

Pre-Contractual Information Obligations pursuant to Art. 3(2) Data Act

The following information is provided to fulfil the pre-contractual information obligations pursuant to Art. 3(2) of Regulation (EU) 2023/2854 (Data Act) and is intended to create transparency regarding data usage at Balluff.

1. Contact

Balluff GmbH
 Zabergäustraße 8
 73765 Neuhausen auf den Fildern
balluff@balluff.com

2. Type, Format and Volume of Data Generated

Our products are designed to generate data required for their specific use case in industrial automation environments. The type and volume of data generated depend on the respective product, its configuration, and the specific use scenario.

The following categories of data may be generated (to the extent implemented in the respective product):

Data Category	Description	Examples
Sensor and Process Data	Data originating directly from the physical or digital process.	Status information (OK, not OK), measured values (length, distance, increments, contrast, colour, width, position), counter readings, process values (temperature, pressure, flow); for vision devices: images, image analysis results (brightness, contrast, presence, shape, count).
Operating and Diagnostic Data	Data relating to the function, performance, and internal status of the product.	Operating states (on/off, mode), error codes, diagnostic log entries, cycle times, alarms, operating temperatures, operating hours, power-on counts, device state, voltage and current, memory state.
Usage Data	Data relating to interaction with the product or its interface.	Duration of use, configuration changes, interaction frequency, information on the connected system.
System Data	Data relating to the system environment or the communication interface (PLC level).	Voltage and power supply data, security incidents, information, warnings and errors, network status, communication quality, timestamps.

Data is generally generated in **common and machine-readable** formats, including purely binary data, data conforming to established industrial automation standards such as PROFINET and IO-Link, as well as CSV and JSON.

3. Continuous and Real-Time Data Generation

Where technically feasible and supported by the respective product, data is generated **continuously and/or in real time** (typical for process and diagnostic data). Other data is generated by the product upon occurrence of specific events (system and diagnostic data).

4. Storage Arrangements

The **duration of storage** depends on the user's configuration and the technical specifications of the connected system. Our products themselves generally store data only temporarily for transmission or diagnostic purposes.

Primary data storage is performed **locally**, either on the device itself (internal memory) or in the storage media of the connected programmable logic controller (PLC)/control system operated by the user.

Sensor and process data are generally not retained on the device but transmitted via interfaces to the connected PLC/control system. Retention of such data is the responsibility of the user's infrastructure.

5. Access, Retrieval and Erasure of Data

Data is generally made available via the **PLC or automation system** to which our product is connected. Access to the data is therefore provided directly through the existing infrastructure of the user's system.

The technical means for accessing data are described in detail in the product documentation of the respective device.

Erasure of data is the responsibility of the customer and is performed via the standard functions of the connected control system or the provided interfaces. Further information can be found in the documentation for the respective products.

6. Disclosure of Data to Third Parties

Balluff does not become a data holder. Data remains with the customer; accordingly, Balluff does not have access to the data unless this is required to provide the agreed services. Data is not shared with third parties by Balluff unless required by law or expressly agreed with the customer.

7. Right to Lodge a Complaint

Pursuant to Art. 37 of the Data Act, the customer, as user, has the right to lodge a complaint with the competent authority in the event of an infringement of the provisions of Chapter II of the Data Act. The competent supervisory authority in Germany is the Bundesnetzagentur (Federal Network Agency).

8. Duration and Termination of Contract

The duration and termination provisions for the respective products and services are regulated separately in the applicable contracts.