

## MSR-Relays will solve the problems connected with electromechanical contact devices

### Switching safety ?

A pulse type control voltage of 35 - 40 V will allow a safe switching, even at a contact resistance of up to 4.700 ohms.

### Service life ?

By pulse type control signals in the ratio of 1:100 breaking and making of the contacts will be without voltage at 99%. The service life of the contacts will be extended significantly.

### Oilfilled instruments ?

By pulse type control signals in the ratio of 1:100 the burning of the oil will be prevented. In this connection the darkening of the oil will be prevented, also.

### Wrong switching operations ?

Wrong switching operations of the contact caused by vibrations will be reduced by means of the introduced fall delay time of approx. 0,4 seconds.

### Switching performance ?

MSR-relays are equipped with a posterior relay with potential free changer.

Performance: max. 250 V AC, 8A

### Would you like to learn more ?

...please have a look into our catalogue-group K11.

### Available versions:

MSR 010 for single contacts  
MSR 020 for double contacts  
MSR 011 for double contacts at Min/Max-operations, i.e. pumps.



Picture: MSR 020, supply voltage 230 V AC

### Technical data (for the standard version)

Supply voltage: 230 V AC, altern. 115 V AC, 24 V AC or 24 V DC  
Control voltage: 35 - 40 V DC pulse  
Relay output: 230 V AC, 8 A, 2000 VA  
Housing: 50 x 43,5 x 97 (BxHxT), montierbar auf Normschiene nach EN 50022