

## 6 Preparation for Use

### 6.1 Packing

The microcomputer – controlled interlocking units are packed in individual boxes bearing the label (for example):

"SWITCHGEAR INTERLOCK UNIT 8TK"  
8TK1262 – 0AA26 – 3DA3

The connectors and cables are packed in separate boxes with a label such as (for example):

8TK3810 – 0LA16

The same thing applies to the central unit. The serial data transfer cables have the order designation (MLFB) on the packing (for example):

8TK3830 – 0BA00

The units and accessories are packed in the factory in such a way that the requirements of DIN 40046, part 7, degree of severity 23 (road – rail – ship transport) are met.

Packing and unpacking must be performed with care, without the use of force, and only using suitable tools. The packing can be reused for further transport if applied in the same way. If alternative packing is used, it must be shock – proof to DIN 40046, part 7 (degree of severity 23).

### 6.2 Transport

The equipment and accessories must be transported in the original packing, i.e. it must be mounted and connected on site. If the equipment is already installed in bays or cubicles and is transported with them, the conditions stated in Section 6.1 must be observed.

### 6.3 Checking the ratings

After the equipment has been unpacked, the data on the equipment rating plate must be compared with the delivery note and the labelling on the packing.

## 6.4 Installation

It is advisable to perform installation of the electronic switchgear interlocking unit in four steps:

- First, connect the cable connector for the unit. Because the fixing dimensions of the module rack are known, it is possible to attach the cable for the interface and control modules and the manual control module as shown in the dimension drawings Fig. 6.1 and 6.2. It is important to allow a bending radius "S" for removal of the connector. The connecting cables are connected on the marshalling level (e.g. terminal strip, plug distributor, etc.) as shown in the circuit diagram. All connecting cables –X801 to –X808 are enclosed in a copper cable that must be connected to the PE bar on the terminal block by the shortest possible path (3).

This also applies to the cables for the power supply and the telecontrol cables.

The module rack is connected to the PE bar by the shortest possible path on the right-hand side by an earthing cable with a cross section of at least 2.5 mm<sup>2</sup> (4). After this, the wiring must be checked.

- Secondly, remove all the modules from the rack and lay them in a clean place. Mount the empty rack.

**Caution:** Observe the EMC guidelines!

Now that the module rack is empty, the cable connectors can be hooked onto the holding frame without removing the cover. However, do not yet latch the connectors in position!

