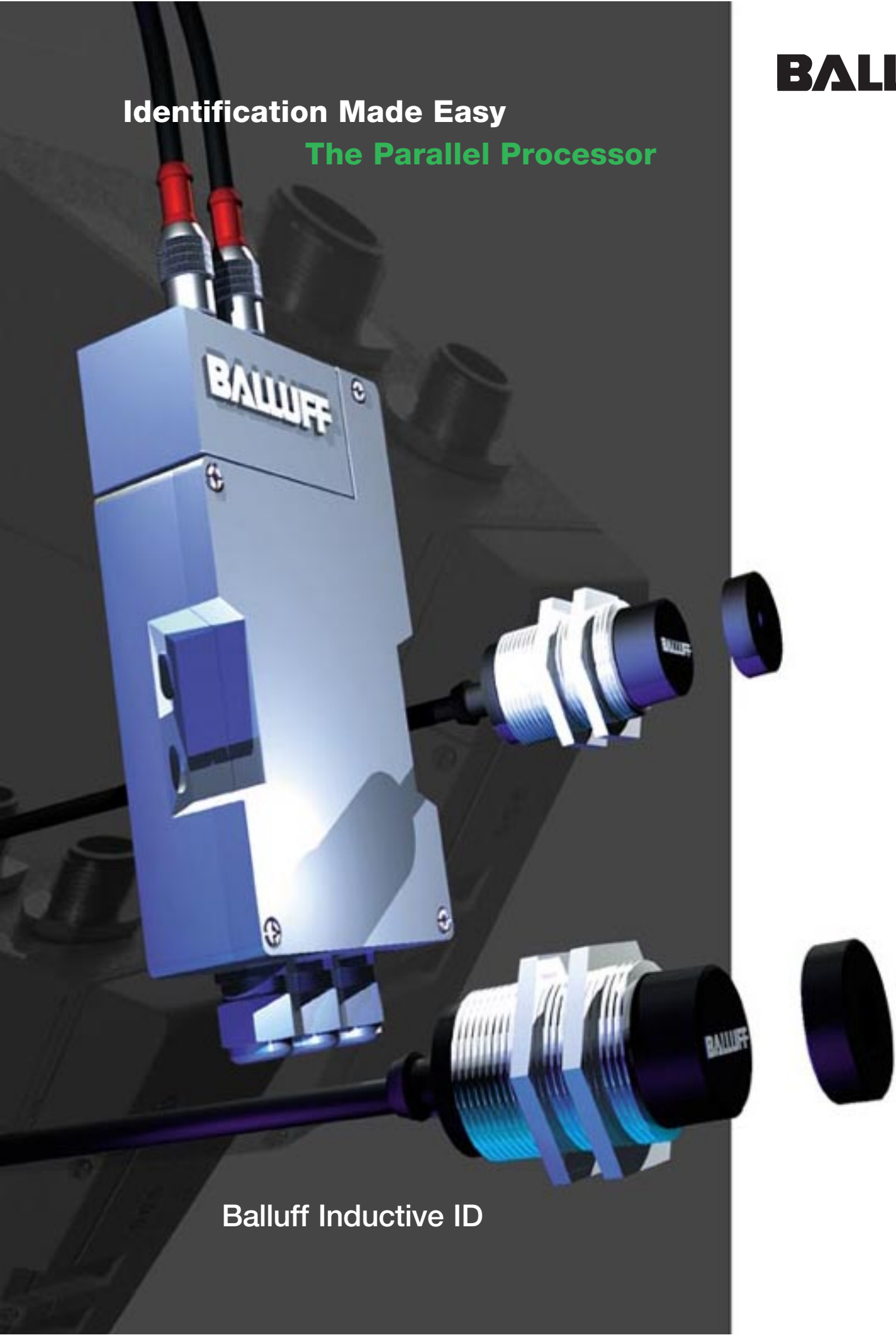


BALLUFF

Identification Made Easy

The Parallel Processor



Balluff Inductive ID

Identification Made Easy

The Parallel Processor

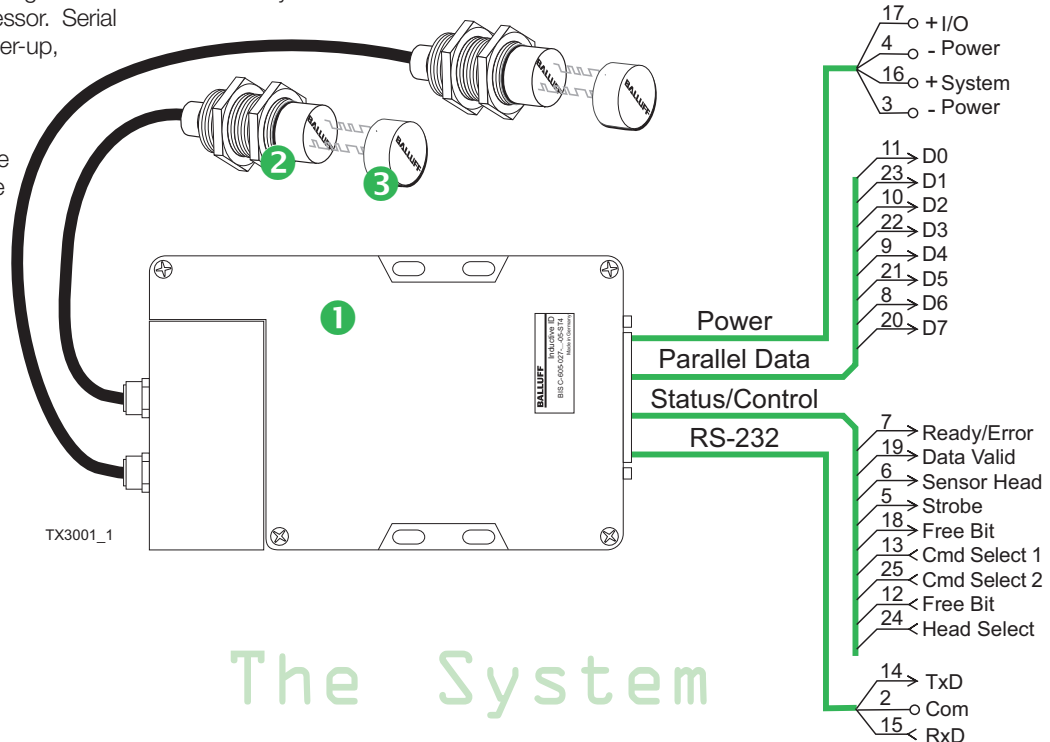
Introduction

Never before has tracking products and processes been so easy. The 605 parallel processor offers a simple cost-effective way of tracking data that has to be accessed quickly. The data carriers are used to hold this tracking data and can be written to, or read from, without physical contact. This is accomplished through passive induction. Access only the portion of data required. Read a bit or a few bytes with the quick and easy parallel interface, or Read / Write large blocks using the serial interface. The freedom is yours to use the data anywhere on the factory floor!

Overview

The 605 is a dual mode device, it can operate as a parallel or serial processor. In the parallel mode it is a read only device that will automatically read the 1st byte. You then can pulse the Strobe input to sequentially access additional bytes one at a time (8000 bytes max). There is also a Free