

ZHS3_USMW_ETH

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



**PIS
System**

TCP/IP



Protocol

Http/1.1 via TCP is used. Port 80 is used via Post. There is no HTTPS.
JSON Format is used.

Ereignis	Object	Typ	Must	Example	Description
Package no.	P	number	yes	{"P":1}	Package no, starting with 0 and also after 99
Authentication	auth	string	yes	"auth":"HNC_AUTH"	
Time stamp	TS	number	yes	{"TS":12345678}	Time stamp
State	E	string	yes	{"E":"EF"}	State information. GF=free track EF= train is approaching HA= train stops AN= train starts AF= train is leaving ST=status message KA=keepalive message
Serial number	SN	string	yes	{"SN":"HNC1234"}	Serial number sensor
Akkus	Sp	number	yes	{"Sp":483}	Not used
Software Version	V	number	yes	{"V":10006}	Software version
Sensortyp	Ty	string	yes	{"Ty": "0"}	Not used
Alarm	AL	number	yes	{"AL":0}	Alarm number
Supply Voltage	Mo	number	yes	{"Mo":2}	Not used
GSM	S	number	yes	{"S":74}	Not used

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 shining)

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 FIA-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: 300 mA
Sensor-systems: Ultrasonics / Microwave
Safety class: IP 65
Max. range: 4 m (6m optionally)
Temperature range: -25°C ... +70°C
Weight: 1,9 Kg
Casing material: V2A-Steel

Terminal assignment

brown: 12-24 VDC +/-15%
white: 0V
green: Rx+
yellow: Rx-
pink: Tx+
grey: Tx-

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