

RoProxCon

## Contactless Data and Power Transmission

MEDICAL & INDUSTRIES





## Contactless Connectivity

# RoProxCon – Contactless Data and Power Transmission

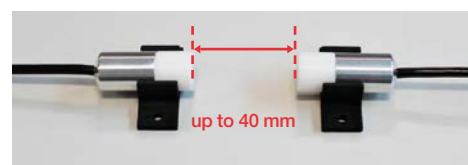
RoProxCon is an innovative connection system which can be applied to create contactless connections over a short distance. The data transmission at the RoProxCon is based on radio transmission at a carrier frequency of 60 GHz. Due to this frequency in the mm wave range high data rates can be achieved without complex modulation effort in the transmitter and receiver. The application of RoProxCon contactless system is suitable when conventional connectivity solutions reach their limits – e.g. due to movement, rotation or lifetime.

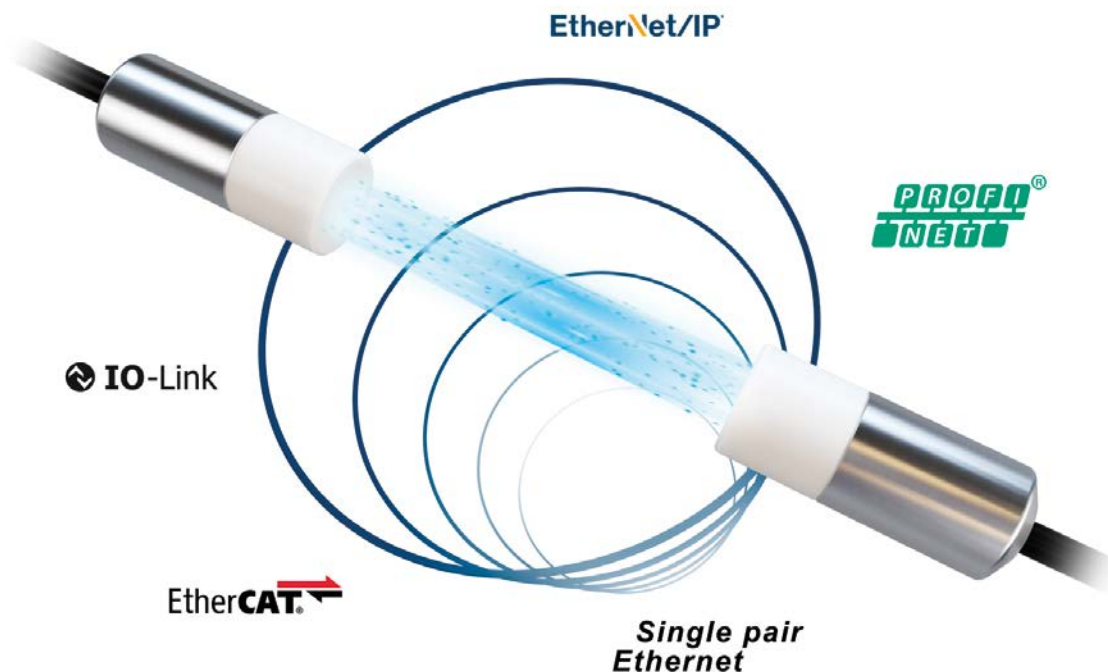
A high number of electromechanical systems used in industrial plants are being connected to one another. Cable assemblies and connector contacts are often under considerable stress, causing cables to deteriorate or even break, and overused connector contacts to fail, resulting in machine downtime.

The advantage of contactless transmission is that inflexible electromechanical couplings are no longer required while the radio technology offers a high degree of additional flexibility.

### RoProxCon – Product Features

- Full duplex data transmission in real time
- Radio transmission at a carrier frequency of 60 GHz
- Transmission up to 6 Gbps
- Hermetically sealed housings
- Transmission despite rotation





## RoProxCon Portfolio

### Advantages

- Freedom of movement due to mechanical decoupling
- Tolerance of up to 45° angular deviations
- Distances up to 40 mm
- Extremely robust, low maintenance, no wear and tear
- Unlimited mating cycles
- Protocol independence
- Transmission through a wide variety of materials
- Independent interface – mechanical compatibility not necessary

### Product Portfolio

- Data transmission
  - Transmitter – Receiver: Distances up to 40 mm
  - angular deviation up to 45°
  - Cable connectors
  - Adaptors half / full-duplex
- Hybrid connectors full-duplex
- Power transmission connectors



### Protocols – Basis for Electronic Data Transmission

RoProxCon enables data transmission in full duplex mode of up to 6 Gbps regardless of the protocol used. Real-time capability is guaranteed, use in time-critical applications, e. g. in industrial automation technology, is possible without restrictions.

- 10 / 100 / 1000BASE-T1
- EtherNetIP
- PROFINET
- EtherCAT
- and others

### Applications

- Smart factory
- Medical technology
- Safety
- Connected devices
- Intelligent home
- Office equipment
- Conveyor technology
- Renewable energies



## Website

For more information refer to our website:  
[www.rosenberger.com/contactless](http://www.rosenberger.com/contactless)

## **Rosenberger**

Rosenberger Hochfrequenztechnik GmbH & Co. KG

Hauptstraße 1 | 83413 Fridolfing

P.O. Box 1260 | 84526 Tittmoning

Germany

Phone +49 8684 18-0

[info@rosenberger.com](mailto:info@rosenberger.com)

[www.rosenberger.com](http://www.rosenberger.com)

Certified by IATF 16949 · DIN EN 9100 · ISO 9001 · ISO 14001 · ISO 50001

Order No.

pA 514223 · Info4RoProxConFlyerEN  
500/2021

Rosenberger® is a registered trademark by Rosenberger Hochfrequenztechnik GmbH & Co. KG.  
All rights reserved.

© Rosenberger 2021