



MDD-6, MDS-12

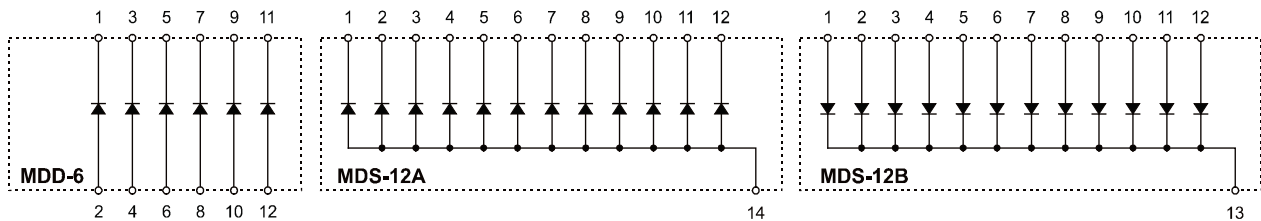
DIODE
MODULES

APPLICATION

The MDD-6, MDS-12A/B diode blocks are meant for use in, steering signalling and protection circuits. Diode blocks enable diode separation of steering and signalling circuits. They are most commonly used in circuits of probe lamps or to create cumulative signal. The diodes used in the diode blocks has parameters sufficient to be used in 220 V DC installations. The MDD-6 block has 6 independent diodes, the MDS-12A has twelve diodes with common anode, the MDS-12B has twelve diodes with common cathode. Such combination enable execution of variety of connections in the external circuits.

CONSTRUCTION

The diode blocks are mounted in a typical housing size 110 × 55 × 77 mm, with 14 terminations in a form of a plug, suitable to be mounted in a GZ-14 socket (plate-mounting), GZ-14U (bus-mounting), or GZ14Z - to be mounted in a relay chassis type R8614Z. The scheme of connections (terminations) is presented on Picture 1.



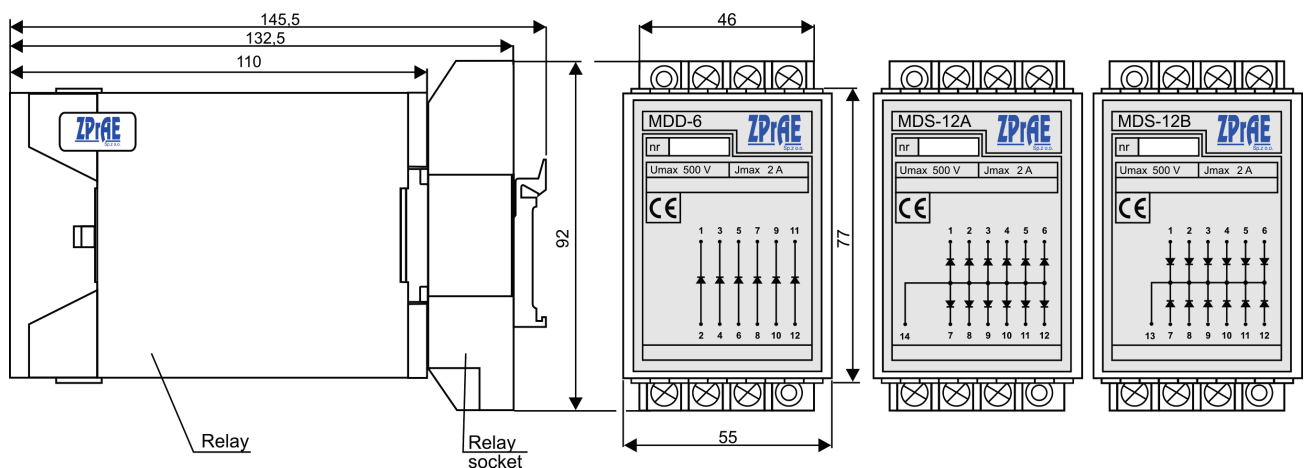
Picture 1. Functional schemes of the diode blocks.

OPERATION

In the MDD-6 block, after application of positive potential on terminations with even number (from 2 to 12) the same potential will be obtained on terminal with a number less by one. In the MDS-12A application of positive potential on terminal 14 results with presence of this potential on all terminals number 1-12. In MDS-12B application of negative potential on terminal 13 results with presence of this potential on all terminals number 1-12.

TECHNICAL INFORMATION

Data of single diode in a set	
Maximum negative voltage	$U_{\max} = 500 \text{ V}$
Maximum current flow	$J_{\max} = 2 \text{ A}$
Data of the set	
Nominal current	$J_n = 1 \text{ A}$
Power of dissipation of a diode for $J_n=1 \text{ A}$	$< 1 \text{ W}$
Insulation	
Rated insulation voltage	250 V
Overvoltage category	III
General Data	
Enclosure protection degree	IP40
Ambient temperature	from $-5 \text{ }^\circ\text{C}$ to $+40 \text{ }^\circ\text{C}$
Ambient protection	RT II
Terminations (socket/plug)	GZ14
Dimensions	$77 \times 55 \times 110 \text{ mm (W}\times\text{S}\times\text{G)}$
Mounting	as R15 4P to the mounting socket



Picture 2. Dimensions of the MDD-6, MDS-12A, MDS-12B diode blocks

Attention:

We have prepared a vast offer of auxiliary equipment in order to support mounting of our relays (cases, sockets, plugs). The auxiliary equipment is designed based on our clients suggestions and many years of our own experience. More information can be found in catalogue: "GZ-14/GZ-14Z, R-8614/R8614Z, ZAS-55, ZAS-70, plugs, sockets and relay-chassis" available at www.zprae.pl

MDD-6 MDS-12



OFFER



RSH-3, RSH-3S - tripping

RS-6, RPD-2, RPP-4, RPP-6 - interposing

RMS-2 - signalling

RCW-3, RCDW-1 - circuit continuity monitoring

RKO-3 - power supply circuit
continuity monitoring

RB-1, RBS-1, RBS-2 - bistable

RT-22 - time

RUT-2, RUT-3 - time-voltage

RJT-1, RJT-3 - time-current

RKU-1, RKS-1 - final controlling

LZ-1, LZ-2 - operation counters

RPZ-1 - supply source switching

GPS-1 - time synchronisation

MDD-6, MDS-12 - Diode modules

PH-XX, PS-XX - Modules of switches,
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