COLLISION AVOIDANCE

Sigma Delta Technologies has a simple system that consists of a wireless link between a vehicle and either a fixed point or another vehicle or a pedestrian(s).

In the case of a fixed point, the moving vehicle, eg a forklift, moves around with a transmitter attached to it. The transmitter is constantly transmitting a coded signal. When it gets within 'range' of the fixed point the receiver at the fixed point will receive the coded signal and set off an alarm – strobe, siren, etc. This alarm will continue while the vehicle is within range. The receiver unit is powered by the supplied 240VAC plug pack. The range is set by programming the transmitter and trimming the antenna to suit. The transmitter is powered by 12VDC from the vehicle.

The system with a pedestrian works in a similar way. The vehicle has the receiver and an audible alarm to warn then whenever a pedestrian is within range. The pedestrian carries a transmitter that is battery powered. It can be recharged and it will last for 2 days between charges. The range is determined in the same way as above. The transmitter is normally carried on the belt.

When it is a vehicle to vehicle situation the receiver with be with an alarm. It can also be set up so that each vehicle is alarmed. Range is determined in a similar way.

Sigma Delta Technologies is also developing a system to monitor exclusion zones where forklifts, trucks, and pedestrians may interact at times. This system can be used where trucks are being loaded or unloaded. It will limit access to the exclusion zone (EZ) so that there is not allowed to be pedestrians when a vehicle is moving within the EZ. It will use Infrared barriers and wireless technologies. The EZ can be of any size or shape.