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.

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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

Technical Data

General specifications

Conformity to Community Directives	2014/35/UE 2006/42/CE
Conformity to Standards	EN 60204-1 EN 60947-1 EN 60204-32 EN 60947-5-1 EN 60529 CAN/CSA-C22.2 No 14-13 IEC 61508:2010 Part 2-4-6-7 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. 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; screw-type terminals with self-lifting pads