Proximity Alert System (PAS)

SAFETY

Proximity Detection and Collision Avoidance solution for above and below ground operations

PBE Group designed and manufactured the tag-based Proximity Alert System (PAS) to enhance workplace safety by reducing the risk of collision through asset and personnel detection and warning.

Alerting drivers to the presence of personnel, vehicles, obstacles and user defined geofences.

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PAS is a complete solution, suitable for all vehicle types for above and below ground operation. The system provides local driver and personnel indications as well as remote real time vehicle monitoring.

PAS also provide extensive user definable reporting and data analysis capabilities through its own custom software package by recording all events. PAS has an optional integrated issuing centre that provides automated site entry/exit monitoring and control for approved personnel and vehicles.

Using a combination of radar, electromagnetics, RFID, and GPS, PAS provides the most accurate and flexible Proximity Detection and Collision Avoidance solution available for the mining, tunnelling and construction industries. ◆

TECHNOLOGIES
4 technologies (radar, electromagnetics, RFID and GPS) providing accuracies of 30cm and ranges of 150m

VEHICLES
Lightweight (PAS-Z), ruggedised (PAS-ZR) and explosive proof (PAS-XP) versions for all vehicle types in all environments

ENVIRONMENTS
Above and below ground seamless operation, including coal mining (explosion proof approved)

MARKETS
Proven in mining, tunnelling, construction, forestry, ports and other industrial applications

FLEXIBLE
User defined range and detection of vehicles, personnel, obstacles and assets

VEHICLE INTEGRATION
PAS has multiple outputs and CANBUS functionality for vehicle integration and control

APPROVED
PAS complies with all relevant international standards and is Level 9 EMESRT certified.

REMOTE MONITORING
Real time remote monitoring and control/configuration using a 3G network interface and PBE's proprietary control and monitoring software, VANTAGE

DISPLAY
Optional tablet-based touch screen for radar type display

OBSTACLE PROTECTION
The self-contained PAS-O allows protection of obstacles

NO FALSE ALARMS
'Safe Nodes', to define areas for none detection and Dynamic Projected Detection Angle (DPDA) to allow trucks to pass with none detection if required

ACCESS CONTROL
Issuing software and entry/exit control solution, with integration to PBE tracking systems

DATA ANALYSIS
Powerful reporting capability providing bar charts, heat maps and display of all recorded interactions

Benefits

- Self-contained design and minimal footprint allows simplistic and quick installation and ease of maintenance

- Easy and convenient local configuration or user friendly software for future download

- Provides accurate range and direction for all vehicles, personnel, obstacles and assets

- Provides customisable audible and visual alarms

- All interactions are logged with extensive reporting capability

- Adaptable for both electrical and diesel trackless mobile machines

- Suitable for explosion proof mining environments (PAS-XP)

About Us

PBE Group ("PBE") provide an adaptive and flexible integrated solution where a reliance on safety and productivity is essential. PBE is a true global systems provider for the mining, tunnelling, construction and associated markets. Our specialised engineering team integrates our industry specific manufactured products and best in class 3rd party products to ensure a sophisticated, robust and commercially viable solution. Our growth in international markets is based on the key verticals of Technology, Power and Service Delivery – fundamental in any industrial project. Our experience in confined space and underground construction has enabled PBE to complete over 850 projects in more than 60 countries with 320 staff and 18 regional offices. ◆

Disclaimer

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