

# ZHS1\_USMW\_RS485

System for registration of train-movements  
(Entry/Stop/Starting/Exit/Passing through)



PIS System



RS485



- admission by Deutsche Bahn AG
- connecting to different PIS-systems
- easy set-up
- mounting on walls and ceilings
- maintenance-free



## Description of the SES-Commands

|                   |                    |
|-------------------|--------------------|
| Device Get Params | Parameter read     |
| DeviceSetParams   | Parameter set      |
| DeviceNetStatus   | Networkstatus read |
| DeviceGetStatus   | Status read        |
| DeviceSetStatus   | Status set         |
| DeviceKeepAlive   | Keep Alive Command |
|                   |                    |
| TrackActiv        | Activate           |
| TrackInactiv      | Inaktiviere        |
| TrackStatus       | Status send        |

## Installation

After mounting the sensor, the sensor has to be adjusted (shown in the installation instruction).

There are two different test modes, the impulse-mode and the send-mode

### Impulse-mode:

Pushing down the service-probe until both LEDs are flashing for 3 seconds. Now the different states can be shown:

- Movement (the red LED is blinking)
- Train in the range of the sensor (the green LED is on)

### Send-mode:

Pushing down the service-probe again until both LEDs are flashing for 3 seconds, the send-mode is reached. The different train-states can be send to the PIS-system.

### Leaving the Test-mode:

Pushing down the service-probe again until both LEDs are flashing for 3 seconds, the test-mode is left.

After 4 minutes the service-probe is no more used, the test-mode is leaving automatically.

## Technical facts

|                      |                         |
|----------------------|-------------------------|
| Voltage:             | 12-24 VDC +/-15%        |
| Current consumption: | 250 mA                  |
| Sensor-systems:      | Ultrasonics / Microwave |
| Safety class:        | IP 65                   |
| Max. range:          | 4 m (option 6m)         |
| Temperature range:   | -25°C ... +70°C         |
| Weight:              | 1,9 Kg                  |
| Casing material:     | V2A-Steel               |

## Terminal assignment

|         |                  |
|---------|------------------|
| brown:  | 12-24 VDC +/-15% |
| white:  | 0V               |
| green:  | LON A            |
| yellow: | LON B            |
| pink:   | RS485_A          |
| grey:   | RS485_B          |

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