

# CO250CAN CONTACTLESS POWER & DATA

EXPERIENCE A WEAR-FREE SLIP RING CONNECTOR



*Co250CAN is a contactless connector providing power and data transmission without physical contact over an air gap. The connector rotates a full 360° making it ideal for high reliability rotary applications requiring unlimited mating cycles and a hybrid signal transfer.*

## UNLIMITED 360° ROTATIVE

Circular architecture allows 360° continuous rotation, enabling dynamic applications without cable torsion, tangling or degradation — ideal for rotating platforms and robotics.

## RELIABLE HYBRID TRANSMISSION

Simultaneously delivers 250W of power and 1 Mbps of data transmission through unique contactless interface, ensuring streamlined integration for complex systems through non-conductive materials such as oil, gas and polymer.

## MAINTENANCE FREE OPERATION

No wear, corrosion and contamination. The fully sealed design ensures enhanced durability and safety, making it ideal for demanding applications in harsh environments.

## FEATURES & BENEFITS

- 250W continuous power
- 1 Mbps bidirectional data
- 15 mm max. air gap
- ±5 mm misalignment
- 360° unlimited rotation

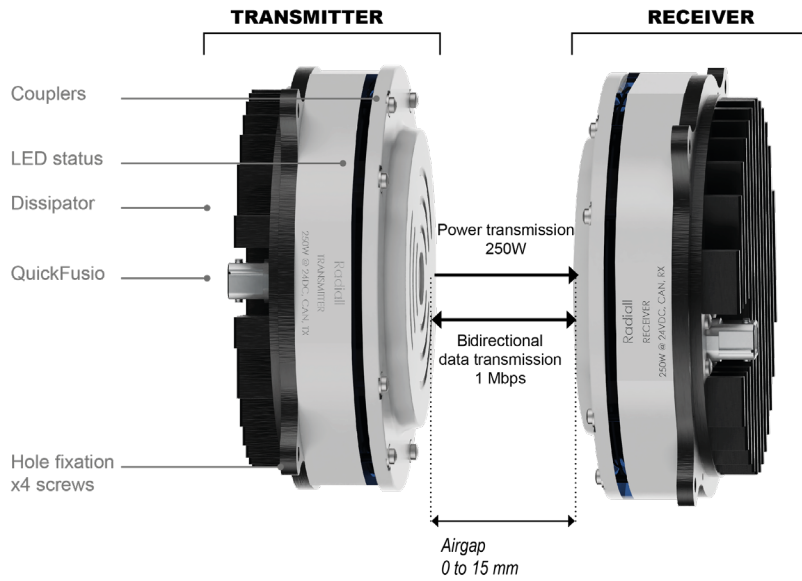
## APPLICATIONS

- Industrial automation
- Radar systems
- Medical robots
- Pipeline inspection
- Rotative system



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Discover the future of connectivity with Radiall's contactless connectors. The Co250CAN provides power and bidirectional data transmission and offers an alternative to traditional slip ring limited with a full 360° rotation unlimited.



## GENERAL SPECIFICATIONS

|                          |                                                |                                             |
|--------------------------|------------------------------------------------|---------------------------------------------|
| PART NUMBER              | MU347620232400                                 |                                             |
| TECHNOLOGY               | Inductive Couplers                             |                                             |
| TRANSMISSION             | Hybrid – Power & Data                          |                                             |
| OUTPUT POWER             | 250W                                           |                                             |
| DATA RATE                | 1 Mbps – Bidirectional                         |                                             |
| PROTOCOL                 | CAN                                            |                                             |
| DISTANCE OF TRANSMISSION | 0 to 15 mm                                     |                                             |
| MISALIGNEMENT            | ±5 mm                                          |                                             |
| OPERATING INDICATION     | LED Status                                     |                                             |
| CONNECTOR PINNING        | Transmitter TX<br>QUICKFUSIO<br>QFP5RN1E22PYBA | Receiver RX<br>QUICKFUSIO<br>QFP5RN1E22PYBA |

## ELECTRICAL SPECIFICATIONS

|                     |        |                                          |
|---------------------|--------|------------------------------------------|
| INPUT VOLTAGE (TX)  | 24 VDC | ±10%                                     |
| OUTPUT VOLTAGE (RX) | 24 VDC | ±5%                                      |
| INPUT CURRENT       | 12.5 A | @ Output Power = 250W, Z=15 mm, X:Y=5 mm |

## MECHANICAL SPECIFICATIONS <sup>[1]</sup>

|                  |                                                         |
|------------------|---------------------------------------------------------|
| SIZE             | Ø185 x 59.5 mm                                          |
| HOUSING MATERIAL | Aluminum Alloy with Black Anodizing Finish<br>White PET |

## ENVIRONMENTAL SPECIFICATIONS

|                       |                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| OPERATING TEMPERATURE | -40 to 70 °C                                                                                                                              |
| STORAGE TEMPERATURE   | -40 to 85 °C                                                                                                                              |
| INGRESS PROTECTION    | IP67                                                                                                                                      |
| PROTECTIONS           | Reverse Polarity Protection (Tx)<br>Short-Circuit Protection of the Power (Tx & Rx)<br>Short-Circuit Protection for Data Output (Tx & Rx) |

### Note

1. Mechanical specification for Tx and Rx are the same