bit that can be written to the data carrier. The Free bit is a non-addressed bit that can be used for quick yes/no decision in your process. Possible examples include: Good / Bad, Large / Small, Type 1/ Type 2, etc.

If you need to transfer a large amount of information you can use the serial mode of the processor. Serial mode is enabled at power-up, when the processor is connected to the serial port. The optional parameters of the device can be changed with the configuration software that is sent with the unit. There is also a monitor program included at no charge.



store
data
anywhere
on the
factory
floor!

The System

The System

The Identification system consists of three components:

1 The Processor:

Manages data transfer between data carrier and sensor-head, along with sending the data back to the host PC or control system.



2 Read / Write head:

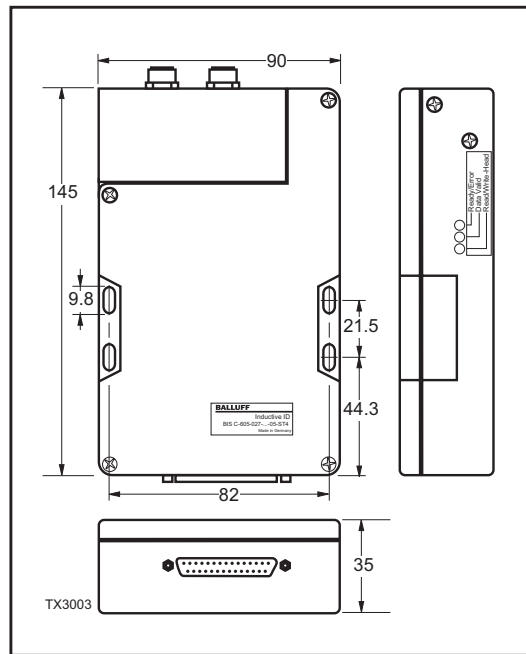
Links processor to data carrier through an air gap. The larger the sensor head, the larger the air gap (4 inch max). Provides power to the data carrier for reading /writing without the use of batteries.



