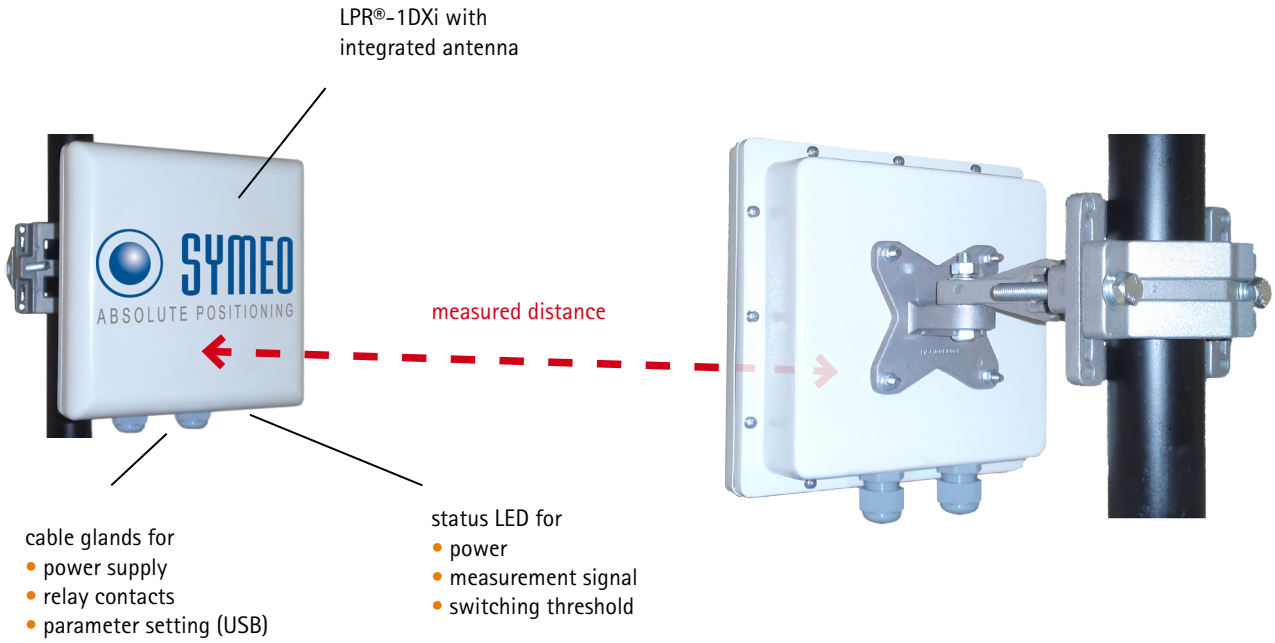
LPR®-1DXi

Data Sheet



LPR®-1DXi

Compact Distance Sensor with Integrated Switching Relay

- Compact design
- Easy to install
- Low investment costs
- Unaffected by contamination, weather and vibration
- Suitable for indoor and outdoor usage
- No precise alignment necessary
- Maintenance- and wear-free
- Increased operational safety due to reliable collision avoidance

LPR®-1DXi is a compact, robust and reliable sensor that features integrated switch relays and an integrated, long-range antenna suitable for indoor and outdoor applications. Typical applications include crane anti-collision systems.

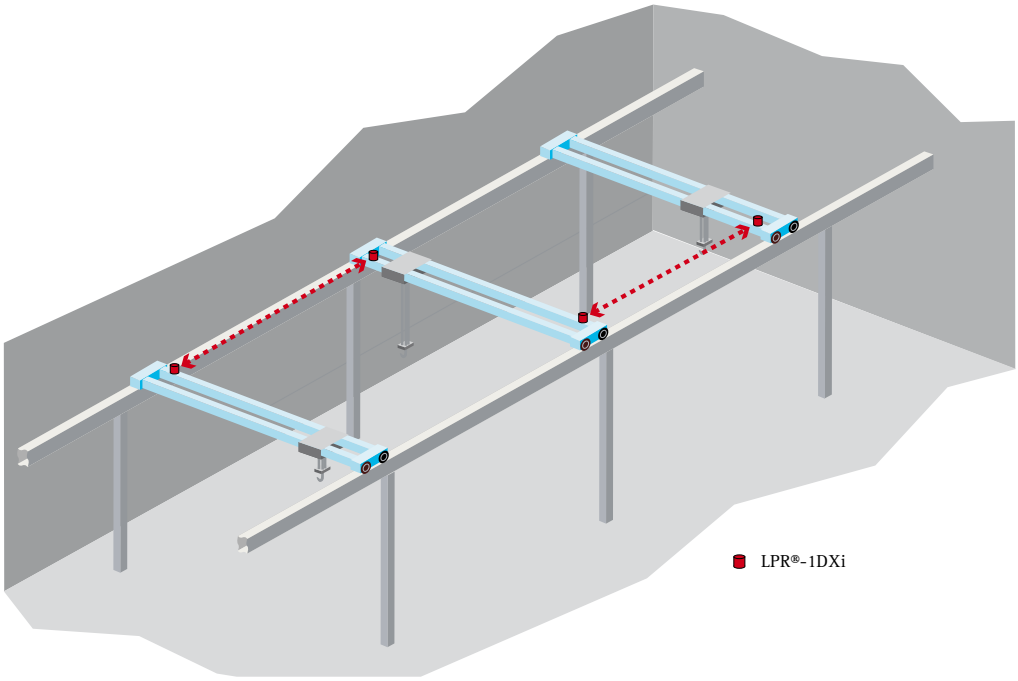
LPR®-1DXi measures the distance between two objects using two sensor units. The data available on both measurement units is accessible in real-time via an RS232 interface.

The rugged sensors are maintenance-free and weather-, dirt- and vibration-resistant. Installation is quick and simple since there is no need for precise alignment. LPR®-1DXi comes with seven configurable switch relays.

The LPR®-1DXi device is simple to commission and operate thanks to the SymeoWizard configuration software. For anti-collision applications, the software can be used to easily set up various triggers (warning/stop barriers, restricted areas) and to configure the switch relays.

Symeo LPR®-1DXi uses the international license-free 5.8 GHz ISM-band. WiFi data networks can be operated in parallel at any time without the risk of interference.

Typical LPR®-1DXi application



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 1.000 m
Switching thresholds / distance reading	0 to 120 m (option - extended distance reading: up to 500 m)
Distance output	0.5 m increments
Repeat rate	up to 30 Hz
Voltage	10-36 V DC
Power consumption	6 W for each unit (continuous operation)
Ambient temperature	-40 °C to +75 °C
Protection class	IP65
Housing dimensions; weight	190 x 190 x 80 mm (without supplied mounting bracket); 1.5 kg
Interfaces	USB for parameter setting with SymeoWizard (for PC); serial RS232 with binary protocol (terminal block inside casing); 7x dry contact relays (terminal block inside casing), contact: max. 60 V DC, max. 2 A
Status indication	LED
Compliance	CE, FCC, IC