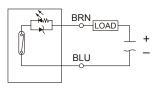
Caution for safety Sensor switches

Technical information

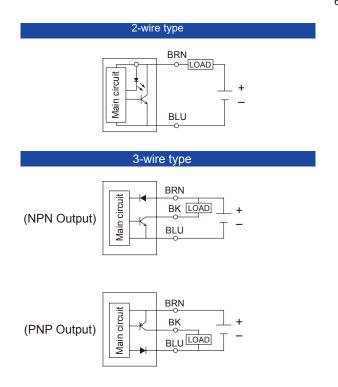
CAUTION

Do not exceed specification, permanent damage to the sensor may occur

- 1. The 2-wire type magnetic sensor must be connected in series with load. Or the sensor may malfunction.
- For reed switch type sensors, polarity must also be observed for the proper function of LED. Connect the brown wire in series with load to positive (+) and the blue wire to negative (-) of DC power soure. If the polarity is reversed, reed sensor remain functional but LED will remain in "OFF" state.



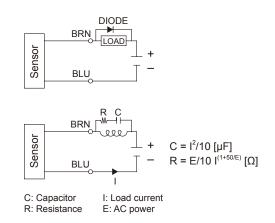
 For solid-state type sensors, connect brown wire to the positive (+) and the blue to the negative (-) of DC power source. For 3-wire type, the black wire must be connected to the load only. If the black wire is accidentally connected to the power source, sensor may malfunction.



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Florijn 10 b/c 5751 PC Deurne Netherlands 4. An external protection circuit may be required if the magnetic sensor is used with inductive load, such as relay or solenoid. For DC inductive load, attach an external diode parallel to the load and use R-C circuit parallel with AC inductive load as illustrated below.

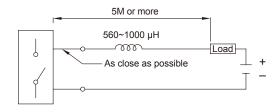
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- Keep sensors away form strong magnetic field to prevent malfunction.
- 6. Reed sensors are without protection circuit.

When a reed sensor is used with a capacitive load or with more than 5 meters lead wire, the life of the contact will be shortened. (especially when the switch is always ON) **Note**

Please install a surge suppressor within 1 meter or an inductor $(560~1000\mu H)$ in series of the sensor to prevent damage.



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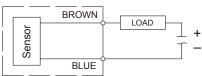
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Connection method

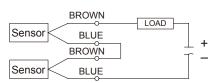
2 wire sensor connection

General connection

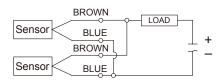




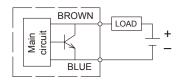
Series connection (AND)

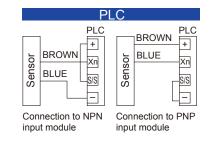


Parallel connection (OR)



Solid-state type





Note

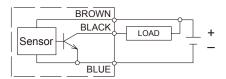
 When connecting 2-wire sensors in series (AND), don't exceed more than two sensors due to the internal voltage drop (Typical V drop=2.5~4V per switch). Excessive Voltage drop will cause the load fail to operate.

Note

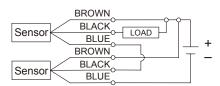
- 1. When connecting solid state 2-wire sensors in parallel (OR), current leakage will increase and cause improper load operation.
- When connecting two magnetic sensors in parallel (OR), possible concurrent operation will cause dim LED illumination due to lower current distribution.

3 wire NPN connection

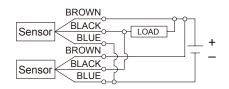
General connection



Series connection (AND)



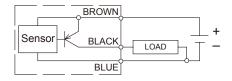
Parallel connection (OR)

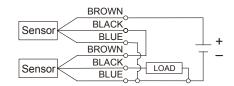


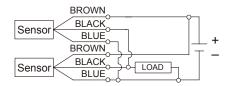
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3 wire PNP connection







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