



ARISO CONTACTLESS CONNECTIVITY

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



Design flexibility and cost savings by transfer of power and signal through fluids and walls



Easy, on-the-fly connections - e.g. connecting remote IOs or sensors on moving machine parts



Rotational freedom that enables faster rotation with more than 360°



Unlimited mating cycles in wet & dusty environments for reduced maintenance costs



Safe & reliable connections in harsh environments through vibration resistance and fully sealed couplers





Contactless Connectivity - A Definition

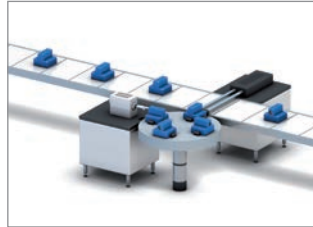
A hybrid interconnection system, based on both contactless power and contactless data technology, which can easily connect over a short distance without physical contact.



Applications



Robotics
and Tool Changing



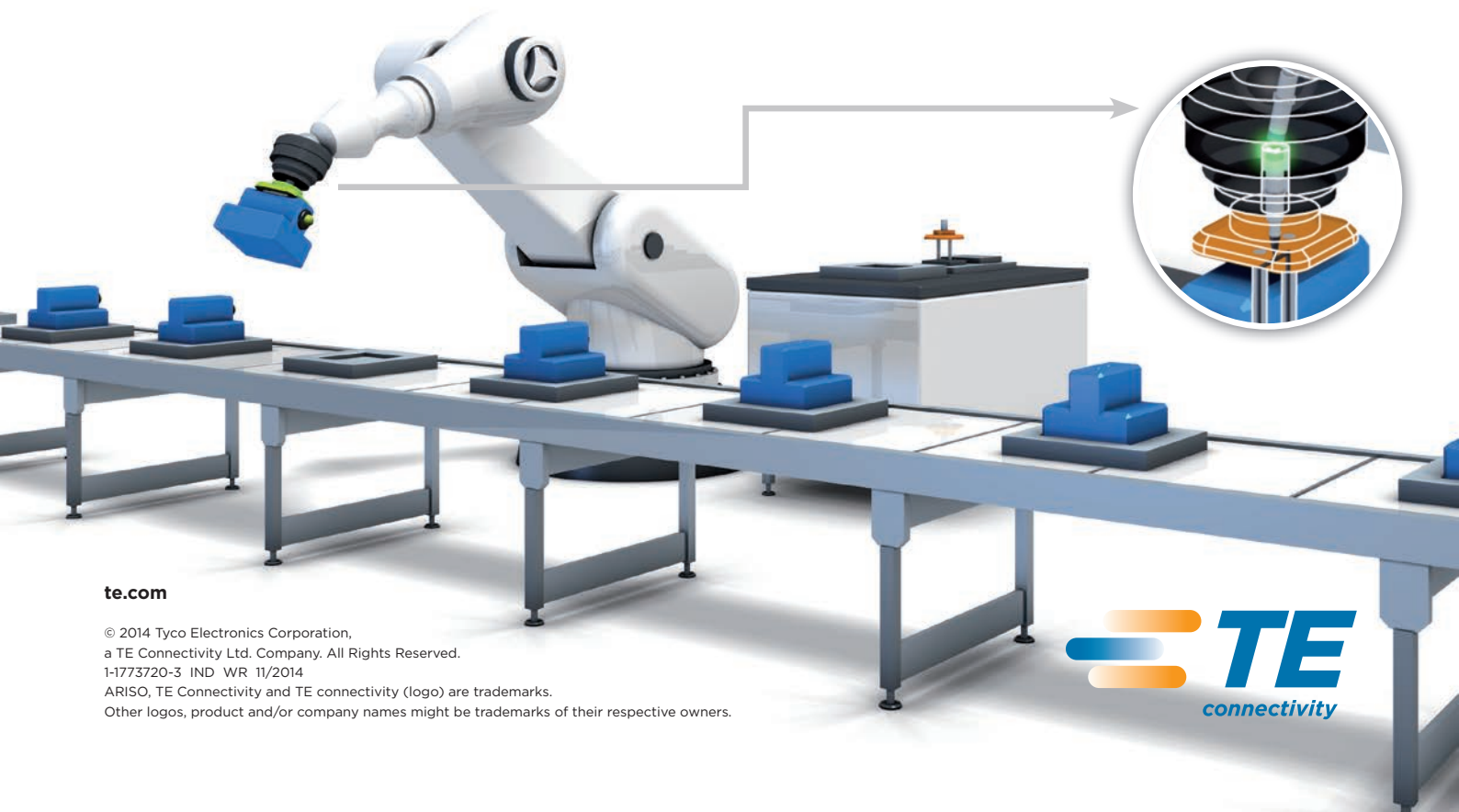
Rotary Tables
and Material Handling

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

PN	Description	Power level	Number of Outputs - Connector	Size (w/o Cable)	Operational freedom	Specifications	Features
2287598-1	ARISO TxM030S012PNP2a; Transmitter, 12 W, 2 PNP	12 Watt - Operating voltage: 24 VDC - Output current: 500 mA	2 PNP Signals - M12, male a-coded, 4 pos.	M30x80 mm	<p>Air Gap: max. 7 mm Mis-alignment: max. 5 mm Angle: max. 30°C</p>	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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)
2287598-2	ARISO RxM030S012PNP2a; Receiver, 12 W, 2 PNP		2 PNP Signals - M12, female a-coded, 4 pos.	M30x80 mm			
2287598-3	ARISO TxM030S012PNP8a; Transmitter, 12 W, 8 PNP	8 PNP Signals, M12, male, 12 pos	M30x80 mm				
2287598-4	ARISO RxM030S012PNP8a; Receiver, 12 W, 8 PNP	8 PNP Signals, M12, female, 12 pos Pinning option 1. For details please check the data sheet.	M30x80 mm				
2287598-5	ARISO RxM030S012PNP8b; Receiver, 12 W, 8 PNP	8 PNP Signals, M12, female, 12 pos Pinning option 2. For details please check the data sheet.	M30x80 mm				

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



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