



New version 2014

OPTIONS

(max. 1).

and dust

MATERIALS

FOX ROTARY LIMIT SWITCH

Fox can be fitted with different combinations of actuators

and motion detectors: sets of cams and microswitches

(max. 5), potentiometers or encoders (max. 1), absolute encoder Yankee 1 for set of cams and microswitches

It is possible to fit together sets of cams and microswitches,

potentiometers, encoder and Yankee 1, thus creating a

The limit switch is available with a flange for direct coupling

Fox features transmission and gear driving shafts made

of stainless steel AISI 430F or AISI 303, worm gear

transmission shaft rotating on ball bearings, self-lubricating

techno-polymer gears and driving bushes, techno-polymer

base and cover. All techno-polymers used for the enclosure

are wear resistant and protect the equipment against water

to the motor. Different labels and colors are also available.

device featuring redundancy and diversity.

Fox is a device 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. Fox is made up by a gearmotor which transfers the movement to the cams and to the other movement detection devices placed inside it through a primary input reduction step (worm gear and helical toothed gear) and one or more secondary output steps (pairs of straight toothed gears).

Fox is used on wind turbines to control the position of the nacelle or the pitch angle of the blades. The motor that controls the rotation of a wind turbine on the yaw axis (or of the blade around its longitudinal axis) transfers the movement to the limit switch. A rotary encoder reads the rotation of the shaft, and its pulses are sent to a PLC which controls the position of the nacelle or of the blade. The movement of the shaft is also transferred, through a gearmotor, to a series of cam switches: the appropriate setting of the actuating point of the cams can signal up to four critical positions of the movement of the nacelle or of the blade.

FEATURES

Revolution ratios, ranging from 1:3 to 1:2870, result from the combination of different secondary output steps. Each cam can be set with great accuracy thanks to the cam adjusting screws. The auxiliary switches are of a positive opening type, thus suitable for safety functions.

INDUSTRIAL LIFTING



CONSTRUCTION LIFTING



INDUSTRIAL AUTOMATION





TECHNOLOGY

WIND ENERGY

20102014-01

BUSINESS PARTNER





POSSIBLE ASSEMBLIES

With set of cams, Yankee 1 absolute encoder





Yankee 1 absolute encoder



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