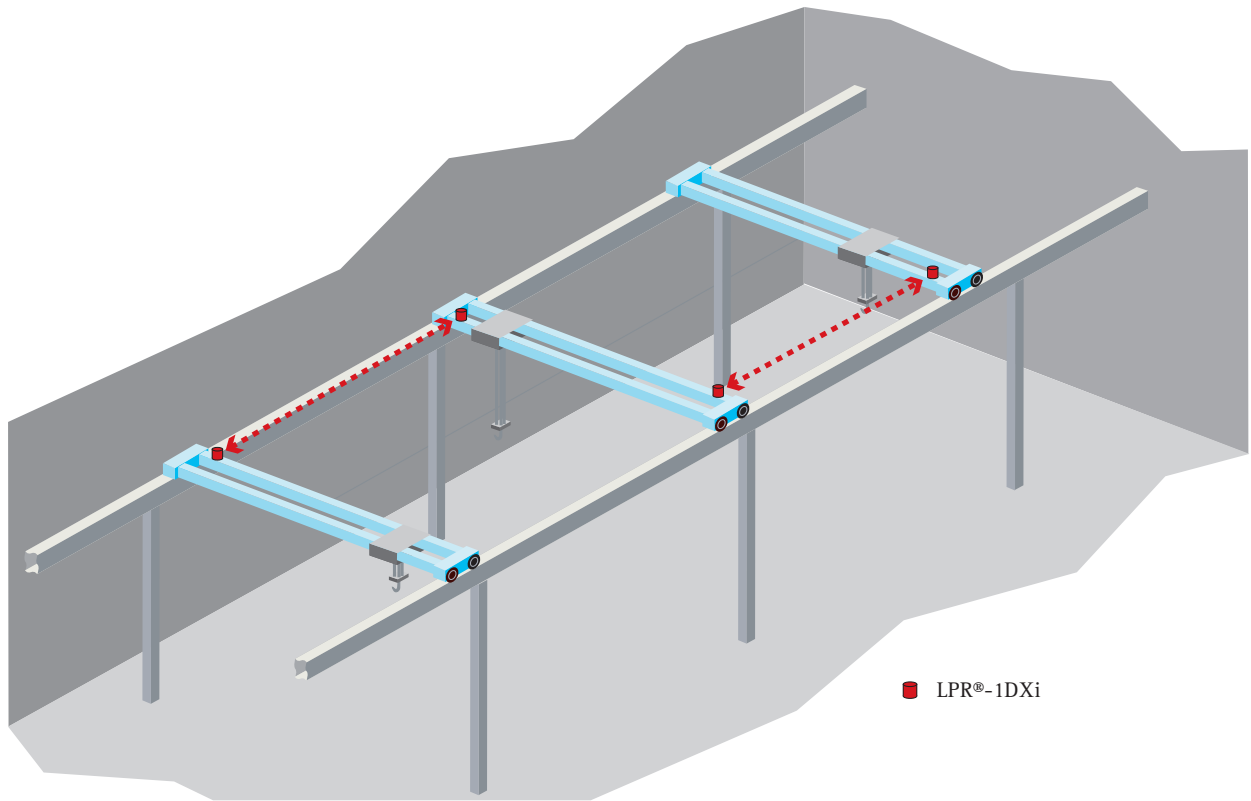


Distance Measurement and Collision-Avoidance



LPR®-1DXi

Reliable distance sensor and controller

- Contact-less measurement via radio waves
- Unaffected by contamination, weather and vibration
- Suitable for indoor and outdoor usage
- No precise alignment necessary
- Easy to install and configure
- Redundant system set-up for safety relevant applications
- No additional operating or maintenance costs

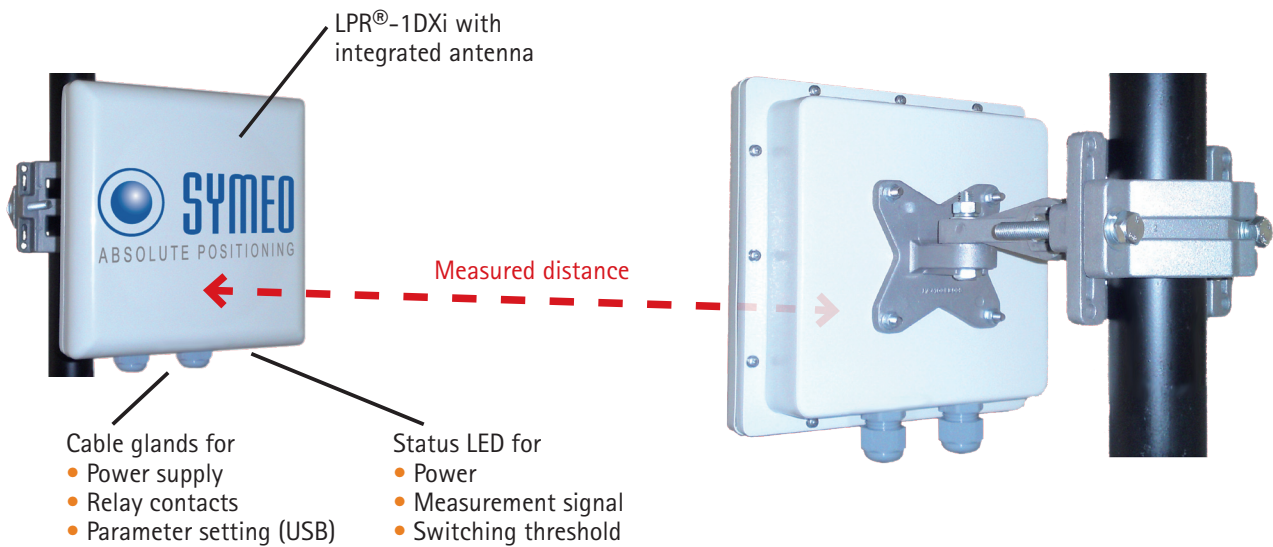
To avoid collisions or to automate processes, LPR®-1DXi sensors measure the distance between two devices by means of radio signals.

All components are integrated in a single casing. The compact units can therefore be mounted very easily and operate maintenance-free, even under harsh conditions. Dust, fog or similar impacts do not influence the system.

LPR® can optionally acquire the relative speed between two units. Varying switch-off points can be applied based on this information.

With the free software *Symeo-Wizard* (via Windows PC) the distances for 5 adjustable switching points are determined and transferred to the LPR®-1DXi device. Upon reaching a switching threshold, on-board relays open dry contacts. Distance readings and relays are available on both of the paired units. Remote units can be configured via the built-in radio interface.

Simultaneous, interference-free operation of a radio data network (WiFi) is possible.



Technical Data: LPR®-1DXi

Frequency range	5.725–5.875 GHz, ISM band
Output power	Max. 0,025 W EIRP (14 dBm)
Positive signal control to opposite unit	Up to 1000 m
Switching thresholds / distance reading	0 to 120 m (option - extended distance reading: 0 to 500 m)
Distance output	0,5 m increments (option - higher resolution: up to ± 5 cm *)
Repeat rate	Up to 30 Hz
Voltage	10–36 V DC
Power consumption	6 W
Ambient temperature	-40 °C to +75 °C
Protection class	IP 65
Casing dimensions	190 x 190 x 80 mm (without supplied mounting bracket)
Interfaces	USB for parameter setting with Symeo Wizard (for Win PC); serial RS 232 with binary protocol (terminal block inside casing); 7x dry contact relays (terminal block inside casing), max. 60 VDC, max. 2 A
Compliance	CE, FCC

* depending on distance and application parameters