

ERMO 482X3PRO-AIR

/// NEW! ///

MICROWAVE BARRIER FOR AIRPORT
GROUND TRAFFIC CONTROL



Also
IP & PoE

EXTREME SECURITY

V 1.0

CIAS®

Using microwave technology, we have been protecting for years extremely sensitive sites worldwide in the harshest weather conditions detecting even the most difficult intrusions (like a man crawling or rolling).
How not to take up the challenge to detect moving aircraft along taxiways for anticollision purposes?
In airports, the correct management of the access routes to the main runways, with automation of the Lead-On lights after a GO command to a Stop-Bar, is essential to prevent unwanted collisions and save precious lives, especially when the weather conditions are critical, decreasing drastically the visibility from the control tower.
Many International airports are already equipped with CIAS technologies and many others are about to adopt it - not only at safety purposes to support ground air traffic control, but also for security reasons, in perimeter protection to prevent unwanted intrusions.



The new **ERMO 482X3PRO-AIR** is a real lifesaving system to prevent the risk of collision between aircraft. Starting from our experience in the field of ground air traffic control support, we have developed a special version of the well-known Ermo 482X pro 3.0 barrier. The new **ERMO 482X3PRO-AIR** has been renewed both in its signal analysis and in the hardware and made even more immune to Radio Frequency Interference normally present in airport environments. The 24 GHz antenna is capable of generating a MW beam very coherent and it's managed by the sophisticated signal analysis based on FUZZY logic rules. This match leads to remarkable increase in the capability to detect the real presence of aircraft or other vehicles on the runways, almost totally removing the effect of the abundant existing interferences and the subsequent disruptions of detection.

AUTOMATIC ENVIRONMENT ADJUSTMENT

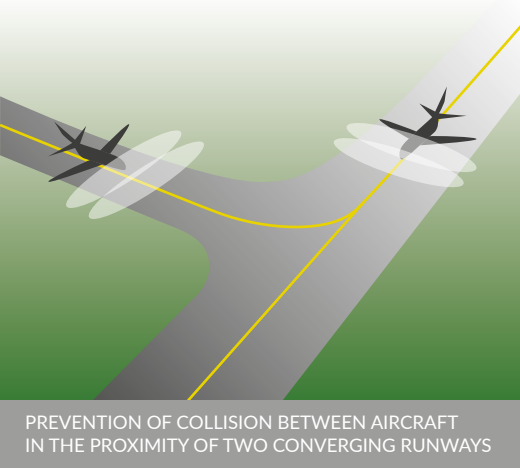
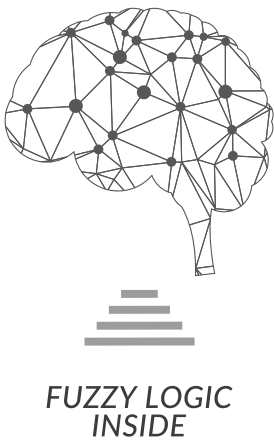
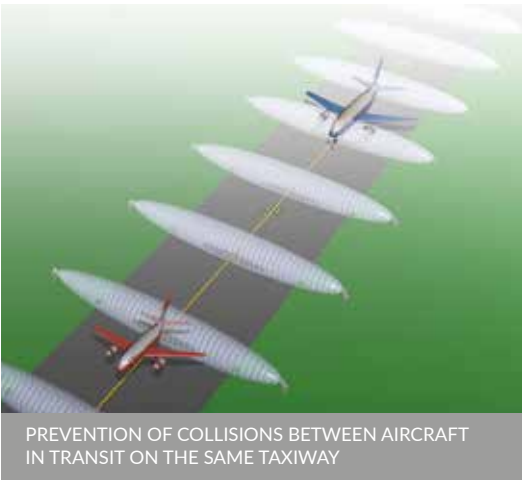
Unaffected by the harshest climate conditions, such as fog, heavy rains, and sand storms, Ermo482XPro-AIR has an operational temperature encompassing the vast range between -35°C and +70°C which makes it suitable for installation everywhere. Furthermore, temperature and environmental noises are automatically and continuously checked to discover possible faults to safeguard the best detection performance.



FBM - FUZZY BEHAVIOUR MODEL FOR DIGITAL ANALYSIS

ERMO 482X3PRO-AIR monitors the signal, comparing it with Fuzzy Behaviour Models (FBM), i.e. using algorithms based on Fuzzy logic, to decide if the signal was created by a real intruder or some other factor. The size, shape, and rate of change of the signal are continuously measured and compared with typically stored signals.

The sensor can detect small airplanes, trucks, cars, and persons passing by the taxiways in order to prevent collisions or accidents. Every event that generates an alarm or a significant change in the received signal is date/time stamped and stored in memory and can be analyzed in real-time and/or later.



IP & POE READY

By installing the IP-Doorway interface inside the barrier's head, **ERMO 482XPRO-AIR** becomes an "IP-ready" detector, for integration with major CCTV brands over IP. With an ethernet CAT5E FTP cable, it is possible to power the barrier while also remotely managing the alarm data and configuration. With an ethernet CAT5E FTP cable, it's possible to power the barrier while also remotely managing the alarm data and configuration. It's immediately clear that there is a considerable economic advantage for the installer as almost everything can be done easily using a single cable only. The product can be powered using the PoE 802.3AF standard or by using a dc voltage of 13.8 Vdc, as typical in intruder detection systems. Since IP-Doorway handles the TCP; UDP; HTTP; DHCP; ICMP; ARP; RARP protocols, it suits many different types of data management.



Also on your mobile device

EASY SET-UP WITH CIAS TUNER

ERMO 482X3PRO-AIR can now be set up with the web-based & mobile-friendly calibration tool CIAS Tuner's. It's still compatible with WaveTest2 SW.

OTHER USES FOR INTRUDER DETECTION

BARRIER FOR TEMPORARY PROTECTION

Perfect for the protection of vehicles or goods that quickly need protection for a limited period of time. The product has been designed to be very easy to use even for non-technical personnel.



TURNKEY SET READY TO USE



AIRCRAFT PARKING APPLICATION

PROTECTION IN ATEX ENVIRONMENT

For environments requiring special safety precaution, anti-explosion version of the barrier is available, provided in special boxes certified CESA 01 ATEX 036.



EXPLOSION-PROOF SPECIAL CASE

SPECIFICATIONS

TECHNOLOGY	digital microwave barrier
RANGE	from 5m to 250m
FREQUENCY AND CERTIFICATION	k-band 24Ghz CE+FCC+IC certified
MODULATION CHANNELS	16 crystal controlled
PROBABILITY OF DETECTION	99,99%
TEMPERATURE	-35 °C / +70 °C
POWER SUPPLY	19Vac - 13.8Vdc, 24Vdc or PoE 802.3AF (using IP-Doorway)
ALIGNMENT	incorporated audio-visual instrument with self-check
TUNING	tuning and remote maintenance through software CIAS-Tuner or WAVE-TEST2
IP GRADE	IP66
OUTPUTS	alarm, fault, tamper managed via relays or RS-485. Over IP output available through IP-Doorway

CIAS RESERVES THE RIGHT TO CHANGE THE SPECIFICATIONS DESCRIBED IN THIS BROCHURE AT ANY TIME WITHOUT PRIOR NOTICE.



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