

Bus system MBM

Our MBM system with IP20 protection can be aligned to your requirements. All applications can be realized with help of modular I/O modules.

Mounting

The unit can be DIN-rail mounted.

Plug in connection technology

The connection is via screw or spring clamp plug in terminals, which allows a fast module change. Potential terminals can be snapped on, too. Additional terminal blocks are not necessary.

Diagnostics

The extensive use of LEDs on the module and messages over the field bus to the master helps to diagnose and locate faults.

Protection against over voltage, over load, short-circuit and reverse polarity

High levels of protection are achieved through well designed fusing for the power supply, input and output terminals.

Galvanic separation

All the inputs and outputs are optically isolated from the field bus. The separate connections of bus nodes and I/O sector make it easy to implement emergency OFF circuits.

Labelling

The large exchangeable label strip for the signals and the module can be labelled manually, or with a printer or plotter.

Open bus system

Murrelektronik supports Profibus-DP with the product range MBM.

Module range

The wide range of modules has been designed to cover most industrial applications.

Certification

All units are certified for the respective bus system. The modules also work with modules from other manufactures.

MBM



MBM Bus nodes
Bus nodes Profibus-DP

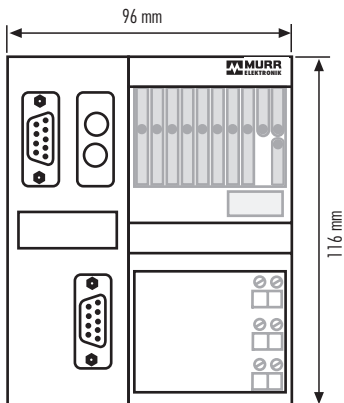


MBM Expansion modules

D18
D16
D08/0.5 A
D016/0.5 A
D14 D04/0.5 A
D04R
D08R
AI4
AO4

Dimension drawing MBM Bus nodes

(Art.-No. 55016, 55018)

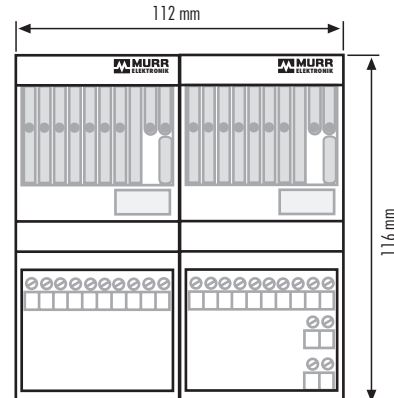
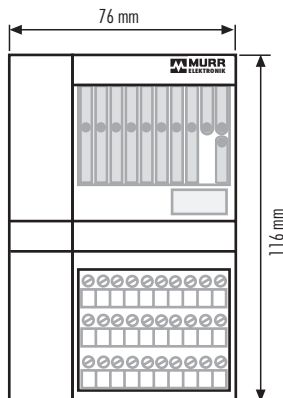
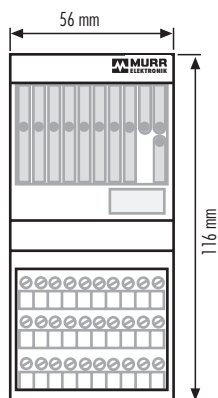


Dimension drawing MBM Expansion modules

(Art.-No. 55920...926, 55930)

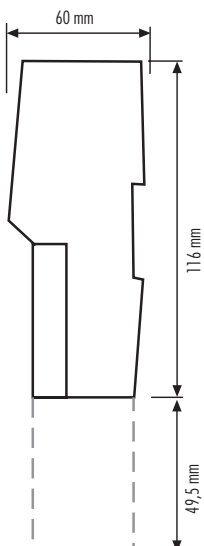
(Art.-No. 55929, 55931, 55891)

(Art.-No. 55927)



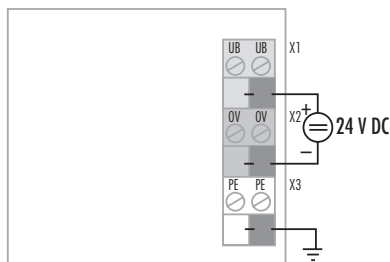
Dimension drawing MBM bus modules, side view

simplified representation
(with potential terminals 3-row)



