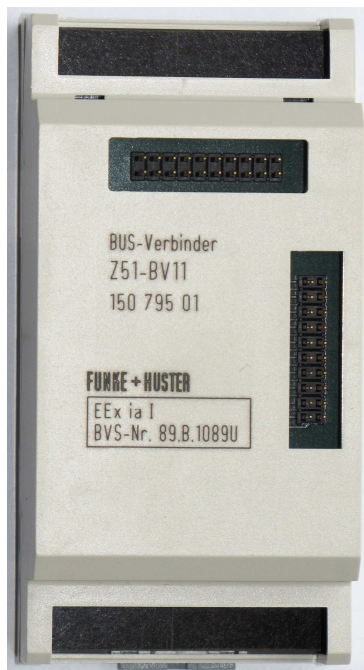


Bus connector Z51-BV11

Ordering data

Designation	Type	Item no.
Bus connector	Z51-BV11	150 795 01



- **Module for the horizontal / vertical deflection of the 20-wire type Z51 I/O bus connection**
- **Module for automation station Z51-iST3****
- **Two 20-pin plug-in connections:**
 - **1 x horizontal**
 - **1 x vertical**

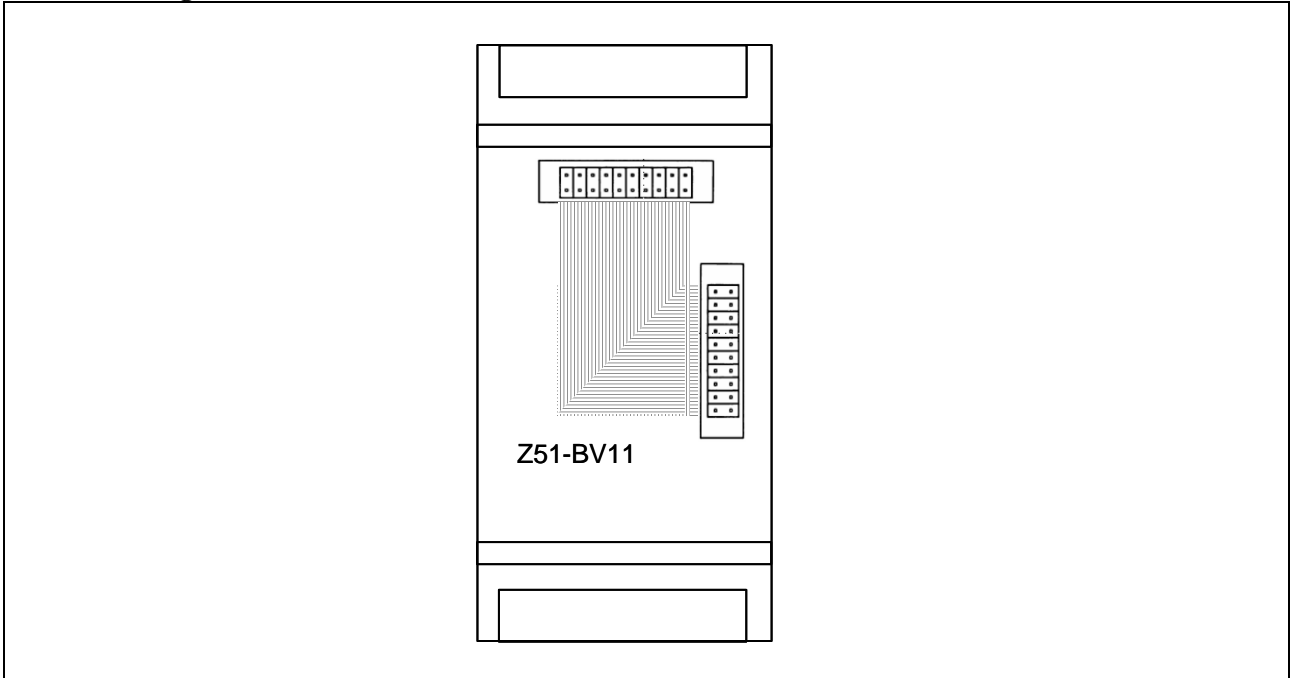
Application

