



Sensors



Switches



Controls

Application notes



Application Note : September 2021

Market involved : Mobile equipment

Product : ICS E1 inductive sensors

Customer : Manufacturers of concrete mixer trucks

Subject : IP69K protection to withstand high pressure and high temperature cleaning processes

CUSTOMER ISSUE :

Professional concrete truck drivers understand well the importance of frequently cleaning their vehicles to avoid the hard job of using a chipping hammer.

For this reason, trucks periodically undergo high pressure and high temperature wash downs to remove concrete build-up, dirt, dust, grease, oils and soil accumulated during daily operations.

After the washing cycles some sensors stop working due to moisture and water penetration inside the electronics with consequent downtime of the truck.

OUR SOLUTION :

The ICS E1 approved sensors have been designed with a special sealing to avoid any water and moisture penetration during these demanding washing cycles.

IP69K protection degree certifies the sensor is protected against close-range high pressure, high-temperature spray downs.

BENEFITS :

- Certified IP69K resistance against high pressure and high temperature washing cycles
- IP68 ingress protection degree certifies ICS sensors are suitable for continuous immersion in water at two meters depth for 24 hours
- All components have been selected to allow safe and continuous operation between -40 and +85°C