

VMS and VMS Vision Technical Specification

Accidents are caused by the unexpected, and when a machine is reversing on a busy site, the unexpected can happen so quickly that only automatic braking can prevent a collision.

VMS uses the Ogden Radar to monitor the area immediately behind the machine, and then applies the brakes automatically if a hazard appears in that area. **VMS Vision** is **VMS** with an additional pre-warning drawing the driver's attention to the CCTV monitor, to help him stop the machine before the automatic braking cuts in. It also switches on the CCTV in forward and neutral gear if anything is approaching the rear of the machine.



Installation is by expert fitters with many years of experience and liaison with machine manufacturers, all ensure that the **VMS** installation will not affect the machine. The automatic braking acts on the service brake line and pressures are set at 50% of the service brake maximum, to give smooth but rapid stopping. Signals are read from the transmission to ensure a fail safe check of the gear selected and any error in the signals from the machine or the radar generates an immediate warning to the driver.

Operation of the system is simple. If automatic braking occurs, then selecting neutral and operating the foot brake will provide immediate release. The size of the protection zone is pre-programmed and three options are selectable by the driver. Overriding the automatic braking can be arranged in controlled circumstances to suit the application.



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Specification

	Height	Width	Depth
Radar	175 mm	155 mm	55 mm
Control unit	240 mm	155 mm	100 mm
Display unit	160 mm	120 mm	30 mm
Supply voltage	10 to 15 volts or 16 to 32 volts DC		Current 3 amp max

Failsafe features

Cross checking on transmission signals.
Fault checking on serial links (display and radar to control unit)
Internal fault checking in all units
Pressure check on automatic brake function

Radar measurement technique

FM/CW with upsweep and down-sweep comparison for Doppler speed analysis.

Radio frequency 13.4 GHz to 14.0 GHz In accordance with MPT 1349



For further information...