

## Wear-free, non-contact power transfer

# INDUCTIVE COUPLER FOR RELIABLE TRANSMISSION OF ENERGY

Many applications require high energy transmission without contact. The Balluff BIC inductive coupler is an optimal choice to achieve this, as it transmits electrical power of up to 120 W from the stationary unit (base) via an air gap to the mobile unit (remote). The transmission distances between base and remote can be up to 4 mm, with a permissible axial offset of  $\leq 4$  mm.

The BIC system has an internal temperature monitoring functionality to protect the inductive coupler from overheating. After triggering the temperature monitoring, the automatic restart returns power as soon as the system has cooled down. In the event of a short circuit or overcurrent, the energy transfer is switched off at the base unit. The restart will start automatically when the interference has been eliminated. To visualize the operating state, an LED display is integrated at the base side.

### Features

- High-level power transfer (up to max. 120 W)
- No mechanical wear
- Completely maintenance-free
- IP67 – suitable for harsh environments
- Internal temperature monitoring
- Visualization of the operating status at the base unit



## INDUCTIVE COUPLERS FOR POWER SUPPLY



	BIC0073	BIC0074	BIC0075	BIC0076
Function	Power only	Power only	Power only	Power only
Transmission distance	0...4 mm	0...4 mm	0...4 mm	0...4 mm
Component	Base	Remote	Base	Remote
Connection	Connector, 7/8", 5-pole	Connector, 7/8", 5-pole	Connector, 7/8", 4-pole	Connector, 7/8", 4-pole
Operating voltage	24 V DC	24 V DC	24 V DC	24 V DC
Output current		5 A		5 A
Housing material	Aluminum, black anodized	Aluminum, black anodized	Aluminum, black anodized	Aluminum, black anodized
Dimension	120 x 45 x 120 mm	120 x 45 x 120 mm	120 x 45 x 120 mm	120 x 45 x 120 mm
Ambient temperature	-10...50 °C	-10...50 °C	-10...50 °C	-10...50 °C
IP rating	IP67	IP67	IP67	IP67

## CONNECTIVITY



	BCC06HE	BCC06FP	BCC0A8E	BCC0A8U
Connection 1	7/8" female, straight, 5-pole	7/8" female, straight, 5-pole	7/8" female, straight, 4-pole	7/8" female, straight, 4-pole
Connection 2		7/8" male, straight, 5-pole		7/8" male, straight, 4-pole
Cable	PUR, 5.00 m	PUR, 5.00 m	PUR, 5.00 m	PUR, 5.00 m