

# RMS-2/w/z

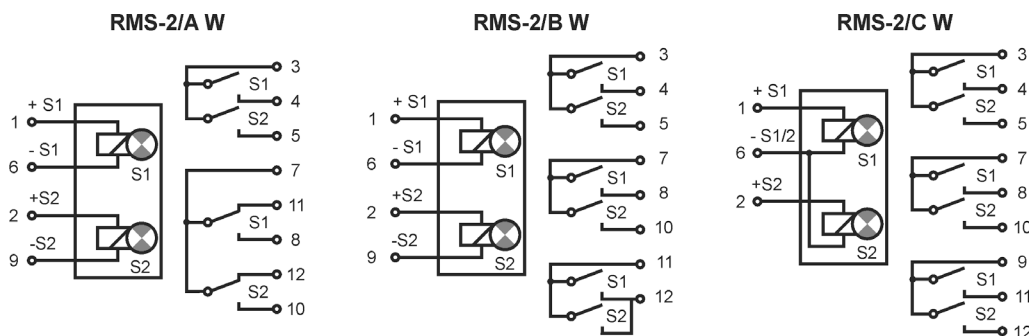
SIGNALLING

## APPLICATION

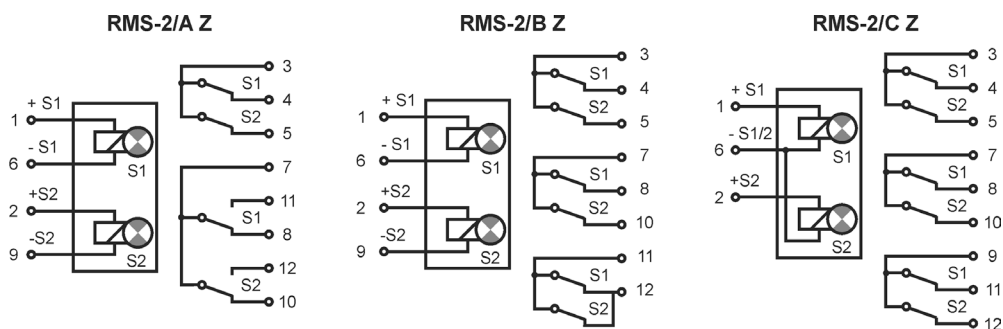
The RMS-2 relay is a signalling relay designed for visualisation and multiplication of two signals in the protection systems. The relay does not demand supply voltage and its operation is dependent only on the steering voltage.

## CONSTRUCION

The relay has two isolated, independent signalling elements. Each element has an electromechanical indicator of operation and its output relay (S1/S2), as well as a manual reset button. The relay is produced in two versions: "W" for increase of steering voltage, and "Z" for decay of the steering voltage. The relay is offered with 3 versions of terminations. The scheme of connections (terminations) is described on picture 1 and picture 2.



Picture 1. Functional Scheme of connections of RMS-2 W relay (de-energised condition)



Picture 2. Functional Scheme of connections of RMS-2 Z relay (de-energised condition)

The relay is mounted in a typical housing sizes 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. Dimensions of the relay are presented on picture 3.

