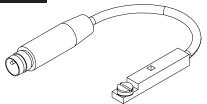
C086/A074

Drop-In Reed Sensor Part Numbers

REED	Wiring	
P8S-GRFLX	3m flying leads	
P8S-GRFTX	10m flying leads	
P8S-GRSHX	.2m lead with 8mm connector	
P8S-GRMHX	.2m lead with 12mm connector	
P8S-GRSCX	1m lead with 8mm connector	

REED SENSOR SPECIFICATIONS

Туре	Reed
Output Function	
Operating Voltage	10 - 120 VAC*
Continuous Current	100 mA max.
Response Sensitivity	2.5 mT min.
Switching Frequency	
Voltage Drop	3 V max.
Ripple	
Hysteresis	1.5 mm max.
Repeatability	
EMC	EN 60 947-5-2
Reverse Polarity Protection	Yes
Enclosure Rating	IP 67
Shock and Vibration Stress	30g, 11 ms, 10 to 55 Hz, 1 mm
Operating Temperature Range	25°C to +75°C (-13°F to 167°F)
Housing Material	PA 12, Black
Connector Cable	
Connector	PUR cable w/8 or 12 mm conn.



REED SENSOR - WIRING CONNECTION					
Flying Lead or 8 mm Connector					
2	Pin	Wire	Function		
	1	Brown	Operating Voltage		
	2	Black	Output signal		
	3	Blue	Not used		

12 mm Connector

2	Pin	Wire
	1	Brow
	2	White
4	3	Blue
	4	Black

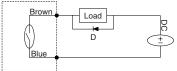
	Pin	Wire	Function
)1	1	Brown	Operating Voltage
/	2	White	Output signal
	3	Blue	Not used
	4	Black	Not used

*8mm connector rated for 75 VAC max.

Circuit for Switching Contact Protection (Inductive Loads)

(Required for proper operation 24V DC)





D: Diode: select a Diode with the breakdown voltage and current rating according to the load.

Typical Example—100 Volt, 1 Amp Diode CR: Relay coil (under 0.5W coil rating)

A Caution

- Use an ampmeter to test reed switch current. Testing devices such as incandescent light bulbs may subject the reed switch to high in-rush loads.
- NOTE: When checking an unpowered reed switch for continuity with a digital ohmmeter the resistance reading will change from infinity to a very large resistance (2 M ohm) when the switch is activated. This is due to the presence of a diode in the reed switch.
- Anti-magnetic shielding is recommended for reed switches exposed to high external RF or magnetic fields.

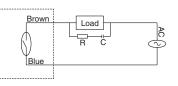
The magnetic field strength of the piston magnet is designed to operate with our switches. Other manufacturers' switches or sensors may not operate correctly in conjunction with these magnets.

(Recommended for longer life 125 VAC)

Put a resistor and capacitor in parallel with the load. Select the resistor and capacitor according to the load.

Typical Example:

- CR: Relay coil (under 2W coil rating) R: Resistor 1 K Ω 5 K Ω , 1/4 W
- С· Capacitor 0.1 µF, 600 V



- Use relay coils for reed switch contact protection.

- The operation of some 120 VAC PLC's (especially some older Allen-Bradley PLC's) can overload the reed switch. The switch may fail to release after the piston magnet has passed. This problem may be corrected by the placement of a 700 to 1K OHM resistor between the switch and the PLC input terminal. Consult the manufacturer of the PLC for appropriate circuit.
- Switches with long wire leads (greater than 15 feet) can cause capacitance build-up and sticking will result. Attach a resistor in series with the reed switch (the resistor should be installed as close as possible to the switch). The resistor should be selected such that R (ohms) >E/0.3.

