

LUTZE Field Bus Components



High Flexibility in System Control

These days, flexibility in machine and system control is a must. Shorter production cycles, faster change-over times, and the simultaneous production of several models require highly flexible and clear machine concepts.

These requirements are increasingly met by the use of field bus systems. They replace the traditional parallel-wire installations in the actuator/sensor area with serial transmission technology. Input/output modules located close to the process act as the interface between the field bus and the actuators and sensors.

Different needs in Decentralised Installations

Lutze field bus components are designed for the most diversified requirements in industrial applications. Choosing from three families of products, you can use the components in different field bus systems.

	DIOFACE	DIOCOM	DIOPLEX
INTERBUS S	●	●	●
PROFIBUS DP		●	●
CAN DeviceNet	●	●	●
CANopen	●	●	
SERCOS	●		



Lutze Field Bus Components hold certification and approvals from the various field bus organisational bodies ie. the Interbus Club and the Profibus organisation.

Dioface



Modular Structure

The architecture of a DIOFACE field station is similar to that of a PLC and consists of basically four components:

1. A module carrier for the modules, which can be snapped onto a DIN rail
2. A power supply for the module electronics
3. The I/O modules for the connection of the sensors, actuators and other peripherals
4. A bus coupling module as the interface to the field bus system

Wiring Independent of the Field Bus

Because of the modular structure of the DIOFACE field station, the peripheral signals are wired independently of the field bus system. This saves money during planning, inventory and installation.

Diocom



Flexible System

DIOCOM field modules are characterised by their versatility and their rugged aluminium enclosures. This modular system consists of a bus coupling module and add-on I/O modules. You can adjust the number of inputs and outputs to your application at any time. Customised compact modules are possible which consists of an I/O configuration specific to the customer's application. This translates into cost savings and less inventory for you.

Easy and Flexible Connection Technology

By using colour-coded plug-in terminals you can clearly assign potential levels and configure the connections individually on each module. Furthermore, the clear correlation between terminal number and I/O signal makes installation quick and easy.

Dioplex



For Applications outside Enclosures

Thanks to the high IP67 protection grade DIOPLEX field units can be installed directly in the machine or system.

The special enclosure material combined with the sealed-in module electronics ensure high operating reliability, even in systems subject to high vibration. The Power supply of the actuators is separate, thus the field units can be ideally integrated into E-STOP concepts. Load currents of up to 2A per channel with 100% concurrency make it possible to directly activate up to to eight actuators. Moreover, the surge peak current can be temporarily higher than the rated current without triggering the short-circuit protection.

Fast System Changes

The installation of the DIOPLEX field units is independent of the field bus system, since the attaching points are the same on all modules. As a result, with functionally identical systems you will save time during planning and decrease installation costs. The same applies to switching from passive actuator-sensor boxes to DIOPLEX filed units.

See Lutze Catalogue 4: Field Bus Technology for complete range and specifications.