

ILB BT ADIO MUX-PANEL - Wireless set



2884509

<https://www.phoenixcontact.com/us/products/2884509>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Wireless-MUX set, two modules with 16 digital inputs and outputs and 2 analog inputs and outputs (4 - 20 mA, 0 - 10 V) each, panel antennas with 1.0 m cable, 24 V DC supply voltage

Your advantages

- Transmission time ≥ 10 ms
- Range of up to 400 m outdoors
- Wireless diagnostics by means of bar graph
- Plug and play - startup without configuration
- It couldn't be simpler: unpack – connect – switch on

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2884509 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DN26 |
| Product key | DNC662 |
| GTIN | 4046356049696 |
| Weight per piece (including packing) | 1,083.9 g |
| Weight per piece (excluding packing) | 1,014.9 g |
| Customs tariff number | 85176200 |
| Country of origin | DE |

Technical data

Notes

Utilization restriction

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

Product properties

| | |
|----------------------|----------------------------------------------------------------------------------------------------------|
| Product type | Multiplexer |
| Product family | Inline |
| Type | Block design |
| 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)) |
| Diagnostics messages | Short-circuit or overload of the digital outputs LED |
| | Wireless connection FS LED |
| | Logic and actuator voltage LED |
| | Link quality of the wireless connection 4 LEDs |

Electrical properties

| | |
|-------------------------------------------------|-------|
| Maximum power dissipation for nominal condition | 2.4 W |
|-------------------------------------------------|-------|

Supply: 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 |

Input data

Analog:

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

Digital:

| | |
|--------------------------|------------------------|
| Input name | Digital inputs |
| Description of the input | IEC 61131-2 type 1 |
| Number of inputs | 16 |
| | 16 |
| Connection method | Spring-cage connection |

ILB BT ADIO MUX-PANEL - Wireless set



2884509

<https://www.phoenixcontact.com/us/products/2884509>

| | |
|-----------------------|-------------|
| Connection technology | 1-conductor |
| Filter time | 500 µs |

Output data

Analog:

| | |
|-----------------------|----------------|
| Output name | Analog outputs |
| Number of outputs | 2 |
| DAC resolution | 12 bit |
| Current output signal | 0 mA ... 20 mA |
| Voltage output signal | 0 V ... 10 V |

Digital:

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

Interfaces

Antenna

| | |
|-------------------|------------|
| Number | 1 |
| Connection method | MCX (male) |

Functions

| | |
|-------------------|--------------------------------------------------------------|
| Wireless licenses | Europe, additional countries in the e-shop |
| Country support | Australia (Special rule: Please contact the Product Manager) |
| | Belgium |
| | Bulgaria |
| | Denmark |
| | Germany |
| | Estonia |
| | Finland |
| | France |
| | Greece |
| | Great Britain |
| | Ireland |
| | Iceland |
| | Israel |
| | Italy |
| | Canada |
| | Latvia |
| Liechtenstein | |

ILB BT ADIO MUX-PANEL - Wireless set



2884509

<https://www.phoenixcontact.com/us/products/2884509>

| | |
|--|-----------------------------------------------------------|
| | Lithuania |
| | Luxembourg |
| | Malta |
| | Netherlands |
| | Norway |
| | Austria |
| | Poland |
| | Portugal |
| | Romania |
| | Russia (Special rule: Please contact the Product Manager) |
| | Sweden |
| | Switzerland |
| | Singapore |
| | Slovakia |
| | Slovenia |
| | Spain |
| | South Africa |
| | Czech Republic |
| | Turkey |
| | Hungary |
| | USA |
| | Cyprus (rep.) |

Wireless

| | |
|---------------------------|----------------------------------------|
| Designation | Bluetooth |
| Antenna connection method | MCX (female) |
| Frequency range | 2.402 GHz ... 2.48 GHz (ISM bandwidth) |
| Wireless standard | Bluetooth 1.2 |
| Transmission power | 8 dBm (8 dBm, with automatic control) |
| Receiver sensitivity | -88.00 dBm |

Signaling

Diagnostic messages

| | |
|-------------|--------------------------------------------------|
| Diagnostics | Short-circuit or overload of the digital outputs |
| Message | LED |

Diagnostic messages

| | |
|-------------|---------------------|
| Diagnostics | Wireless connection |
| Message | FS LED |

Diagnostic messages

| | |
|-------------|----------------------------|
| Diagnostics | Logic and actuator voltage |
| Message | LED |

Diagnostic messages

ILB BT ADIO MUX-PANEL - Wireless set



2884509

<https://www.phoenixcontact.com/us/products/2884509>

| | |
|-------------|-----------------------------------------|
| Diagnostics | Link quality of the wireless connection |
| Message | 4 LEDs |

Dimensions

| | |
|--------|----------|
| Width | 95 mm |
| Height | 119.8 mm |
| Depth | 57 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|------------------------------------------|-----------------------------------------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Air pressure (operation) | 795 hPa ... 1080 hPa (up to 2000 m above sea level) |
| Permissible humidity (operation) | 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 95 % |

Mechanical test

| | |
|--------------------------------------------------------------------|-----|
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27 | 25g |
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | 5g |

Standards and regulations

| | |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

Mounting

| | |
|---------------|---------------------------------------------------------------------------|
| Mounting type | DIN rail mounting |
| | DIN rail mounting |
| Assembly note | PANEL directional wireless antenna, 8 dBi, with fixing bracket, 1 m cable |

ILB BT ADIO MUX-PANEL - Wireless set



2884509

<https://www.phoenixcontact.com/us/products/2884509>

Environmental product compliance

China RoHS

| | |
|----------------------------------------|------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com