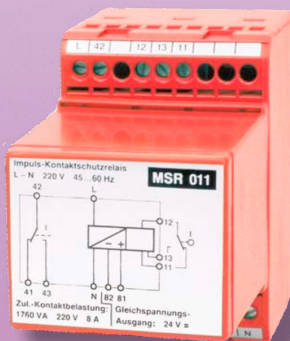
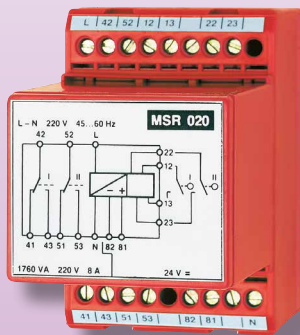


# Contact Protection Relay with Optional Latching Function



measuring  
•  
monitoring  
•  
analyzing

MSR



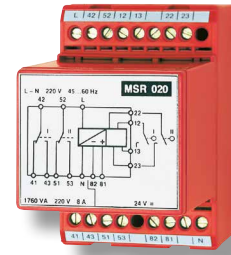
- For Protection of Reed Contacts
- 8A Max. Switching Capability
- 1 or 2 SPDT Contacts
- Precise Switching Behavior
- Latching Version Available



Order from: **C A Briggs Company**  
622 Mary Street; Suite 101; Warminster, PA 18974  
Phone: 267-673-8117 - Fax: 267-673-8118  
[Sales@cabriggs.com](mailto:Sales@cabriggs.com) - [www.cabriggs.com](http://www.cabriggs.com)

**Description**

The KOBOLD MSR is comprised of a power supply unit, an isolation amplifier and a switching amplifier. The switch capacity of reed contacts is often exceeded when switching capacitive, inductive or high current loads, typically resulting in greatly decreased contact life. Using the MSR eliminates these problems and extends the service life of the reed switch. Models MSR-010 and MSR-020 have a timed response to help reduce chatter and clearly define the switching operation. The model MSR-011 is used as a latching relay and is well suited for easy high and low level control of a pump or fill/drain valve.



**Specifications**

**Input Power**

**Standard:** 230 VAC -10%, +6%,  
50...60 Hz  
6 VA Nominal

**Optional:** 24 VDC  
24 VAC  
110 VAC

**Input Control Voltage:** 35-40 VDC, Electrically Isolated

**Input Pulse Width Ratio:** 1:100 Nominal

**Contact Resistance:** ≤ 4.7 kOhm

**Pulse Width:** 500 μs Nominal

**OFF Delay:** Approx. 0.5 seconds

**Relay Output:** MSR-010  
(1 SPDT Contact)  
MSR-020  
(2 SPDT Contacts)  
MSR-011  
(1 SPDT Latching Contact)  
Max. 250 VAC / 8 A  
Min. 24 VDC / 0.1 A

**Aux. Control Voltage:** 24 VDC @ 20 mA Max.

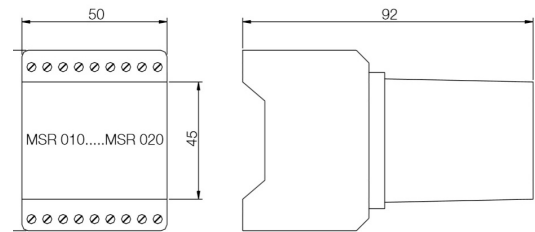
**Ingress Protection:** Terminals IP 20

**Case Material:** Red Polyamide, 6/6

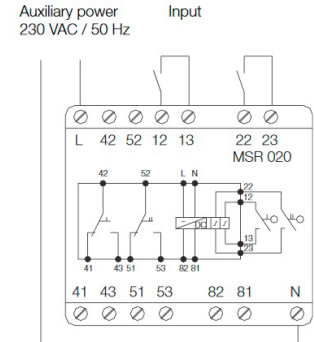
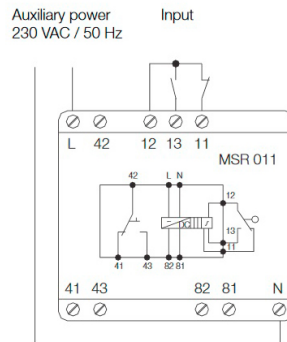
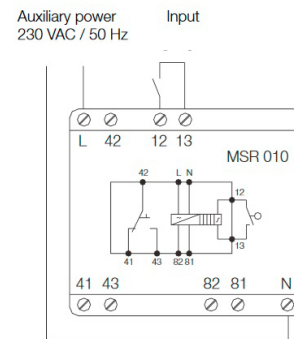
**Temperature Range:** 32...158 °F

**Mounting:** Standard DIN Rail 35 mm x 7.5 mm

**Dimensions (mm)**



**Wiring Diagrams**



**Order Details** (Example: **MSR-011 P03**)

Model	Relay Output
MSR-010..	1 SPDT Contact
MSR-020..	2 SPDT Contacts
MSR-011..	1 SPDT Latching Contact
Supply Voltages (Add Suffix to Part Number Above)	
	..P01 = 24 VDC
	..P02 = 24 VAC
	..P03 = 110 VAC