

## Typical Applications

- Zero friction, light weight torque measurement
- Slip-ring replacement
- Interchangeable sensors
- Connections in corrosive environments
- Connections to sterilised environments
- Connections in contaminated/controlled environments
- Non contact measurement sensors
- Connections in hazardous environments
- Rotational alignment sensors

# WiPES<sup>®</sup> Pinless Connector

## Transfers power and data without contact

By removing the pins from the connector, WiPES (Wireless Integrated Power Electronics System) opens up possibilities for your products and applications. For applications where connections are difficult with conventional connectors, where the connection is made through an existing hermetic barrier or where one side of the connector is rotating for example, WiPES may be the perfect solution. Also, traditional axial mating methods need no longer be a constraint. With no exposed metal, pin wear or contamination is no longer a risk, and the connectors can be completely encapsulated.

## Features

- Power and/or data transfer
- No contacts
- No direct physical contact required
- Non-axial mating possible
- Tolerant to misalignment
- Insensitive to angular position or rotation
- Single- or multi-channel
- Zero insertion force
- Full encapsulation possible

Barrier materials between the parts may include air, plastic, rubber, fabric, in fact anything non-metallic.



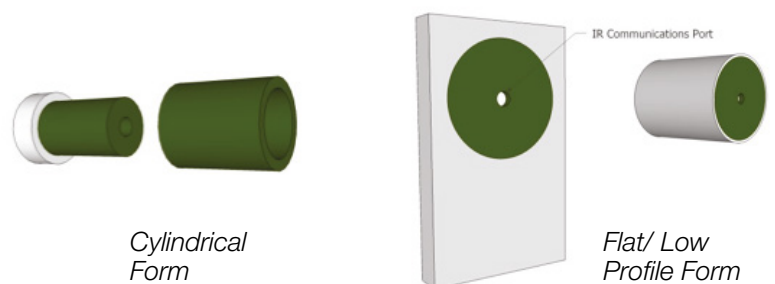
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## WiPES Communication

- For low power (<100mW) application
- Up to 10kbps
- Tolerant to misalignment
- Tolerant to non-transparent barriers
- Low distance for noise immunity

Other standard methods of wireless communication may be incorporated with the WiPES Connector System.

## Examples of Physical Form



## Performance Details

Max power transfer	Up to 5,000mW
Input voltage (transmitter)	6v to 25v
Output voltage (receiver)	3v to 20v
Data Rate	Up to 115kbps with IRDA channel
	Up to 10kbps – WiPES

## Typical Dimensions

Cylindrical transmitter	32mm dia x 48mm
Cylindrical receiver	32mm dia x 20mm
Flat/low profile form	30mm x 50mm x 8mm

Martec can also supply other forms to meet your specific requirements.

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