

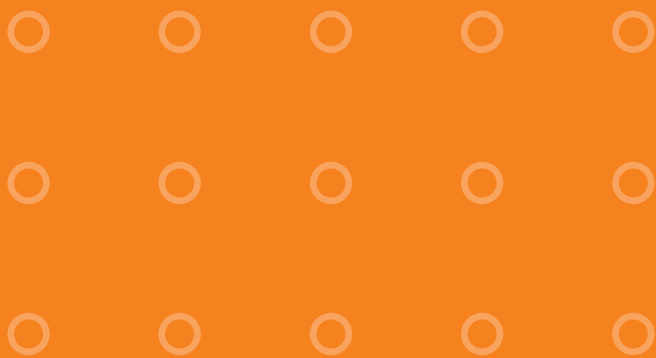
# New MDP lightning barriers

High performance lightning barriers with test function

Data line protection, compact and high performance



TBS Transient voltage and lightning protection systems



# Flexibility and variety

## MDP lightning barriers

The new MDP lightning barriers combine the advantages of a narrow width, together with a high number of poles, and the option of testing after installed. With a width of just 8 mm, the lightning barrier can also be installed in distributor cabinets, in which little space is available.

The lightning barriers are available in the voltage versions 5 V, 24 V and 48 V with either two, three or four poles. The internal circuit structure permits use of the MDP in all kinds of measurement and control circuits from voltage-controlled signal applications right through to 4-20 mA sensors. The low capacity and inductivity

protection circuit allows the use from DC applications for signals up to 100 MHz. All the lightning barriers of type MDP.../.....-T have an additional important feature.

The "Life Control" testing device developed by OBO Bettermann allows the test of the integrated protection elements while in operation. Test will be done without any influences or interruption of the actual testing circuit. There is no need to remove the protection device or switch off the signal circuit.

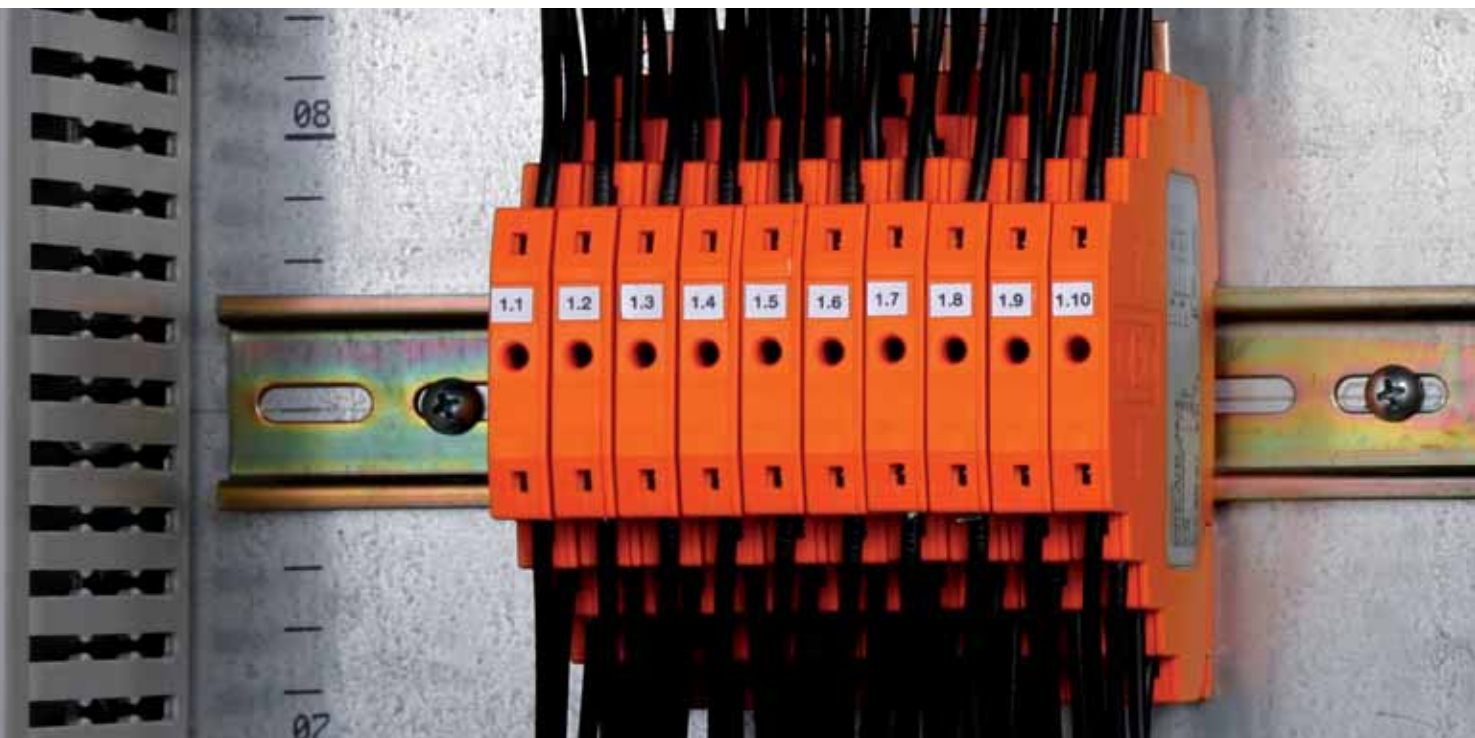
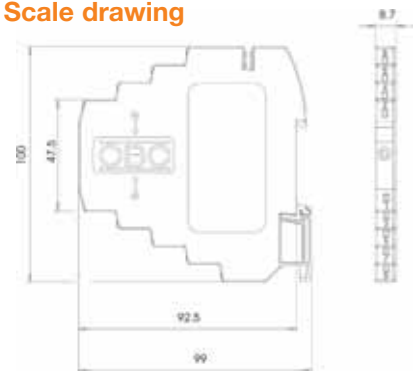