Connection examples for MBM bus nodes Art.-No. 55016 and 55018

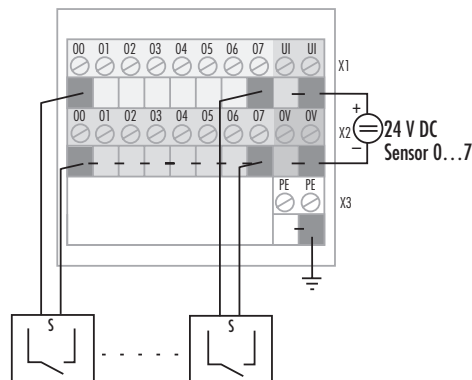
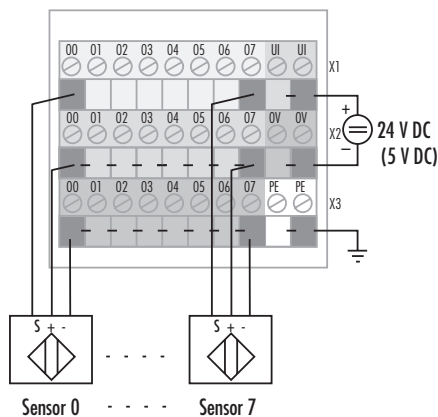
Spring clamp terminal block Art.-No. 55950
 Screw terminal block Art.-No. 55940



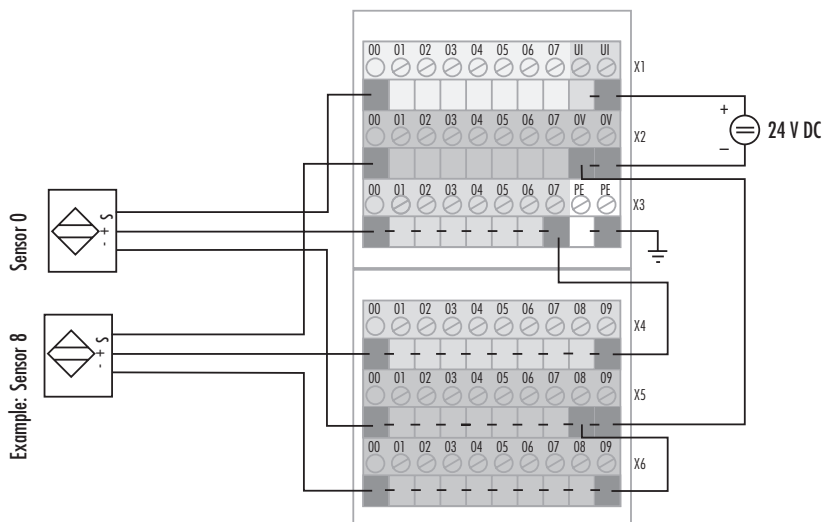
Connection examples for MBM digital 8-way input modules Art.-No. 55920

Spring clamp terminal block Art.-No. 55954
 Screw terminal block Art.-No. 55944

Spring clamp terminal block Art.-No. 55854
 Screw terminal block Art.-No. 55834



Connection example for MBM digital 16-way input module Art.-No. 55921

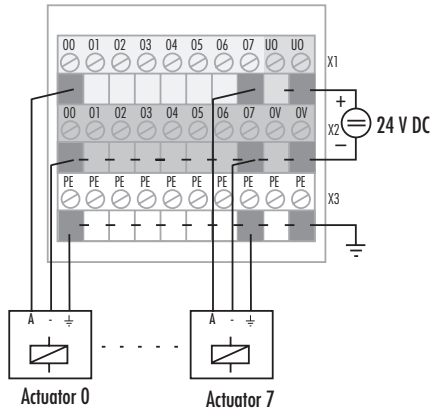


Spring clamp terminal block Art.-No. 55953
 Screw terminal block Art.-No. 55943

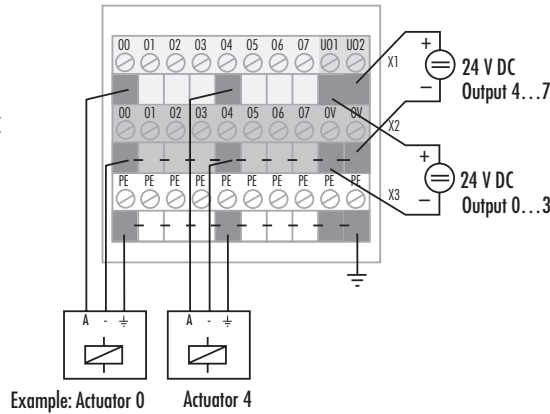
Common spring clamp terminal block Art.-No. 55995
 Common screw terminal block Art.-No. 55990

