

Corrigan Instrumentation Ltd.

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Security screening system

■ The CAN-X-SCAN Mark II X-ray security screening system is designed to satisfy the critical security needs of a variety of facilities including airport concourses. The unit's tunnel opening is 71.12 cm (28 in.) wide by 49.53 cm (19 1/4 in.) high and can be used to screen handbags, briefcases, lunch pails, etc., as well as larger items such as standard-size suitcases. It is equipped with an efficient 160 KVCP X-ray generator operating at 140 KVCP. Because the CAN-X-SCAN uses the well-known, patented silicon diode array sensor, the system is safe for photographic film, even the new high-speed films.

Metal/weapon detection system

The Corrigan MWD-3 walk-through metal/weapon detector features audible and visual alarms, as well as a new circuit that counteracts external electrical interference. Operating the unit is straightforward. It involves setting the controls located within a lockable, tamperproof console to the degree of sensitivity desired, then monitoring the audio and visual alarms.

Switch selectable programming makes three distinct security modes available — Multiple Gate Signal Processing, which allows multiple gates to be set up close together without interfering with one another; Security Level I (Higher Discrimination), which is used for detecting large masses of metal (such as guns) while screening out small items such as keys and coins; and Security Level II (Higher Sensitivity), which detects smaller metallic objects such as knives, as well as the larger items, while allowing coins, keys, belt buckles, etc. to pass.

Company Profile

Corrigan Instrumentation Ltd. is a dominant manufacturer of X-ray and metal detection security screening equipment in Canada. The company's products are widely used at Canadian airports and are also found in defence establishments, correctional facilities and other settings.

Committed to producing state-of-the-art technology, Corrigan employs a highly skilled staff of engineers and technicians, for industrial research and development. The company's leading-edge technology is produced either in-house or through industrial co-operation agreements with other organizations.

Crouse-Hinds Lighting

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Elevated approach lighting system

■ The Crouse-Hinds Lighting PAR 56 elevated approach lights are designed to meet specifications for elevated day and night beacons and are aimed up the glide path in various approach pattern configurations. The PAR 56 high-intensity approach light is available for direct mounting to standard 5 cm (2 in.) breakable couplings or pipe.

Runway end identifier lighting system

The company's CD-5 runway end identifier lighting system (REILS) is intended to provide early and positive identification of the runway threshold. Visibility is outstanding in such conditions as fog, high-background brightness and extraneous light. The system consists of two high-power xenon flash lamps located 46 m (150 ft.) beyond the runway end, one positioned on each side of the runway facing up the glide path and toed outwards slightly (normally 15°). The system incorporates all solid-state electronic components and will operate from 240 or 120 V, 60 or 50 Hz, single phase. An optional fail-safe feature shuts down the entire system when either or both of the flash lamps cease to flash. The REILS control incorporates pull-out circuit boards (cards) which can be easily replaced should a malfunction occur. Superior lighting arrestors are provided for each system to eliminate failure due to cloud discharges.

Inset lighting

The Crouse-Hinds inset lights are designed to guide aircraft to touchdown and rollout on runways and taxiways, particularly in adverse weather conditions. They provide narrow, low beams of high intensity light from quartz halogen lamps located below the level of the runway. The light from a lamp is collected into a narrow beam by precision optics and is refracted through a glass prism, exiting at an angle so as to be visible to pilots in the touchdown and centreline zones and taxiways.

High intensity runway lighting

The CI high intensity runway lights are designed to meet specifications for runway edge and threshold lighting. These bi-directional runway marker lights come complete with a one-piece clear, heat-resistant globe that directs light in two opposite main beams. Colours of yellow, red, green and blue are obtained by 180° or 360° plain glass filters.

Medium intensity lighting

The MI medium intensity marker lights are designed to meet specifications for taxiway edge lighting (blue); medium intensity runway lighting (clear); and heliport lighting (yellow). The heat resistant fresnel globes are available in clear, red, yellow, green, blue, and in 180° dual colour combinations such as red-green for runway end/threshold lighting.

Low intensity lighting

Crouse-Hinds offers low intensity approach, tower and obstruction marker lighting. The obstruction marker lights, with a red lens, mark navigational boundaries and obstructions up to 46 m (150 ft.) high. Obstruction marker lights are used with a yellow lens for low intensity approach patterns to delineate the extended centreline of the runway. Double units use blue lenses to identify high-speed taxiway turn-offs on some airfield installations.

Holding position edge lighting

The Crouse-Hinds holding position edge light is equipped with an alternating flashing yellow beam indicator light to identify taxiway holding position lines to taxiing aircraft.

Crouse-Hinds also offers a visual approach slope indicator system (VASIS) and a precision approach path indicator system (PAPI). The VASIS is complete with four 200-W PAR 64 lamps, with red/white filters. Crouse-Hinds also manufactures a sequenced flashing approach lighting system which is complete with a master timer, 21 flasher heads, 21 flasher lamps, and 21 power supplies. Other Crouse-Hinds products include distance-to-go runway marker signs, illuminated wind cones, illuminated taxiway guidance signs, rotating beacons with single or double drums, and hazard beacons.

Company Profile

Crouse-Hinds Lighting, a member of the Cooper Lighting Group, is an industry leader in fluorescent, low-voltage and architectural lighting. With over 60 years of experience, Crouse-Hinds has supplied lighting products for many airports to guide aircraft and passengers to safe approaches and departures. Crouse-Hinds' airport lighting is distributed by Wesco, an electrical products distributor with over 40 locations across Canada. The company has production facilities located in Granby, Quebec, and Mississauga, Ontario. Crouse-Hinds can offer complete airport lighting including approach systems, runway threshold/end systems, runway and taxiway centreline and edge systems, runway and taxiway signs, and apron floodlights.