Connecting bridge VB-MDP/10-MD

The use of the connecting bridge, type VB-MDP/10-MD, allows the connection of multiple lightning barriers. This allows the shared

equipotential bonding of multiple MDP protection devices. A low-resistance connection between the lightning barriers (MDP) is given.

## Scale drawing



# Fast and convenient testing



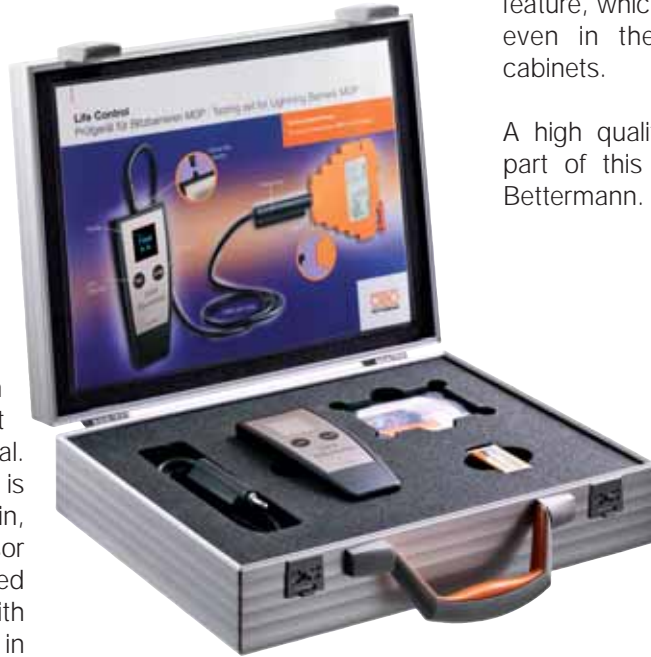
## Life Control

It is often necessary to check the functionality of the overvoltage protection devices within a data line. In that case, it is particularly important to ensure that the actual testing of the protection devices has no negative influence on the data signal.

The "Life Control" testing device, developed by OBO Bettermann, permits testing of the protection devices whilst connected, without any influences on the data signal. The appropriate lightning barrier is contacted by using the testing pin, and the integrated microprocessor shows the test result on the installed OLED display, underlining this with acoustic signals. A integrated LED in the testing pin is an additional

feature, which allows the orientation even in the darkest distribution cabinets.

A high quality case is component part of this innovation from OBO Bettermann.



„Life Control“ is delivered in a case, complete with accessories.

Life Control, Art.-No. 5096786



In data technology, it is essential that the testing of the protection devices has no negative influence on the measuring signal.

"Life Control" permits testing of the protection devices whilst connected.

The integrated microprocessor tests the functionality of the protection elements and has an integrated OLED with an optical and acoustic performance display.



# Ordering data

## ► Types of MDP lightning barrier

Type	Maximum continuous voltage	version	Art.-No
MDP-2/D-5-T	5 V	2-pole with test function	5098 40 4
MDP-3/D-5-T	5 V	3-pole with test function	5098 40 7
MDP-4/D-5-T	5 V	4-pole with test function	5098 41 1
MDP-2/D-24-T	24 V	2-pole with test function	5098 42 2
MDP-3/D-24-T	24 V	3-pole with test function	5098 42 7
MDP-4/D-24-T	24 V	4-pole with test function	5098 43 1
MDP-2/D-48-T	48 V	2-pole with test function	5098 44 2
MDP-3/D-48-T	48 V	3-pole with test function	5098 44 6
MDP-4/D-48-T	48 V	4-pole with test function	5098 45 0
Life Control		testing device	5096 78 6
Earthing strip		for 10 lightning barriers	5098 74 0

### MDP.../D...T: lightning barrier with test function

- ▶ Protection unit for multiwire systems, available with two, three or four poles
- ▶ Direct shield earthing
- ▶ With installation-friendly, screwless connection terminals
- ▶ In a space-saving 8 mm grid
- ▶ Protection circuit testable with "Life Control" testing device
- ▶ Low protection level at high current load
- ▶ High bandwidth up to 100 MHz

**Application:** universal use on 35 mm installation rail

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