Connection examples for MBM digital 8-way output modules Art.-No. 55922

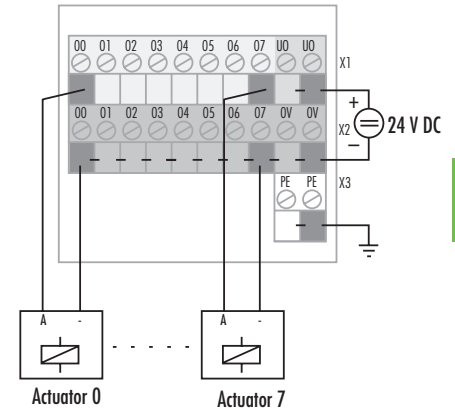
Spring clamp terminal block Art.-No. 55955
Screw terminal block Art.-No. 55945



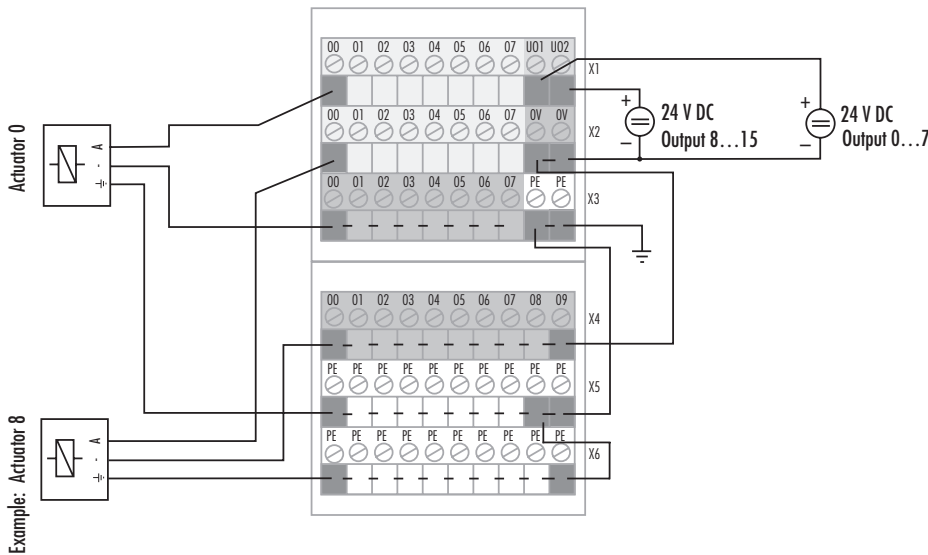
Spring clamp terminal block Art.-No. 55956
Screw terminal block Art.-No. 55946



Spring clamp terminal block Art.-No. 55855
Screw terminal block Art.-No. 55835



Connection example for MBM digital 16-way output module Art.-No. 55923

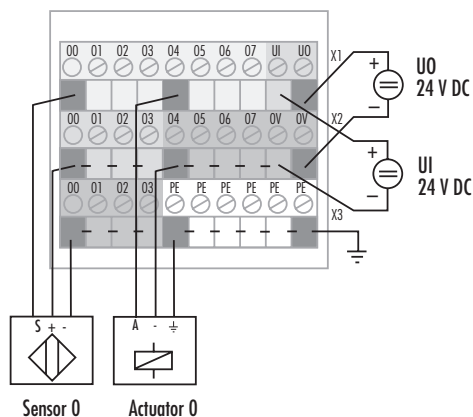


Spring clamp terminal block Art.-No. 55958
Screw terminal block Art.-No. 55948

Common spring clamp terminal block Art.-No. 55996
Common screw terminal block Art.-No. 55991

