

For your safety

The FRD rotary limit switches comply with the following Directives and Norms:

2014/35/UE	Low voltage Directive
2014/35/UE	Machine Directive
2011/65/UE	RoHS Directive
CEI EN 60947-1	Low-voltage switchgears and control gears
CEI EN 60947-5-1	Control circuit devices
CEI EN 60204-1	Safety of machinery
CEI EN 60529	Protection degrees



FRD limit switch drivers are guaranteed by our EC Certificate of Conformity, available on request, stating that such product was created by RAVIOLI in accordance to defined and recognized Safety Regulations and in line with the Quality standards of our ISO 9001:2015 Quality System Certificate.

Respect for people and environment

Ravioli frames its activity on products that respect people, according to the standards of our Code of Ethical Behaviour. Our products were devised to improve the working safety of people handling them. Moreover, Ravioli products are free from harmful substances, for the preservation of the environment.

Installation and maintenance requirements

INSTALLATION AND WIRING

The limit switch must be installed by qualified personnel, sticking to the current safety regulations.

Before wiring, the equipment power supply must be mandatorily turned off.

Correct installation requires working temperatures ranging from -20° to +60°C.

The limit switch must not be used in potentially explosive, corrosive or high sodium chloride concentration areas.

Acid, oil and solvents may cause the device impairment and is therefore not recommended to use oils or greases to lubricate any part of it. The wiring installation must be performed and finally tested according to the ruling norms, in conformity with the electrical wiring diagram provided with the equipment. Once the installation is over, it is mandatory to check both the limit switch and the connected equipment for correct operation.

Limit switch installation procedures:

- Remove the cover (1) by loosening the fixing screws;
- Connect the limit switch shaft to the external drive element by using a flexible joint (6), the male connection (4) or the cog wheels (5). These actions should be undertaken in case of misalignment between the shaft and the equipment;
- Fix firmly the limit switch by using the baseplates or the optional flange (7) to prevent abnormal vibrations.

Wiring operations:

- a) remove the cover and the cable-gland entry;
- b) place the multipolar cable into the special cable entry;
- c) strip the cable for electrical connection to the microswitches;
- d) set the electrical connections by tightening the microswitch screws to 0,5 Nm max torque;
- e) tighten the cable in the cable-gland, checking its tightness;
- f) reposition the cable-gland entry in its place;
- g) in case a KST position sensor is adopted, introduce the multipolar cable in the cable gland, then properly connect the wires and check their tightness. After that, tape and lock the cable in the cable-gland.
- h) set the position of the cams by adjusting the regulation screws for fine adjustment;
- i) close the cover and tighten the screws at 1 Nm max torque

MAINTENANCE

Maintenance procedures:

- check the cover screws tightness (1);
- check the multipolar cable stability in the cable-gland;
- check the wiring conditions;
- check the inner seal integrity inside the cover, if any;
- check the driving system and alignment integrity.
- check the limit-switch tightness;
- check the case integrity.

RAVIOLI S.p.a. declines all liabilities for any claimed damages originating from unprofessional installation or improper use of the product

