



wavetec Barrier

Radar Barrier is the highly intelligent alternative to a regular light barrier.

advantage: not any distraction by dirt or normally bad detecting conditions like rain for example.

The detector version described in the following is just one of many. There are several ways to combine our huge range of possibilities to serve any individual cause. So usually individual adjustments for our customer solution are possible!

Operation

wavetec Barrier is an advanced alternative to a regular light barrier. With its radar technology it is not influenced by dirt or bad sight conditions like rain for example. Also an unobtrusive montage is possible to make the detector and its measurement invisible. The built in micro controller monitors if the radar barrier is interrupted and causes a relais contact.

With additional options the "Barrier" works even more effective. Using the USB interface option you are able to adjust the Relais Failsafe function, relais dwell time, channel number and operation time. Also you can readout and reset a counter which ranks the amount of barrier interruptions. The radar barrier can be extended by an RS485 interface to communicate with external devices. For example: This way the amount of passing trucks could be transmitted to a display or mechanical systems.

details

power supply:

- o supply voltage: 10VDC – 35VDC
- o exhaustive discharge protection (battery): 12V
- o overvoltage protection: Yes
- o polarity protection: Yes
- o overcurrent protection: Yes (fuse)
- o supply current: 100mA
- o supply current (Puls): 350mA
- o power consumption: 1,2W

measure unit:

- o radar: 24,125 GHz, K-Band
- o output power: 5 mW
- o modulation: ASK
- o radar beam angle: 13°x13° (Spear)
- o measuring range: bis zu 160m (One Way) / 80m (Reflector)

interfaces / display:

- o 2x Relay: 250VAC, 8A
- o 3x dual-colored LEDs showing operation status

options:

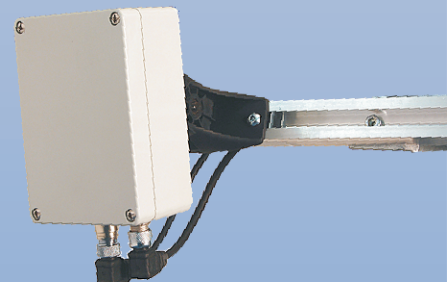
- o USB 2.0 interface
- o RS485 interface
- o Real time clock for adjusting operation time
- o 110VAC – 230VAC with external power supply
- o 24V exhaustive discharge protection (battery)

housing:

- o w x h x d: 100mm x 120mm x 55mm
- o weight: 500 g
- o material: ABS
- o protection class: IP65

operating conditions:

- o temperature range: -20° ... +60° Celsius



pluggable version*



aluminium housing*



back side*

*(examples of standard versions)