Connection example for MBM digital input/output module Art.-No. 55882

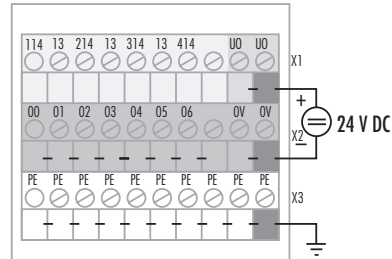
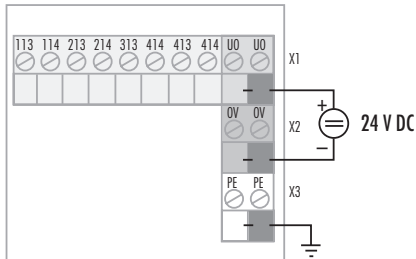
Spring clamp terminal block Art.-No. 55852
Screw terminal block Art.-No. 55832



Connection examples for MBM 4-way relay module Art.-No. 55925

Spring clamp terminal block Art.-No. 55951
Screw terminal block Art.-No. 55941

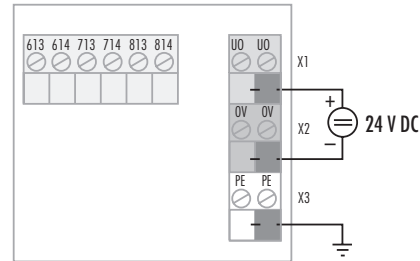
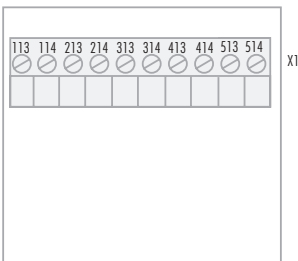
Spring clamp terminal block Art.-No. 5597
Screw terminal block Art.-No. 5592



Connection examples for MBM 8-way relay module Art.-No. 55927

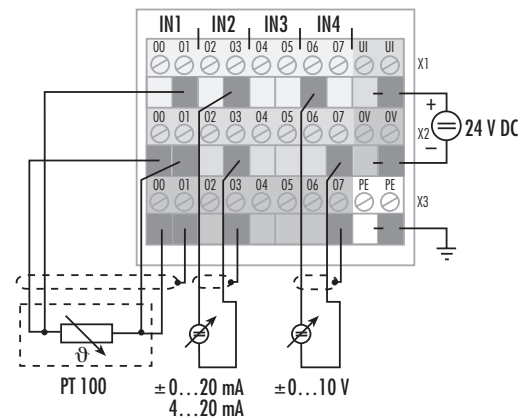
Spring clamp terminal block Art.-No. 55959
Screw terminal block Art.-No. 55949

Spring clamp terminal block Art.-No. 55851
Screw terminal block Art.-No. 55831



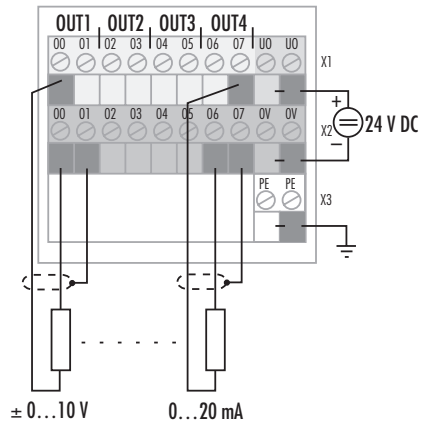
Connection example for MBM analog input module Art.-No. 55891 and 55929

Spring clamp terminal block Art.-No. 55957
Screw terminal block Art.-No. 55947



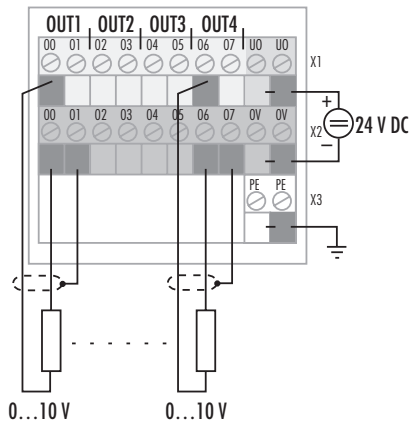
Connection examples for MBM analog output modules Art.-No. 55930

