

## Rotary limit switches

*Rotary limit switches are used to control the movement of industrial machinery when in need of measuring the movement on the basis of the rotation angle and/or of the number of shaft revolutions.*



Rotary limit switches operate in difficult thermal conditions (low or high operating temperatures) with great thermal shifts between night and day, and they are subject to a variety of weather conditions (water, dust, UV rays and salt). They therefore need components with a high degree of protection against weather effects, resistance to extreme temperatures, high mechanical and electrical durability and resistance, accuracy in control. All components must be precise, reliable and safe to ensure good handling control, guarantee maximum operating safety, prevent personal injury and damage to objects, and prevent collisions and impact when a number of machines of the same type or similar are present in the same area.

Derzmann providing different series of rotary limit switches, rotary limit switches are used in particular in industrial and construction lifting plants to control gantry cranes, track cranes, jib cranes, wall-mounted jib cranes, tower cranes and winches for construction sites; in the automation industry to command and control systems to manage machines and processes, thus reducing the need for human intervention; in stage technology to control the equipment used to move stage sets, curtains etc.; on wind turbines for managing and controlling the pitch angle of the blades (pitch control) and the position of the nacelle (yaw control).

Contact us to configure rotary limit switch by email: [info@derzmann-tech.de](mailto:info@derzmann-tech.de)

## Technical Data

### General specifications

|                                    |   |
|------------------------------------|---|
| Conformity to Community Directives | 2014/35/UE<br>2006/42/CE  |
| Conformity to Standards            | EN 60204-1 EN 60947-1 EN 60204-32<br>EN 60947-5-1 EN 60529<br>CAN/CSA-C22.2 No 14-13<br>IEC 61508:2010 Part 2-4-6-7<br>UL 508 |
| Storage ambient temperature        | -40°C/+80°C   |
| Operational ambient temperature    | -40°C/+80°C   |
| Protection degree                  | IP42, IP65 or IP66/IP67/IP69K   |
| NEMA Protection degree             | Type3; Type 4X*   |
| Insulation category                | Class I; Class II   |
| Maximum rotation speed             | 800 rev./min via. revolution ratios   |
| Cable entry                        | Cable clamp M16; M20  |
| Markings and homologations         | CE EAC cURus  |
| Environment altitude               | 4000m   |
| Environment relative Humidity      | 95%   |
| Anticorrosion                      | 5C  |

### Specifications of the microswitches

|                           |   |
|---------------------------|---|
| Utilisation category      | AC 15 / 250 Vac / 3 A max.<br>DC 13 / 60 Vdc / 0.5 A max.                         |
| Rated operational current | 3 A   |
| Rated operational voltage | 250 Vac   |
| Rated insulation voltage  | 300 Vac   |
| Mechanical life           | 1-10 millian operations   |
| Connections               | Faston taps; screw-type terminals;<br>screw-type terminals with self-lifting pads |