The bus connector module Z51-BV11 features two 20-pin plug connections (header connectors) for the flat ribbon cable 8000A9x of the type Z51 I/O bus connector. The bus connector module is used as a means to horizontally / vertically route or deflect the 20-wire type Z51 I/O bus connection in a telecontrol and automation station of type Z51-iST3** (BVS 03 ATEX E 305).

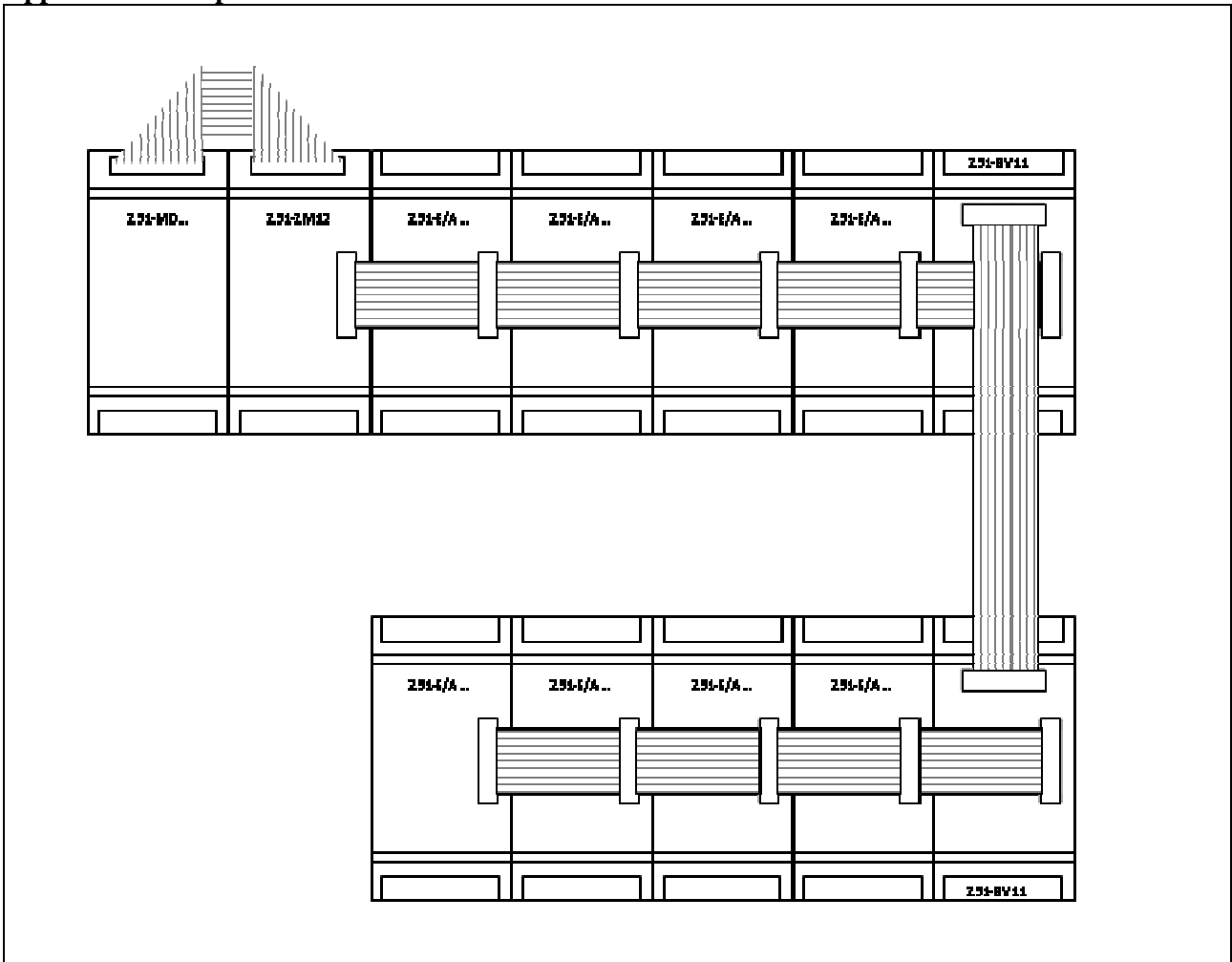
For this purpose, the module has two 20-pin header connectors, one fitted in a horizontal and one fitted

