



## Fatigue sensor

The [MR688-RS232 fatigue sensor](#) is a safe driving system designed for commercial fleets that can connect to Ruptela devices via an RS232 interface. The device alarms the driver upon detection of fatigue, distraction, or a missing portrait. It also provides on-demand image output to the fleet management system when either of the alarms is triggered. These images serve as evidence to check the driver's real state and along with other data, it helps the management centers to further improve driver safety and performance.

### Applications

- Driver fatigue monitoring
- Driver behavior education
- Accident prevention

### Key Features

- Fatigue alert
- Looking away from the road alert
- Image sending to FMS
- Customizable sensitivity

### Compatibility

✓ HCV5	✓ LCV5	✓ Pro5	⊘ Trace5
✓ FM-Tco4 HCV	✓ FM-Tco4 LCV	✓ FM-Pro4	✓ FM-Eco4 RS T
			⊘ FM-Eco4

## Detailed specifications

### Environmental specifications

<b>Temperature range</b>	Working: -10 to +50 °C Storage: -45 to +85 °C
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### Electrical specifications

<b>Power supply range</b>	9 – 32 V DC
<b>Power supply voltage</b>	12/24 V DC
<b>Average power consumption</b>	@ 12 V DC: ~340 mA @ 24 V DC: ~180 mA

### Technical specifications

<b>Camera type</b>	CMOS
<b>Video output</b>	NTSC/PAL (optional)
<b>Video resolution</b>	CVBS Black and white
<b>Detection distance</b>	60 – 100 cm
<b>Detection accuracy</b>	96%

### Cable pinout

Wire colors	Description
Black	Ground
Red	Power supply
Blue	RS232 connection (connects to FM device RS232 port RX cable)
Green	RS232 connection (connects to FM device RS232 port TX cable)

### Interfaces

<b>User interface</b>	4 x DIP switches
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### Physical properties

<b>Dimensions</b>	91.5 x 42.5 x 127.5 mm
<b>Housing</b>	Plastic

## Ordering information

<b>MR688</b>	Driver fatigue sensor
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### Contact information:

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Datasheet v1.0  
2020-08-28