

## BLUambas® PROFINET

### Function

The wireless system **BLUambas®** provides wireless data transmission in the fieldbus system PROFINET. Herewith mobile plant components or machines can be integrated simply into the system communication. For this reason BLUambas® is the perfect alternative for slip rings and trailing cables but without mechanic wear. As seen from the perspective of the controller the wireless system acts like a cable.

### Instructions for use

PROFINET Wireless provides for all update rates starting with 1 ms. To build up a wireless PROFINET system one BLUambas® controller module and at least one BLUambas® I/O module are required. The maximum number of I/O modules and PROFINET I/O devices depends on the BLUambas® types. Each BLUambas® PROFINET module can be configured as a controller module as well as an I/O module.

BLUambas® is available with protection class IP20 or IP65 and can be freely selected within a radio link.

### Variants

#### BLUambas® PROFINET Classic

A PROFINET radio link can be established between a controller module and a maximum of one I/O module. A maximum of four PROFINET I/O devices can be installed behind the radio link.

#### BLUambas® PROFINET Comfort

A PROFINET radio link can be established between a controller module and a maximum of four I/O modules. A maximum of six PROFINET I/O devices can be installed behind the radio link.

#### BLUambas® PROFINET Premium

A PROFINET radio link can be established between a controller module and maximum four I/O modules. A maximum of six PROFINET I/O devices can be installed behind the radio link. In addition, PROFIsafe communication is transmitted.

### Technical data

#### BLUambas® PROFINET:

- Transmission standard: IEEE 802.15.1 (Bluetooth)
- Transmission frequency: 2,4-2,4835 GHz
- Range indoor: 100m (depending on antenna)
- Range outdoor: 300m (depending on antenna)
- Antenna connection: SMA socket
- PN refresh rate: ≥1ms
- Temperature range: -20°C to 60°C
- Protocols: Ethernet 100 MBit

#### Version protection class IP 20:

- Installation: Top-hat rail
- Housing (H x W x D): 105 x 23 x 125 mm
- Voltage supply: 24 V DC, 2 W, terminal
- PROFINET interface: 2 x RJ45

#### Version protection class IP 65:

- Installation: 4 holes screw fastening
- Housing (H x W x D): 121 x 88 x 42 mm
- Voltage supply: 24 V DC, 2 W, M12 A coding
- PROFINET interface: M12 D coding



BLUambas® PROFINET IP20



BLUambas® PROFINET IP65

Ordering details	Art. No.
BLUambas® PN Classic controller/I/O module IP20	125100200
BLUambas® PN Classic controller/I/O module IP65	125100201
BLUambas® PN Comfort controller/I/O module IP20	125100202
BLUambas® PN Comfort controller/I/O module IP65	125100203
BLUambas® PN Premium controller/I/O module IP20	125100204
BLUambas® PN Premium controller/I/O module IP65	125100205

#### Accessories

Rod antenna	125100015
Dome antenna	125100032

Other antennas on request!