Spring clamp terminal block Art.-No. 55858
 Screw terminal block Art.-No. 55838



Connection examples for MBM analog output modules Art.-No. 55931

Spring clamp terminal block Art.-No. 55952
 Screw terminal block Art.-No. 55942



| Screw terminal block | | | Art.-No. |
|-----------------------------|--|----------------------------|------------|
| | for MBM-P | 3 x 2-pole Supply voltage | 55940 |
| | for MBM DI8 | 3 x 10-pole 3-wire | 55944 |
| | for MBM DI16 | 3 x 10-pole 1-wire | 55943 |
| | for MBM DO8/0.5 A | 3 x 10-pole 3-wire | 55946 |
| | for MBM DO8/0.5 A | 3 x 10-pole 3-wire | 55945 |
| | for MBM DO16/0.5 A | 3 x 10-pole 1-wire | 55948 |
| | for MBM DO4R | 1 x 10-pole 1-wire | 55941 |
| | for MBM AI4 | 3 x 10-pole 2-, 3-, 4-wire | 55947 |
| | for MBM AO4U; MBM AO4 | 2 x 10-pole 3-wire | 55942 |
| | for MBM-P DI8 (2 x UB) | 3 x 10-pole 3-wire | 55976 |
| | for MBM DI4 DO4 | 3 x 10-pole 3-wire | 55832 |
| | for MBM DO8/0.5 A | 2 x 10-pole 2-wire | 55835 |
| | for MBM DO4R | 3 x 10-pole 3-wire | 55592 |
| | for MBM DO8R (left) | 1 x 10-pole 1-wire | 55949 |
| | for MBM DO8R (right) | 1 x 6-pole 1-wire | 55831 |
| Spring clamp terminal block | | | Art.-No. |
| | for MBM-P | 3 x 2-pole Supply voltage | 55950 |
| | for MBM DI8 | 3 x 10-pole 3-wire | 55954 |
| | for MBM DI16 | 3 x 10-pole 1-wire | 55953 |
| | for MBM DO8/0.5 A | 3 x 10-pole 3-wire | 55956 |
| | for MBM DO8/0.5 A | 3 x 10-pole 3-wire | 55955 |
| | for MBM DO16/0.5 A | 3 x 10-pole 1-wire | 55958 |
| | for MBM DO4R | 1 x 10-pole 1-wire | 55951 |
| | for MBM AI4 | 3 x 10-pole 2-, 3-, 4-wire | 55957 |
| | for MBM AO4U; MBM AO4 | 2 x 10-pole 3-wire | 55952 |
| | for MBM-P DI8 (2 x UB) | 3 x 10-pole 3-wire | 55977 |
| | for MBM DI4 DO4 | 3 x 10-pole 3-wire | 55852 |
| | for MBM DO8/0.5 A | 2 x 10-pole 2-wire | 55855 |
| | for MBM DO4R | 3 x 10-pole 3-wire | 55597 |
| | for MBM DO8R (left) | 1 x 10-pole 1-wire | 55959 |
| | for MBM DO8R (right) | 1 x 6-pole 1-wire | 55851 |
| Common terminal block | | | Art.-No. |
| Screw terminal block | MBM DI16 | 3 x 10-pole 3-wire | 55990 |
| | MBM DO16/0.5 A | 3 x 10-pole 3-wire | 55991 |
| Spring clamp terminal block | MBM DI16 | 3 x 10-pole 3-wire | 55995 |
| | MBM DO16/0.5 A | 3 x 10-pole 3-wire | 55996 |
| System cables | | | Art.-No. |
| | MBM System connection cable 0.5 m to local adapter | | 55911 |
| Connectors and cables | | | Art.-No. |
| | Profibus connector | without PG-connection | 55762 |
| | Profibus connector | with PG-connection | 55766 |
| | Profibus data cable | per meter | 55770 |
| System components | | | Art.-No. |
| | repeater, | | 56960 |
| | master, gateways | | on request |
| Others | | | Art.-No. |
| | MBM-TL terminal-lock | | 55896 |