3 Data Carrier:

Mount on your pallet or fixture to hold your data. Encapsulated, EEPROM holds your data without the use of batteries. Variety of data carriers available for any installation requirement.





BIS-C-605-027-650-05-ST4

Read/Write

Technical Data

Electrical Data	Supply Voltage	24 V DC +/- 20%
	Ripple	<= 10%
	Current Draw	<= 400 mA.
	Control Inputs	Optocoupler isolated
	Control Voltage active	4 to 40 V
	Control voltage inactive	1.5 to -40 V
	Input current @ 24 V	11mA
	Delay Time	typ. 5ms.
	Control Outputs	Optocoupler isolated sourcing (PNP)
	Supply Voltage for outputs VS2	24 V DC +/- 20%
	Output Current max.	20mA.
	Voltage Drop @ 20mA	approx. 2.5 V.
	Output Resistance	10 kOhm
	Serial Output	V.24 / RS232
Mechanical Data	Housing Material	ABS Plastic
	Connection	25 Pin SubD
	Protection Rating	IP 54
	Weight	400 grams
	Operating Temperature	0° C+60°C

Product Features

- Easy interface to the PLC through discrete I/O points
- Parallel or serial mode of operation
- Low cost solution for Identification
- Small, compact processor
- Control two sensing heads with one processor
- Optional built in sensor head
- Processor options changed via software configuration
- Optional CRC check for 100% data integrity
- Both sensor heads can be energized at the same time (serial mode only)
- Uses off the shelf BIS-C components
- Service program for trouble shooting
- One 25 pin connector for control system interface
- Error messages in parallel or serial mode
- Auto Read function
- Read / Write capability with RS232 connection
- Read Only with the parallel interface
- All input and outputs are optically isolated

Ordering Code

Standard Parallel Processor
Other Options

BIS-C-605-027-650-05-ST4

Optional Sensor Head Adapter

650= External 2 Head (Standard model)

651= Integral Side Sensing

652= Integral Front Facing (Rotatable)

653= Integral Front Facing for BIS-C-150 carrier (Rotatable)

670= External single head, for the BIS-C-150 carrier

Quality Assurance

Balluff is a world leader in sensor technology.

Our product range includes electronic and electro mechanical proximity switches, linear transducers, and identification systems.

Balluff products are always found where high precision and reliability are demanded.

Our products are indispensable in the field of automation. Anywhere an automated process that requires object detection, material flow, component coding, or a definition of rotational motion or linear travel – Balluff is always the right partner.

The quality system of the Balluff facility in Florence, KY is registered by NSF-ISR to ISO 9001 quality systems. All of our production processes are governed by the stated standard requirements for quality assurance.

Statistical process control (SPC), state-of-the-art production and assembly equipment are standard at Balluff.








NSF's Registration Program is accredited by the American National Standards Institute-Registrar Accreditation Board.



NSF's Registration Program is accredited by the Dutch Council for Accreditation.

Data Carriers and Heads

Data Carriers	Memory Size	Part No.	Heads				
			M16 Metal	M30 Metal	M18 Plastic	Puck Style	170x80x50
 Ø10x4.5	511 bytes	BIS-C-122-04/L	BIS-C-306-05 2.5 mm	BIS-C-310-05	BIS-C-319-05	BIS-C-315-05	BIS-C-351-05
 Ø16x7	1023 bytes	BIS-C-130-05/L	6 mm	10 mm	10 mm	15 mm	
 Ø26x6	1023 bytes	BIS-C-128-05/L		12 mm	15 mm	25 mm	
 52x32x11	8k bytes	BIS-C-108-30/L		6 mm	15 mm	11 mm	
 80x40x22	8k bytes	BIC-C-150-30/A					50 - 100 mm
Operating Distance							

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