Reed Switches are hermetically sealed contacts actuated by a magnetic field.

Reed Switches of the highest reliability are applied in our **level switches**, **flow switches** and their life expectancy can reach above two million operations. However when they are switching lamps, inductive or capacitive loads, this number may decrease.

Switching power of reed contact

It is important to consider that the power specified by an electrical load is often referred to the permanent working state.

OPERATING VOLTAGE	MAX. SWITCHING POWER	MAX. SWITCHING CURRENT
110Vac	20VA	0,2A
220Vac	20VA	0,1A
5Vdc	2,5W	0,5A
12Vdc	5W	0,5A
24Vdc	10W	0,5A

24Vac: Recommended use with Schneider coupling relay model RSLZVA1.

Relay coupler (110Vac-220Vac): Use 4K7 10W resistor in series.

For higher power, use an auxiliary relay or contactor as recommended below (power consumption table).

Siemens 3RT1015 Contactor
Initial: 31.7VA
Rated: 5.1VA

Weg CW07 Mini Contactor
Initial: 19.3VA
Rated: 5.5VA

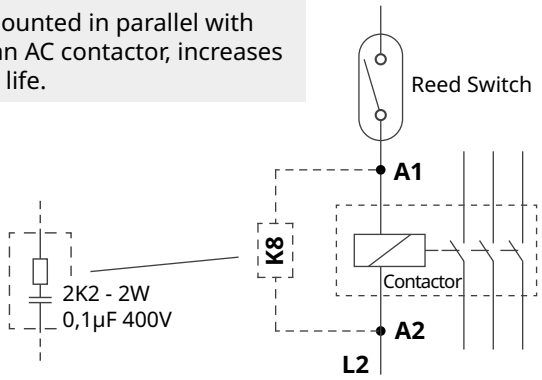
Schneider CA2KN Contactor
Initial: 30VA
Rated: 4.5VA

Note: Reed switches have reached over one million operations in tests with mini contactor and snubber filter K8.

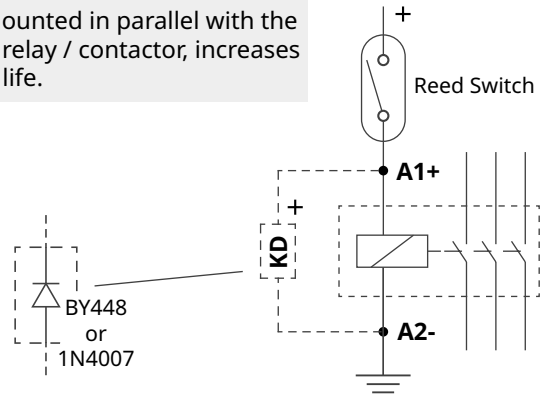
PROTECTION PROCEDURES BELOW DESCRIBED CAN IMPROVE THE REED SWITCH PERFORMANCE

• Switching inductive loads

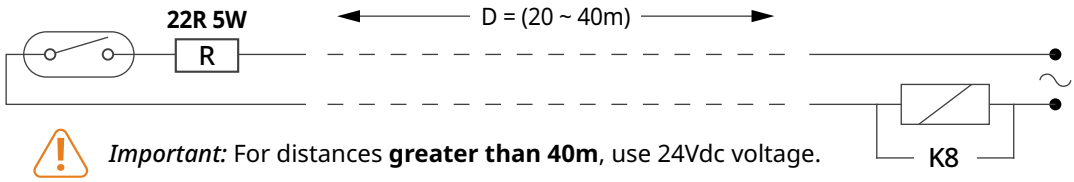
Filter K8 mounted in parallel with the coil of an AC contactor, increases the contact life.



Filter KD mounted in parallel with the coil of a DC relay / contactor, increases the contact life.



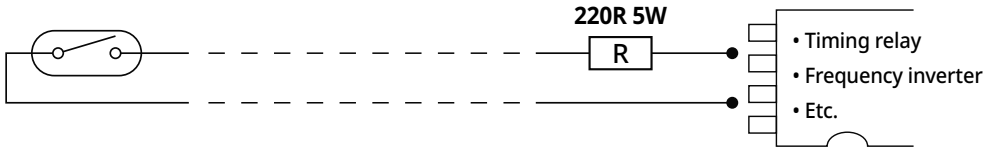
•Connecting the sensor to a contactor in long distances, use resistor 22R 5W



Important: For distances **greater than 40m**, use 24Vdc voltage.

This resistor dampens the peak voltage caused by the capacitance of cables and electronic equipment input.

• Connecting the sensor to an electronic equipment, use resistor 220R 5W



Important: For installation with **relay coupler**, use 4K7 10W resistor.