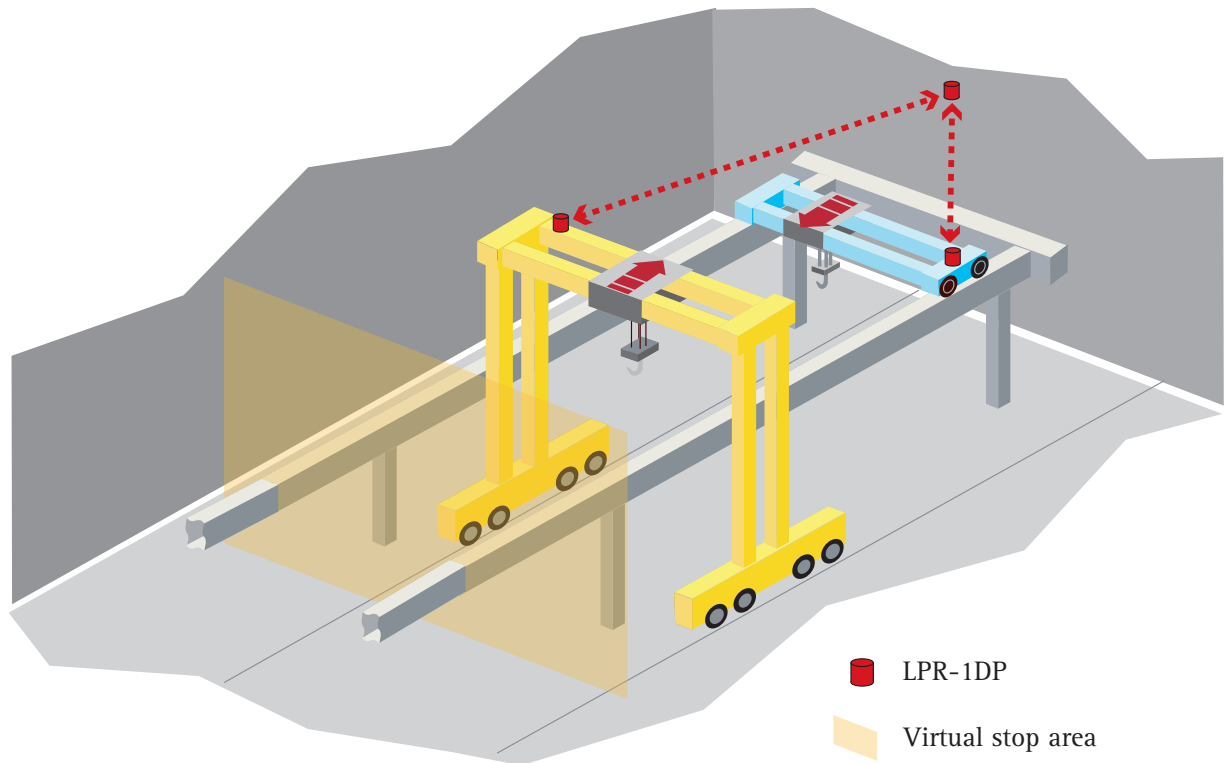


Distance Measurement and Anticollision



LPR-1DP

Distance measurement relative to a fixed reference mark

- Contact-less measurement via radio waves
- Simultaneous transfer of user data
- Unaffected by contamination, weather and vibration
- Usable indoors and outdoors
- No precise alignment necessary
- Easy to configure
- Redundant system set-up for high-security applications
- No additional operating or maintenance costs

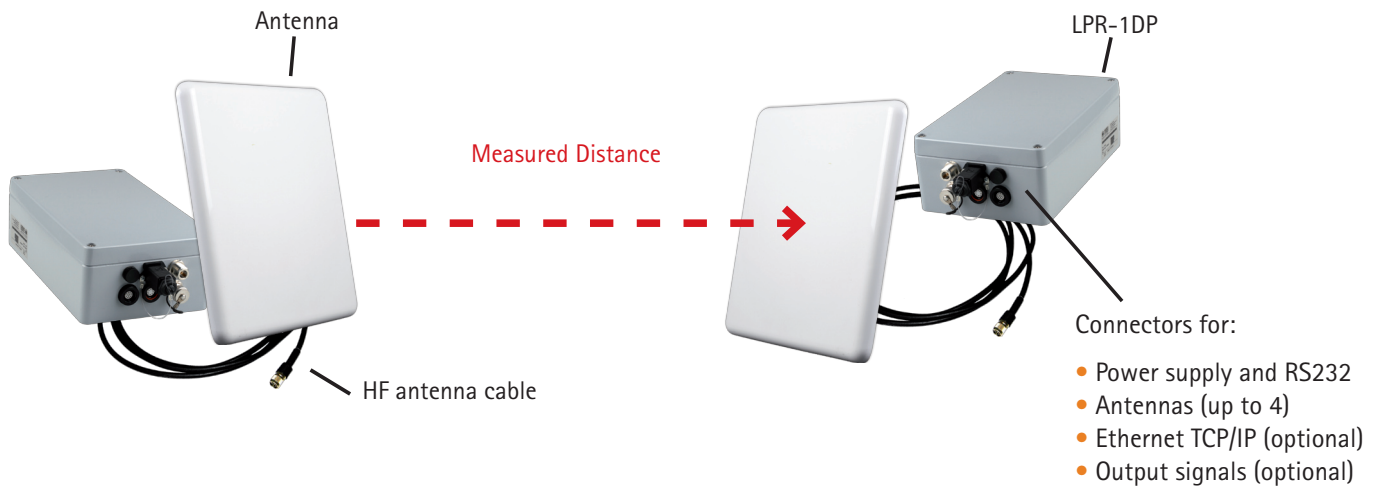
By measuring the distance to fixed reference marks, collisions between moving objects as well as entries into blocked zones can be prevented.

LPR also determines the relative speed between the two objects being measured. This can be used, for example, for varying shut-off points during an approach.

The measured values are available on all LPR-1DP units at the respective device interfaces.

With the integrated SymeoBasic parameterization software, switching points or virtual blocked-off areas can be easily determined based on position and speed. When the freely configurable switching criteria are reached, potential-free contacts can be opened via the optionally built-in switching relays based on the traveling direction.

The simultaneous, interference-free operation of a radio data network (WLAN) is possible.



Technical Data: LPR-1DP	
Frequency range	5.725-5.875 GHz, ISM-band
Output power	Max. 0.025 W EIRP
Measuring distance	Up to 1,800 m *
Typical accuracy	Up to ± 5 cm *
Repeat rate	Max. 30 Hz
Voltage	10-36 V DC
Power consumption	4-8 W at max. update rate
Ambient temperature	-40 °C to +75 °C
Protection class	Up to IP65
Housing dimensions (LxWxH); weight	260 x 160 x 91 mm; 2.5 kg
Hardware interface	Serial RS232, TCP/IP (optional), 7x dry contacts (optional, rating: max. 10 W, max. 60 VDC, max. 0.5 A)
Data interface	Syмео binary protocol, ASCII protocol optional with TCP/IP
User data transfer rate	8 bytes/cycle, up to 800 byte/s
External connector type	Plug
Antenna(s)	Up to 4 antennas, N-Connector
Compliance	CE mark

* depending on the type of antenna and application conditions