

PRESS RELEASE 02/14

Inductive Couplers

Turck's new NIC series transfers data and up to 12 Watts of power without contact

Mülheim, March 13, 2014 – At the Hannover Messe Turck is presenting for the first time its contactless inductive couplers for signal and power transmission. The inductive couplers of the NIC series consist of a primary and a secondary unit and can be connected as simply as a plug connection. They transmit 12 Watts of power across a 7 millimeter air interface. The diagnostic function detects the presence of the secondary unit as well as any metal objects in the air gap. With a tolerated angle offset up to 15 degrees and a parallel offset up to 5 millimeters, the couplers can also be fitted in restricted and non-standard mounting locations.

The standard version of the NIC series transfers two PNP switch signals. If the primary unit is connected to an IO-Link master, data can also be transferred bidirectionally from measuring IO-Link sensors. In combination with Turck's TBIL I/O-Hub it is even possible to identify tool changers, since the junction boxes can transfer their ID to the controller via IO-Link. The combination of Turck's second primary unit that even works as an IO-Link master and the TBIL junction enables the transfer of up to eight switch signals.

As a “non-contact connector” the new product series is an ideal solution for the wear problems occurring with plug and wiper contacts subject to severe stress. Typical application areas are electric monorail systems, tool changers or rollers. As the secondary unit is operational within 10 milliseconds, and “dynamic pairing”, i.e. the coupling of any primary and secondary sections, is supported, it is perfectly suited for applications with a high cycle rate such as tool changer robots or rotary indexing tables.



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Turck's inductive couplers transfer data and power also with angle and parallel offsets

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