

## Wireless module - FL BT EPA 2 - 1005869

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Bluetooth/Ethernet wireless module, 2.1+EDR/4.0, PAN P2P, internal antenna, IP65, 9 V DC ... 30 V DC, M12 connection, WEB, AT-commands and mode button

### Your advantages

- Integrated antenna
- Protocol-transparent communication on Layer 2
- IP65 protection class
- Bluetooth wireless modul



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 476087
GTIN	4055626476087
Weight per Piece (excluding packing)	105.000 g
Weight per piece (including packing)	163.000 g
Custom tariff number	85176200
Country of origin	Sweden
Sales Key	M2 - Network Techn.

### Technical data

#### Dimensions

Width	67.8 mm
Height	92.7 mm
Depth	33.2 mm
Note on dimensions	Without M12 connections

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 65 °C
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## Technical data

### Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 93 % (non-condensing)
Permissible humidity (storage/transport)	non-condensing
Degree of protection	IP65

### Ethernet interface

Interface	Ethernet
Number	1
Connection method	M12 connectors (D-coded, female)
Interface	10/100 Mbps Ethernet
Number of interfaces	1
Connection method	M12 connectors (D-coded, female)
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)

### Wireless interface

Designation	Bluetooth
Antenna connection method	(Internal)
Wireless standard	Bluetooth 2.1 + EDR
Frequency range	2.402 GHz ... 2.48 GHz (Bluetooth)
Frequency band	2.4 GHz
Transmission power	max. 10 dBm
Number of wireless interfaces	1 Bluetooth 2.1+EDR, Bluetooth LE 4.0
Wireless modules that can be connected	1

### Wireless card

Number	1
Assembly instructions	Permanently installed

### Antenna

Assembly instructions	Internal antenna
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### Power supply for module electronics

Connection technology	M12 connector
Connection method	M12 connector (A-coded, male)
Supply voltage	24 V DC
Supply voltage range	9 V DC ... 30 V DC
Supply current	typ. 36 mA (at 24 V DC)
Current consumption	max. 190 mA (at 9 V DC)

### Functions

Configuration	Web interface, MODE button, AT commands (TCP/IP), SSC
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## Technical data

### Functions

Security	PIN
	Non-discoverable

### Digital inputs

Number of inputs	1
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### General

Mounting type	Wall mounting
Net weight	105 g
Wireless licenses	Europe, USA, Canada, additional countries in the e-shop
	RED (Radio Equipment Directive)
	FCC 47 CFR part 15, subpart B
Wireless licences	Belgium
	Bulgaria
	Denmark
	Germany
	Estonia
	Finland
	France
	Greece
	Great Britain
	Ireland
	Iceland
	Italy
	Canada
	Latvia
	Liechtenstein
	Lithuania
	Luxembourg
	Malta
	Netherlands
	Norway
	Austria
	Poland
	Portugal
	Romania
	Sweden
	Switzerland
	Slovakia
	Slovenia
	Spain
	Czech Republic

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## Technical data

### General

	Hungary
	USA
	Cyprus (rep.)
	Japan
Mounting type	Wall mounting

### Standards and Regulations

Mechanical tests	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 3g, 11 ms half-sine shock pulse
	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5 - 8.4 Hz= ±3.5 mm; 8.4 - 40.7 Hz = 1g; 40.7 - 57Hz= ±0.15 mm; 57 - 500 Hz= 2g
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 55022
	EN 61000-4-6

### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Classifications

### eCl@ss

eCl@ss 10.0.1	19170101
eCl@ss 11.0	19170101
eCl@ss 4.0	27240409
eCl@ss 4.1	27240409
eCl@ss 5.0	27242215
eCl@ss 5.1	27250501
eCl@ss 6.0	19170100
eCl@ss 7.0	19170101
eCl@ss 9.0	19170101

### ETIM

ETIM 2.0	EC001423
ETIM 3.0	EC001423
ETIM 4.0	EC000515
ETIM 6.0	EC000515
ETIM 7.0	EC000515

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## Classifications

### UNSPSC

UNSPSC 6.01	20142601
UNSPSC 7.0901	20142601
UNSPSC 11	20142601
UNSPSC 12.01	20142601
UNSPSC 13.2	43201404
UNSPSC 18.0	43201404
UNSPSC 19.0	43201404
UNSPSC 20.0	43201404
UNSPSC 21.0	43201404

## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / UL Listed / cUL Listed

#### Ex Approvals

UL Listed / cUL Listed / UL Listed / cUL Listed

### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
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cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
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## Accessories

### Accessories

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### 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, coding: D, 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, coding: D, on free cable end, cable length: 5 m

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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

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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

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### Accessories

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

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### 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, Ethernet

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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, coding: A, cable length: 2 m

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, coding: A, cable length: 3 m

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### Accessories

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, coding: A, 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, coding: A, cable length: 10 m

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