**PHŒNIX CONTACT**

# Wireless set - ILB BT ADIO MUX-OMNI 8/M - 2693185

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Wireless MUX set, consisting of 2 modules with 16 digital and 2 analog inputs and outputs each, omnidirectional antennas with 1.5 m cable, approvals for countries, maritime approvals DNV, GL, GL-SW

**Bluetooth**  **FC**

## Key commercial data

| | |
|---|---|
| Packing unit | 1 pc |
| GTIN | 4 046356 457262 |
| Weight per Piece (excluding packing) | 285.0 g |
| Weight per piece (including packing) | 887.3 g |
| Custom tariff number | 85176200 |
| Country of origin | Germany |
| Sales Key | O1 - Automatation Systems |
| Note | Made to Order (non-returnable) |

## Technical data

### Note

| | |
|---|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |

### Dimensions

| | |
|---|---|
| Width | 95 mm |
| Height | 119.8 mm |
| Depth | 55 mm |

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Permissible humidity (operation) | 75 % (On average, non-condensing) |
| Air pressure (operation) | 795 hPa ... 1080 hPa (up to 2000 m above mean sea level) |
| Degree of protection | IP20 |

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## Technical data

### Wireless interface

| Designation | Bluetooth |
|---|---|
| Wireless standard | Bluetooth 1.2 |
| Antenna connection method | MCX (female) |
| Frequency range | 2.402 GHz ... 2.48 GHz (ISM bandwidth) |
| Transmission power | 8 dBm (6.3 mW, controlled automatically) |
| Receiver sensitivity | -88 dBm |

### Antenna

| Assembly instructions | OMNI omnidirectional antenna, 2 dBi, Lambda/2, with fixing bracket, 1.5 m cable |
|---|---|
| Number | 1 |
| Connection method | MCX (male) |

### Power supply for module electronics

| Connection method | Inline connector |
|---|---|
| Supply voltage | 24 V DC |
| Supply voltage range | 19.2 V DC ... 30 V DC (including ripple) |
| Supply current | < 100 mA |

### Digital inputs

| Input name | Digital inputs |
|---|---|
| Connection method | Spring-cage connection |
| | 1-wire |
| Number of inputs | 16 |
| Filter time | 500 µs |
| Input characteristic curve | IEC 61131-2 type 1 |

### Digital outputs

| Output name | Digital outputs |
|---|---|
| Connection method | Spring-cage connection |
| | 1-wire |
| Number of outputs | 16 |
| Protective circuit | Short-circuit protection, overload protection, protected against reverse voltages |
| Maximum output current per channel | 500 mA |

### Analog inputs

| Number of inputs | 2 |
|---|---|
| Input name | Analog inputs |
| Measured value resolution | 12 bits |
| Current input signal | 0 mA ... 20 mA |
| Voltage input signal | 0 V ... 10 V |

### Analog outputs

| Number of outputs | 2 |
|---|---|

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## Technical data

### Analog outputs

| Output name | Analog outputs |
|---|---|
| DAC resolution | 12 Bit |
| Current output signal | 0 mA ... 20 mA |
| Voltage output signal | 0 V ... 10 V |

### General

| Net weight | 285 g |
|---|---|
| Mounting type | DIN rail |
| Protection class | III, IEC 61140, EN 61140, VDE 0140-1 |
| MTBF | 465 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) |
| | 140 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day)) |
| Mechanical tests | Shock in acc. with EN 60068-2-27/IEC 60068-2-27 25g |
| | Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g |
| Diagnostics messages | Short-circuit / overload of the digital outputs LED |
| | Wireless connection FS LED |
| | Logic and actuator voltage LED |
| | Link quality of the wireless connection 4 LEDs |
| Wireless licences | Australia (Special rule: Please contact the Product Manager) |
| | Belgium |
| | Bulgaria |
| | Denmark |
| | Germany |
| | Estonia |
| | Finland |
| | France |
| | Greece |
| | Great Britain |
| | Ireland |
| | Iceland |
| | Italy |
| | Canada |
| | Latvia |
| | Liechtenstein |
| | Lithuania |
| | Luxembourg |
| | Malta |
| | Netherlands |
| | Norway |
| | Austria |
| | Poland |

# Wireless set - ILB BT ADIO MUX-OMNI 8/M - 2693185

## Technical data

### General

| | Portugal |
|---|---|
| | Romania |
| | Sweden |
| | Switzerland |
| | Slovakia |
| | Slovenia |
| | Spain |
| | Czech Republic |
| | Hungary |
| | USA |
| | Cyprus (rep.) |

## Classifications

### eCl@ss

| eCl@ss 4.0 | 27240404 |
|---|---|
| eCl@ss 4.1 | 27240404 |
| eCl@ss 5.0 | 27242204 |
| eCl@ss 5.1 | 27242604 |
| eCl@ss 6.0 | 27242602 |
| eCl@ss 7.0 | 27242602 |

### ETIM

| ETIM 3.0 | EC001599 |
|---|---|
| ETIM 4.0 | EC001599 |
| ETIM 5.0 | EC001599 |

### 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

LR / GL / DNV / GL-SW / BV / GL

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# Wireless set - ILB BT ADIO MUX-OMNI 8/M - 2693185

## Approvals

Ex Approvals

Approvals submitted

## Approval details

| LR |
| --- |

| GL |
| --- |

| DNV |
| --- |

| GL-SW |
| --- |

| BV |
| --- |

| GL |
| --- |

## Accessories

Accessories

End block

End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



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.

### 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.

## Terminal marking

### Insert strip - ESL 62X10 - 0809492

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 10 mm

### Flat zack marker sheet - ZBFM 6/WH:UNBEDRUCKT - 0803618

Flat zack marker sheet, Sheet, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 6.2 mm, Lettering field: 5 x 5.5 mm