

## PHOENIX<sup>MDS</sup> DRD DERAILMENT DETECTION



PHOENIX



DRD  
Derailment  
Detection

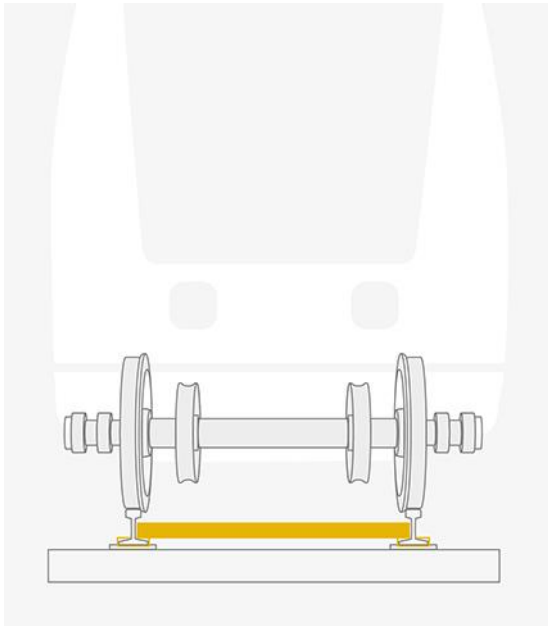
### Infrastructure Protection

As the major component of each railway, the rails have to be observed with exceptional attention. Each maintenance has to be planned with a vast amount of preliminary work. Unplanned maintenance as well as accidents causes a lot of additional effort since neither the manpower is available, nor the train schedule is adapted. Hence, such an unplanned incident is accompanied by a lot of extraordinary issues. For the customer it means in the best cases train delay or even worse cancellation of service.

As a serious danger for rail vehicles derailed wheels cause considerable damage to railway infrastructure. The Derailment Detection function PHOENIX<sup>MDS</sup> DRD is designed to detect derailed wheels and informs the dispatcher instantly.

### Key Features

- » Safety management of railway operations
- » Human and asset protection
- » Alarming and intervention
- » Simple sensor design
- » Easy installation with rail clamps
- » Dragging equipment protected
- » Continuous monitoring
- » Low life cycle cost



## SIMPLE SENSOR DESIGN

The PHOENIX<sup>MDS</sup> DRD function detects reliably derailments. For an easy installation the sensor is clamped between the rails and protected by deflector plates against dragging equipment. A derailed wheel destroys the deflector plates and triggers the sensors, so that an alarm is sent to

the dispatcher immediately. For an automated system supervision the system can differ between a derailment and other the function influencing issues like defective cables. This enables the maintainer to establish a condition based maintenance strategy.

### Technical Specifications

Train speed:	0 to 500km/h
Weight of sensor:	44 kg
Weight of protection plates:	4x 5.75kg
Environment:	-40 to +70°C
IP Class Sensor:	IP65

### Options and Variants



Video



Train Talker