Where traditional connectivity reaches its limits due to space restrictions, vibrations, dust and dirt, contactless connectivity can provide highest design flexibility and help reduce maintenance and installation efforts. ARISO Contactless Connectivity can replace complex and expensive harness constructions and slip rings – enabling connectivity where connections were not possible before. With ARISO Contactless Connectivity, issues typically affecting connectivity in harsh environments, such as water, dust or vibrations, will no longer impact the reliable delivery of power, data and signal.

Benefits

- Freedom of movement that includes tilt, angle and misalignment
- Rotational freedom that enables faster rotation with more than 360°
- Design flexibility and cost savings by transfer of power and signal through fluids and walls
- Unlimited mating cycles in wet & dusty environments for reduced maintenance costs
- Easy, on-the-fly connections – e.g. connecting remote IOs or sensors on moving machine parts
- Safe & reliable connections in harsh environments through vibration resistance and fully sealed couplers
Contactless Connectivity – A Definition

A hybrid interconnection system, based on both contactless power and contactless data technology, which can easily connect over a short distance without physical contact.

Applications

Robotics and Tool Changing

But also in all applications ...
... where traditional connectors reach their limit, e.g. due to mating cycles or harsh environments
... where slip rings or spring cables reach their limit, e.g. for a maintenance-free, high speed rotation
... that are completely new, e.g. like connections through walls and materials

<table>
<thead>
<tr>
<th>PN</th>
<th>Description</th>
<th>Power level</th>
<th>Number of Outputs – Connector</th>
<th>Size (w/o Cable)</th>
<th>Operational freedom</th>
<th>Specifications</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>2287598-1</td>
<td>ARISO TxM030S012PNP2a; Transmitter, 12W, 2PNP</td>
<td>12 Watt - Operating voltage: 24V DC - Output current: 500mA</td>
<td>2 PNP Signals – M12, male a-coded, 4 pos.</td>
<td>M30 x 80 mm</td>
<td>Air Gap: max. 7 mm Mis-alignment: max. 5 mm Angle: max. 30°C</td>
<td>• IP67 • Ambient temp.: -20°C to 55°C • Storage temp.: -25°C - 100°C • Housing material: Ni-Plated Brass • Switching frequency f: 500 Hz • CE, RoHS</td>
<td>• Power input reverse polarity protection • Power output short circuit protection/ Data output short circuit protection • Data input/output reverse polarity protection • Over-temperature protection • Foreign Object Protection • Dynamic Pairing • In operating range/ Status OK Indication (12 Pos. versions)</td>
</tr>
<tr>
<td>2287598-2</td>
<td>ARISO RxM030S012PNP2a; Receiver, 12W, 2PNP</td>
<td>2 PNP Signals – M12, female a-coded, 4 pos.</td>
<td>M30 x 80 mm</td>
<td>2287598-3</td>
<td>ARISO TxM030S012PNP8a; Transmitter, 12W, 8PNP</td>
<td>8 PNP Signals, M12, male, 12 pos</td>
<td>M50 x 80 mm</td>
</tr>
<tr>
<td>2287598-4</td>
<td>ARISO RxM030S012PNP8a; Receiver, 12W, 8PNP</td>
<td>8 PNP Signals, M12, female, 12 pos Pinning option 1. For details please check the data sheet.</td>
<td>M50 x 80 mm</td>
<td></td>
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</tr>
<tr>
<td>2287598-5</td>
<td>ARISO RxM030S012PNP8b; Receiver, 12W, 8PNP</td>
<td>8 PNP Signals, M12, female, 12 pos Pinning option 2. For details please check the data sheet.</td>
<td>M50 x 80 mm</td>
<td></td>
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</tbody>
</table>

Additional variants incl. power & data and form factor upon request