

Drilling Rig OAC Gantry Cranes

SERIES 51 LIMIT SWITCHES

PROBLEM

A reliable limit switch solution was needed for use on offline activity cranes (OACs) installed on oil and gas drilling rigs. Positioned away from the paths of the platform's heavy lift cranes to avoid interference, OACs lift and rack drill pipe, tubing and casing. The gantry crane's trolley system combines lifting and lateral motion to save time and increase productivity. The limit switches provide safe emergency stopping of the crane's hook as it raises and lowers during operation.

SOLUTION

Stromag Series 51 limit switches were the ideal choice to meet the challenging crane application requirements. These geared cam limit switches are universal, mechanical switchgear that can map a wide range of shaft rotations to the angular displacements of the installed cam discs. They are often used where angles or distances cannot be limited directly by switchgear, but only indirectly on the basis of the measured angle of rotation such as limiting the hook lift of a crane hoist.

Units allow for easy to installation and adjustment. IP66-rated reinforced polycarbonate housings can withstand the harsh offshore drilling rig deck environments.



HIGHLIGHTS

- Geared Cam Limit Switches
- Patented planetary gears
- Patented block adjustments
- Large cam disc diameter
- Easy to install and adjust
- IP66 rated housing

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