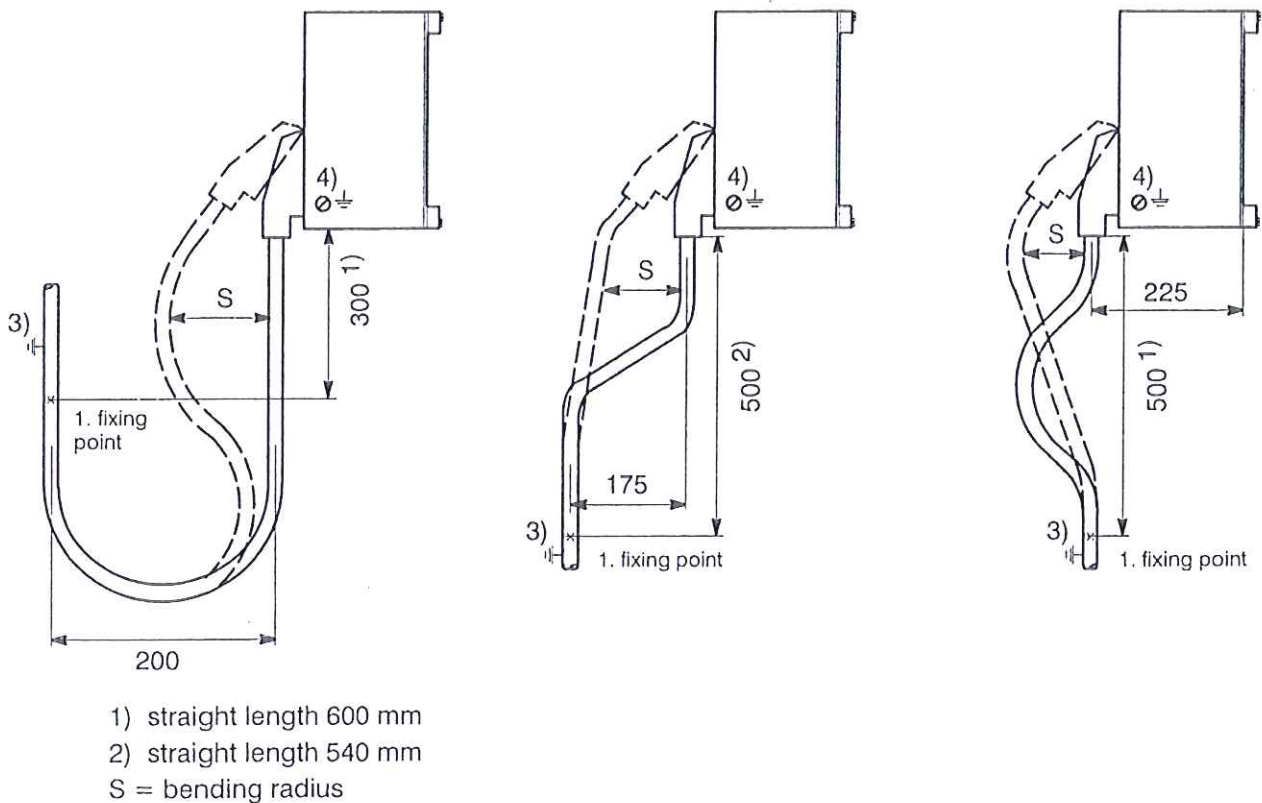


Fig. 6.1 Dimensions for attaching the cables (side view)

