

# Electronic overspeed protection

The Electronic Overspeed Protection supplements the mechanical overspeed device to ensure efficient engine speed monitoring and engine shutdown in case of overspeed.

Service Letter SL2020-702 published in 2020 emphasized that the overspeed system must be tested according to classification society rules and the safety precautions in the instruction manual. But from time to time, Everllence PrimeServ still sees engines of the types L23/30H and L/V28/32 at risk of severe damage due to overspeed. These cases are the result of lack of maintenance, testing, and adjustment of the mechanical overspeed device.

Everllence PrimeServ recommends that you install the Electronic Overspeed Protection to prevent the risk of uncontrolled engine overspeed. The Electronic Overspeed Protection reduces the risk of damage to valve gear, pistons, connecting rod and, in the worst case, replacement of frame and crankshaft.

## Operational benefits

The Electronic Overspeed Protection is an additional precaution to provide enhanced reliability of the safety shutdown mechanism, minimizing the risk of a total breakdown due to overspeed. The electronic system can replace the existing mechanical overspeed device, or you can keep the existing overspeed device and install the electronic system as an additional and more reliable safety measure.

## Specification

The electrical cabinet is installed either on the engine, outside the charge air space of the engine frame, or externally on a bulkhead or other structure close to the engine.

Cables are routed separately from the control cabinet; one to the sensor and one to the solenoid valve, as these have separate locations on the engine. The control unit is powered by the existing "engine automatic system" (box W75 – see Figure 1).

Please contact your Everllence PrimeServ office for more details.

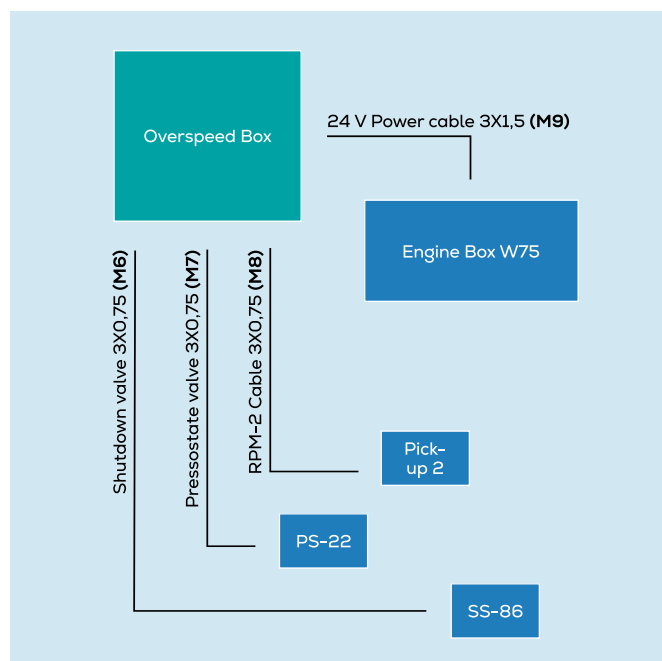


Figure 1: Box W75

# Electronic overspeed protection

Protect GenSet from uncontrolled overspeed

## Key benefits

- Minimizes the risk of breakdown due to overspeed of engine
- Easy to test by simulating overspeed instead of actually overspeeding the engine
- More reliable overspeed protection
- Efficient regardless of lubricant residue or debris around the mechanical trip
- Easy installation with no modification of engine components

## Scope of supply

- Cabinet with control panel, containing a PLC (programmable logic controller)
- Electronic inductive speed pickup sensor
- Pressure switch and needle valve for lube oil pressure
- Pneumatic solenoid valve
- Shuttle valve – for installation in parallel with the mechanical overspeed protection
- Installation accessories

## Applicable to

Available for engine types L23/30H, L28/32H, and V28/32S

## More information

Contact your local Everllence PrimeServ office for more information about the product and how the upgrade can improve your specific engine.

## Everllence PrimeServ

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