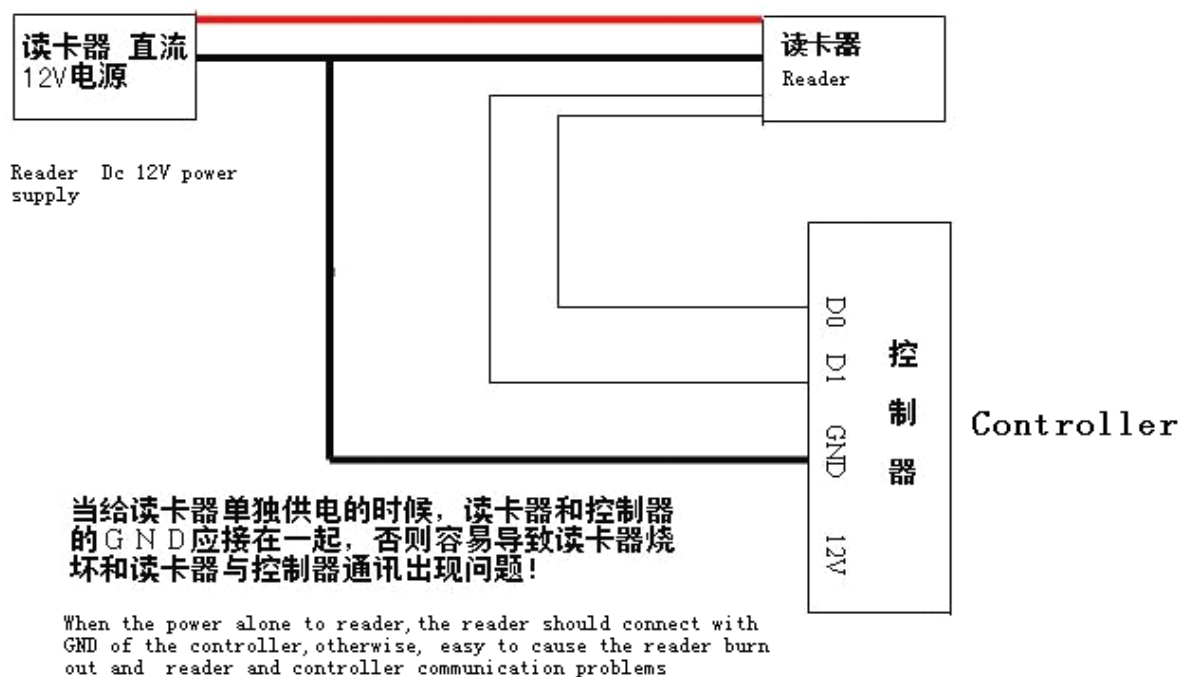


# Reader Construction Standard

## 1. wiring standard

1.1 Reader to controller connection with 8 core shielding suggestion twisted-pair (3 core spare), line diameter greater than 0.3 mm, controller to reader distance may not exceed 80 meters, suggested in 50 meters.

**1.2** When the power alone to reader, attention reader and controller of grounding pursues as follows: between



**1.3** Controller communication line (including 485/422, 232 and beat or other communication lines) suggest adopts internationally 8 core shielding twisted-pair cable, which can effectively prevent and shielding interference. Line diameter greater than 0.3 mm bus no more than 1,200 suggested length in 1000 meters of less than, if longer please choose other special 485/232 converter or add Repeaters, and choose the more thick communication cable.

Controller GND 485- 485+ corresponding connection 485 switch GND TD (A) TD (B), 485 reader GND (power -) and controller GND must be connected together

**1.4** Reading head equipment shall not go electricity cut or strong power lines. If environmental limited to parallel go line, isto stay away from 50CM above.

## **2. Safety Caution**

**2.1** The reader has the function of anti-static and Lightning prevention design, but please ensure The good grounding of the power and the Lightning protection of 485 line. of reader ,to keep the circuit not being damaged by the static, the lightning, and other equipment leakage,so that the reader can working stably for a long time.

**2.2** Please do not charged wiring, or not charged welding operation, when welding connection you should be pulled out the power of the corresponding supply.

**2.3** The reader can directly plugin UPS, ensure after blackout the system still can continue to work.

**2.4** avoid using reader power and other large current work equipment in the same power, reader and all external equipment into the thrum of the controller can't pull out too long,lest exposed and short-circuited phenomenon.