in a vertical position. Access to both header connectors is possible through corresponding cutouts in the module housing. It shall be observed that max. 8 I/O module addresses may be assigned to each CPU (Z51-ZM12, Z51K-2113, Z51-PBC01). In the case of CPU Z51-ZM20-1 which has two I/O bus connections, 8 I/O module addresses can be assigned to each I/O bus connection.

Schematic diagram



Application example



Technical data

Operating temperature range	-20°C to +45°C
Storage temperature range	-25°C to +70°C
Operating mode	100% ON-time
Service position	at choice
Dimensions (W x H x D)	55 x 110 x 40 mm
Weight	0.075kg
Marking	
The nameplate is marked as follows:	
Company	FHF Bergbautechnik 42551 Velbert Germany
Type	Z51-BV11 F. No. Test (short sign, month/year)

Assembly and disassembly

To install the module, it is placed and snapped in position on a 35mm top-hat rail. If need be, the bar in the housing base has to be shifted accordingly.

To remove the module, first detach the connections of the I/O bus flat ribbon cable and then shift the bar in the housing base.

Commissioning and settings

Prior to the commissioning, the correct fastening of the module, the installation and the related cables and connection shall be checked.

Maintenance

The bus connector module Z51-BV11 does not contain any parts requiring maintenance.

Disposal

The disposal of the packaging material and of used parts must be realised in compliance with the regulations of the country in which the device is installed.

Warnings & Safety Advice

<p>This module is a component of explosion-proof design destined for operation inside an explosive atmosphere. It belongs to equipment group I M2 and is suited for use underground. Especially the following warnings and safety advice shall be observed:</p>
<p>Connection and installation of the module have to be carried out by instructed qualified personnel in due consideration of the specified type of protection and in accordance with the applicable regulations for installation.</p>
<p>The interconnection with other equipment must be checked and certified separately.</p>
<p>This module may only be connected and operated with the specified voltage.</p>
<p>Modules with damaged housing must not be operated or have to be put out of service immediately.</p>
<p>For the operation of the device in industrial facilities, the accident prevention regulations of the employer's liability insurance association for electrical installations and equipment have to be observed.</p>
<p>The device must only be operated under the indicated ambient conditions. Harsh ambient conditions can result in damage to the device and therefore lead to a possible risk for the life of the user. Harsh ambient conditions can be:</p> <ul style="list-style-type: none"> • moisture, dusts (pay attention to degree of protection). • combustible gases, vapours, solvents which the type of protection does not cover. • excessively high ambient temperatures (>+45°C) • excessively low ambient temperatures (<-20°C)
<p>The ambient temperature range specified for the module must neither be exceeded nor fallen short of during operation.</p>
<p>Make sure to replace any defective parts by corresponding original spare parts only.</p>
<p>Attachment and installation of further parts is prohibited.</p>
<p>Repairs must only be carried out by the manufacturer or a person committed by the manufacturer for this work in connection with a new routine test for this device.</p>
<p>In case of transport and storage as well as when not in use the devices and components have to be protected against damage and ingress of dirt.</p>
<p>Non-observance of the above mentioned points results in loss of the explosion protection.</p>

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