 connector, IP20, CAT5e, 8-pos., with QUICKON fast connection technology, for 26 ... 23 AWG 1-wire and 7-wire conductors, for 4.5 mm ... 8.0 mm cable diameter, labeling: TIA 568 B, color: gray

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### 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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### Sensor/actuator cable

Sensor/Actuator cable - SAC-4P- 2,0-PUR/M12FS - 1533576



Sensor/Actuator cable, 4-position, PUR halogen-free, Black-gray RAL 7021, Free cable end, on Socket straight M12, A-coded, Cable length: 2 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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### Accessories

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#### Simulation software

##### 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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##### Sensor/Actuator cable - SAC-4P- 1,0-PUR/M12FS - 1400420



Sensor/Actuator cable, 4-position, PUR halogen-free, Black-gray RAL 7021, Free cable end, on Socket straight M12, A-coded, Cable length: 1 m

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