



***AMR* PEMCO**

PROVEN PARTNER IN TECHNOLOGY

WWW.AMRPEMCO.COM

Corporate Overview



- AMR PEMCO and sister companies operate to provide electronic monitoring, controls, communications, tracking, and collision avoidance systems as well as industrial buildings, circuit breakers, dry-type transformers, and automation integration.
- Markets served include global mining, aggregates, tunneling, power generation, utilities, transit, nuclear, water/wastewater, and general industry.
- Primary sales in the U.S., Canada, Mexico, India, South Africa, and South America with sales in many other countries around the world.

AMR est. 1975



ERM est. 1979



CMS est. 1995



PEMCO est. 1960 - Acquired in 2016



Delivering Projects Worldwide



Codes and Certifications



Experience With Popular Brands

AMR
PEMCO

AB **Allen-Bradley**

ROSEMOUNT

ABB



SIEMENS

Ignition
by inductive automation

EMERSON

Schneider
Electric



SOLAHD
Distributed by Gross Automation

HighTide
TECHNOLOGIES

SQUARE
by Schneider Electric

KROHNE

AUTOMATIONDIRECT.com



RACO
SINCE 1948
REMOTE ALARMS AND CONTROLS

EH
Endress+Hauser

ICONICS
Visualize Your Enterprise™

Wonderware
invensys

ThermoFisher
SCIENTIFIC

SENSAPHONE
REMOTE MONITORING SOLUTIONS



GE Infrastructure
Water & Process Technologies



Rockwell
Automation

Clients and Customers



NORTHROP GRUMMAN

Balfour Beatty



TMEiC



**Rockwell
Automation**



Core Capabilities



- Industrial & control buildings (ICB) and equipment enclosures including HVAC systems and design, installation and integration of all types of electrical equipment
- Complete skid mounted systems including switchgear, AC & DC Drives, transformers and control systems
- Complete skid mounted power centers and substations for harsh duty applications
- Custom designed dry type transformers up to 4 MVA and 25kV class.
- Specialty magnetics for custom applications including reactors, inductors, and rectifier duty transformers
- UL and CSA certified control panels with custom enclosure design and fabrication
- 3D modeling capabilities for all enclosures and bus assemblies.
- Electrical, mechanical, and transformer engineering



COLLISION AVOIDANCE SYSTEM

AMR PEMCO's Collision Avoidance Protection system (CAPS) alerts mobile equipment operators of nearby personnel and other machines. By detecting tags, or other CAPS units that enter the user-defined protection zones around the machine, CAPS reduces the risk of crushing and pinning accidents in underground mining and tunneling environments as well as vehicle-to-vehicle or vehicle-to-person collisions in surface operations.

When the tagged asset enters either the warning or alarm zones, the system then activates the open collector outputs. Depending on the unit's configuration, these outputs may be used for audible, visual, and other alert response systems to warn the equipment operator of the potentially dangerous situation. They may also be optionally connected directly to the equipment's braking system.



C.A.P.S Features

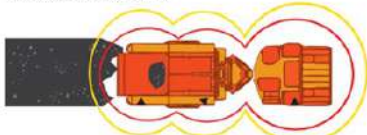


- Seamless operation without any interaction required by the machine operator
- Installed on most types of underground or surface machinery and vehicles
- Optional data logging of all tagged assets in the vicinity of the CAPS transmitter with on-board Micro SD memory card. Useful for accident investigation, productivity efficiency, or hazard analysis.
- Download recorded data wirelessly via AMR's Mine Net™ Mesh, other Wi-Fi network, or integrated USB connection
- User-defined detection distance specific to each vehicle for both the Warning and Alarm zones
- Detection fields may be expanded around the machine to cover blind spots by adding additional units linked together for overlapping coverage
- CAPS can remain activated while equipment is turned off to provide collision avoidance
- Transmitter input power of 6-60 volts DC
- Three open collector outputs for a variety of alert configurations including audible or visual alarms and optional connection to the vehicle's brake system or other safety device
- TAGs with variable battery life dependent on communication rate

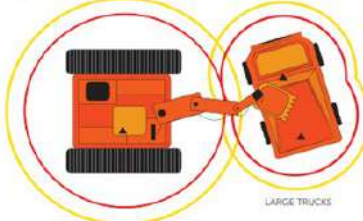


ADJUSTABLE PROTECTION ZONES

UNDERGROUND MATERIAL HAULERS



EXCAVATORS



LARGE TRUCKS

FOUR WHEEL FORKLIFT



BULLDOZERS

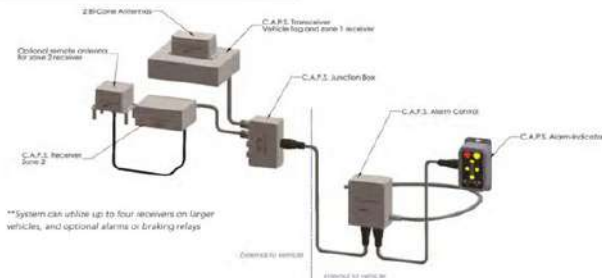


PICKUP TRUCKS



**Denotes approximate placement of C.A.P.S. receivers
**Units can be configured with one or two detection zones

MODULAR HARDWARE



FOUR WHEEL FORKLIFT



BULLDOZERS



PICKUP TRUCKS



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