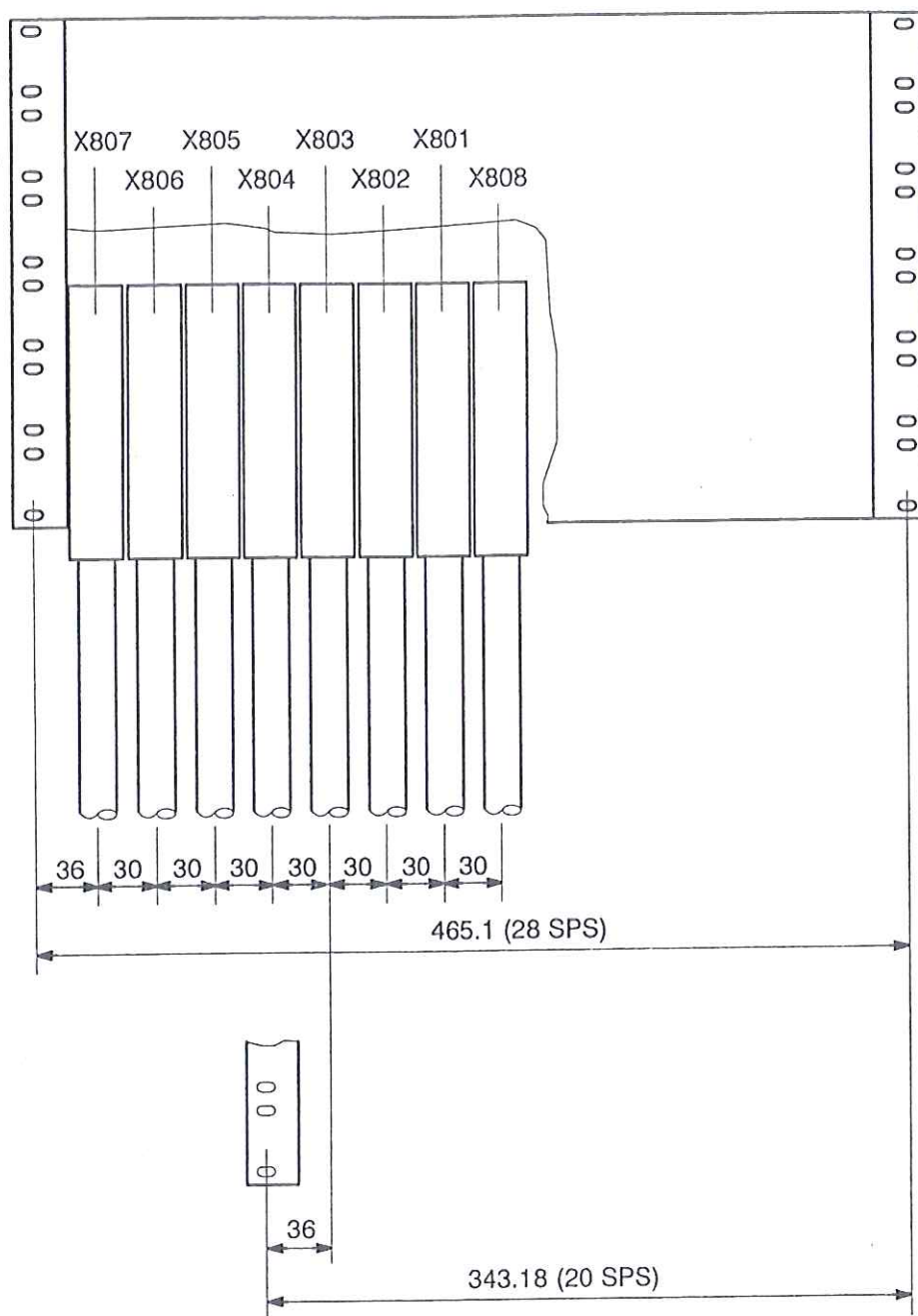


Fig. 6.2 Dimensions for attaching the cables (schematic of the front view of the module rack without modules)

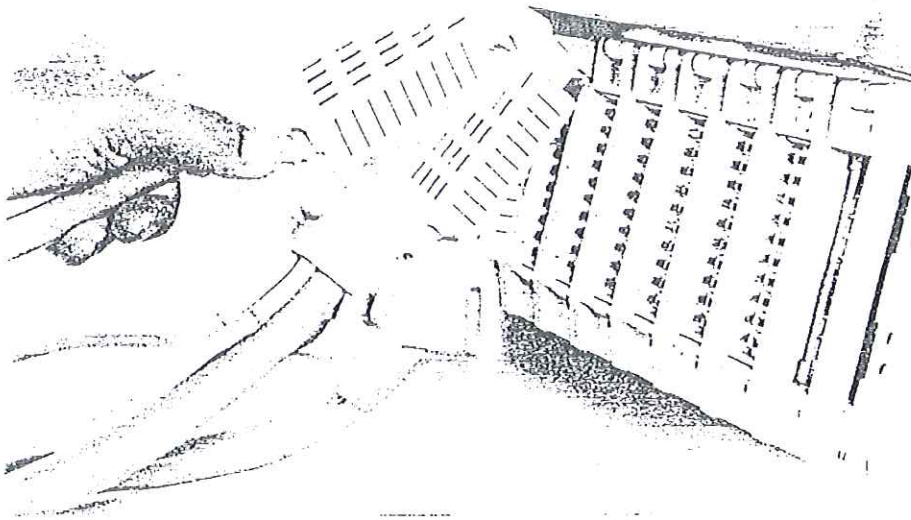


Fig 6.3 Attaching the connectors

- The third step is to insert the modules in the rack again and screw in the securing bars.
- The fourth step is to press each connector onto its mating connector on the module in sequence from right to left until they are all firmly latched in position. Hold the module from the front while doing this.

When all the feeder units and the central unit have been installed in this way, the serial data transfer cables can also be connected.

If the units have been installed in cubicles or bays with door cutouts, it might be necessary to align them.

#### CAUTION!

The units are supplied in a module rack with degree of protection IP20. During installation (and operation) condensation and direct contamination are not permissible.