



## Control ground continuity relay UKU - S

for rated voltage 400V, 500V, 1000V



The control continuity of the ground relay of the adjustable resistance tripping type UKU/S is designed to control the value of ground resistance of the receiver. The system is designed for use in 3-phase grids with rated voltage of 400V, 500V, 1000V with insulated neutral point of the transformer and in devices designed to operate on the ground or in mine face pits in non-explosive conditions, in conditions without methane explosion hazard and classified as A coal-dust explosion hazard. In the measuring circuit can be engaged contacts locks or other elements of the control circuit, thereby carrying out no voltage, remote control of external devices.

### TECHNICAL DATA:

ingress protection  
rated supply voltage  
continuous current executive contacts  
resistance return/ tripping

IP20  
24V AC or 24V AC/DC  
8A

80Ω/100Ω  
150Ω/200Ω  
200Ω/300Ω  
300Ω/400Ω

dimensions  
weight

80 x 25 x 100mm (height x width x depth)  
0,15 kg

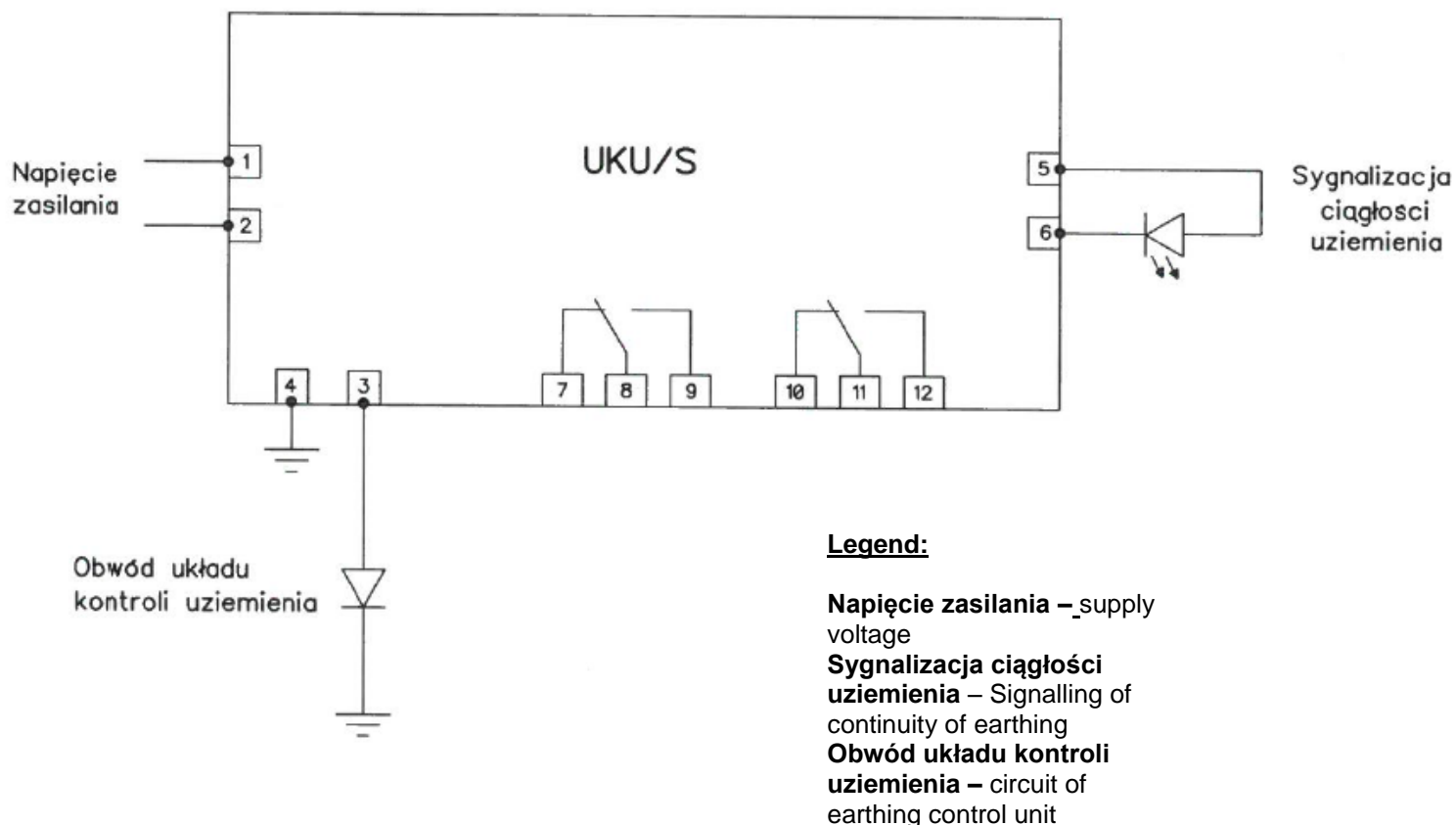
## CONSTRUCTION

The relay is manufactured in plastic housing of IP 20 protection class, mounted on TS-35 rail. Depending on the version, the relay can be supplied by AC voltage 24V AC or can be supplied universal AC voltage 24V AC and 24V DC. For the measurement of resistance controlling circuit, auxiliary AC voltage is used. It is engaged in measuring circuit of the relay. From housing following circuits are led out through joint socket:

- supply: terminals 1-2 (properly positive pole and the negative pole for 24V DC version),
- inputs: terminal 4 - earthing, 3 - controlled circuit (measuring circuit),
- two executive switchable contacts: 7,8,9 terminals, terminals 10,11,12.

The relay UKU/S provides signalling the condition of the resistance of controlled line using LED diodes located on the face of the relay. Besides signalling diode there are four diodes presenting 6 conditions of controlled resistance of the line:  $R < 80\Omega$ ,  $80\Omega < R < 150\Omega$ ,  $150\Omega < R < 250\Omega$ ,  $250\Omega < R < 350\Omega$ ,  $350\Omega < R < 450\Omega$  and  $R > 450\Omega$ . Term of correct operation of the relay is connection in the end of controlled circuit rectifying diode f.e. 1N4007, which one pole of it must be earthing.

## SCHEMATIC DIAGRAM



Orders should be submitted in writing or by fax to the address