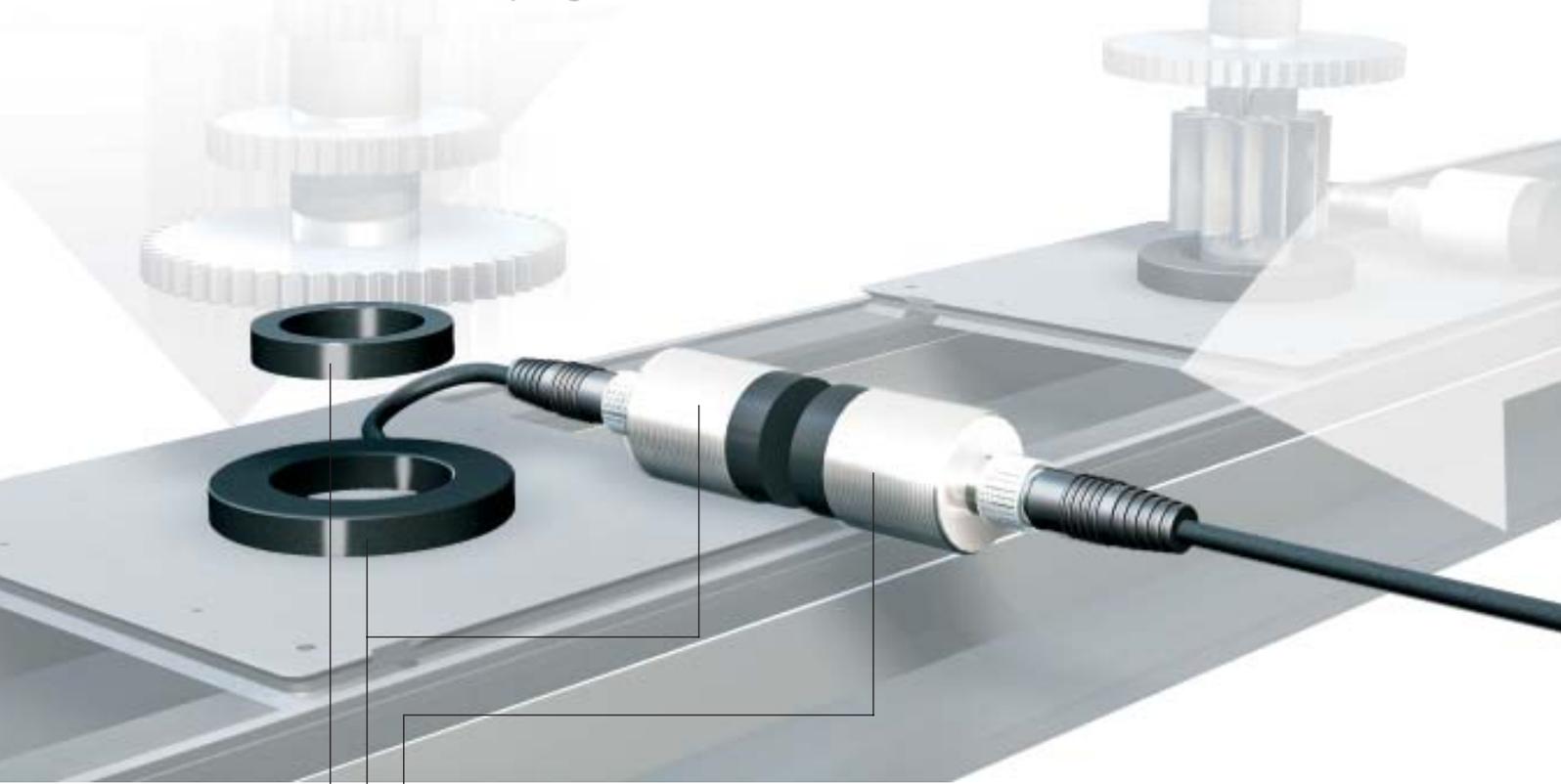


Data Couplers BIS
... Extended Data Coupling





Read/write head
Data coupler
Data carrier

Data couplers for Balluff Industrial RFID systems

When it comes to inductive, non-contacting data transmission for automatic part identification, the question of distance from data carrier to read/write head is always of central importance. Here physical conditions often make it necessary to maintain certain maximum distances. Depending on the system used, this may be a matter of just a few millimeters or centimeters.

And depending on the part geometry, bringing a read/write head up close to the data carrier may be difficult or even impossible to realize. In such cases the data coupler from Balluff serves like an extension cable. As part of the part carrier, this allows an interface to be created in a position which is more accessible to the

read/write head. The same applies in complicated workpiece clamps or when retrofitting existing equipment there is insufficient space for accommodating all the components.

A special challenge is present when overcoming double mechanical interfaces, such as in rotary indexing tables. Here you find in addition to the interface between the part and the part holder an additional one between the rotary table and the machine bed. In place of complex, fixed data and power transmission, the data couplers allow non-contacting bridging of both interfaces in the part holders on the rotary table. The read/write head and the processor are then located stationary in the machine bed. The requirements are similar when turning or sliding devices in part holders allow additional rotational or linear motion.

Data couplers eliminated connectors and increase flexibility even in interchangeable workpiece holders, robot grippers etc.

Especially in hybrid production or assembly lines, greater distances between the manually handled parts and the fixed read/write heads are an

automatic consequence. In addition, part holders with swivels or slides are often encountered in such manual process areas. But whatever your reason for needing a greater distance, data couplers from Balluff are practical ways to extend the distance.

See additional Identification Systems in the main catalog, on CD-ROM, DVD-ROM or online!



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