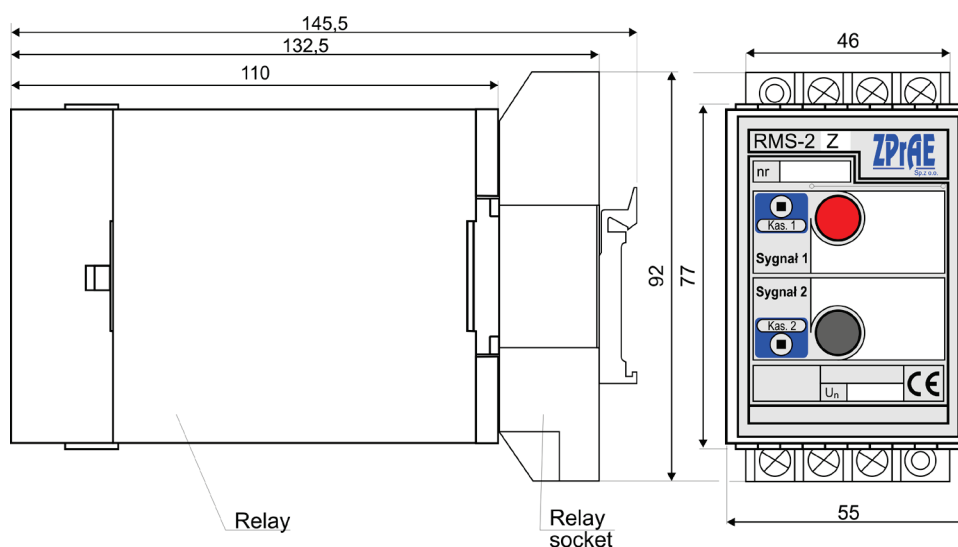
## OPERATION

The W version of the relay (operation for increase of voltage) – upon application of the steering voltage the output relay (S1/S2) operates and the optical indicator changes colour from black to red. In case the steering voltage decays the indicator does not change its status. The output relay returns to its primary status. Resetting the optical indicator is possible by pushing the reset button (Kas1/Kas2) and is possible only when the steering voltage is not applied.

The Z version of the relay (operation for decay of voltage) – upon loss of the steering voltage the output relay (S1/S2) releases and the optical indicator changes colour from black to red. In case of application of the steering voltage the indicator does not change its status. The output relay is activated. Resetting the optical indicator can be done by pushing the reset button (Kas1/Kas2) and is possible only when the steering voltage is applied.

**TECHNICAL INFORMATION** (for  $U_n = 220 \text{ V DC}$ )

<b>Power Supply</b>	
Rated voltage of the coil	$U_N = 220 \text{ V DC}$ , or other as ordered
Operate range of the input voltage	$0,8 \dots 1,15 U_N$
Power consumption from the steering voltage	$P \leq 3 \text{ W}$ for DC
Number of elements	2
Minimal time of steering pulse	$T_s = 20 \text{ ms}$
<b>Contacts of the relay</b>	
Maximal breaking capacity	$I = 0,2 \text{ A}$ for $U = 220 \text{ V}$ ; $L/R = 40 \text{ ms}$
Maximal continuous current	$I = 5 \text{ A}$
<b>Insulation</b>	
Rated insulation voltage	250 V
Rated impulse voltage (1,2/50 $\mu\text{s}$ ) between the coil and the contacts	4000 V
Overvoltage category	III
Proof voltage between the coil and the contacts	2 kV; 50 Hz; 1 min
Proof voltage of the contact gap	1 kV 50 Hz 1 min
<b>General Data</b>	
Enclosure protection degree	IP40
Ambient temperature	From $-5 \text{ }^\circ\text{C}$ to $+40 \text{ }^\circ\text{C}$
Ambient conditions protection	RT II
Terminations (socket / plug)	As for R15 4P
Dimensions	$77 \times 55 \times 110 \text{ mm}$ (H×W×D)
Mounting	Mounting socket as for R15 4P



Picture 3. Dimensions of the RMS-2 relay.

**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](http://www.zprae.pl)

# RMS-2/w/z



## 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,  
pushbuttons and control lamps

Relay racks

Busbar protections and breaker failure  
protections type TSL-9r, TSL-11

Auxiliary and signalization  
relays

Reserve Central Signalling System  
type MSA-9, MSA-12, MSA-24

Protection relays  
type AZT-9, APP-9

Disturbance recorder RZS-9

Energy measurement system  
and event recorder ZRZ-28

Load Resistors  
for measuring transformers

DC and AC auxiliary  
power supply switchgears

Cubicle-contained sets of control  
and supervision protections

Modular power supplies, measuring suitcases,  
measuring and registering system RFQ-8

PROFIL-L cubicles

Periodical and post-failure tests,  
as well as repairs and overhauls  
of busbar protections TSL

Servicing, strting-up  
and post assembly tests



ZAKŁAD PRODUKCYJNY APARATURY ELEKTRYCZNEJ

Sp. z o.o. 41-100 Siemianowice Śląskie, ul. Marii Konopnickiej 13  
tel: (032) 2200120; fax: (032) 2200125; e-mail: biuro@zprae.pl