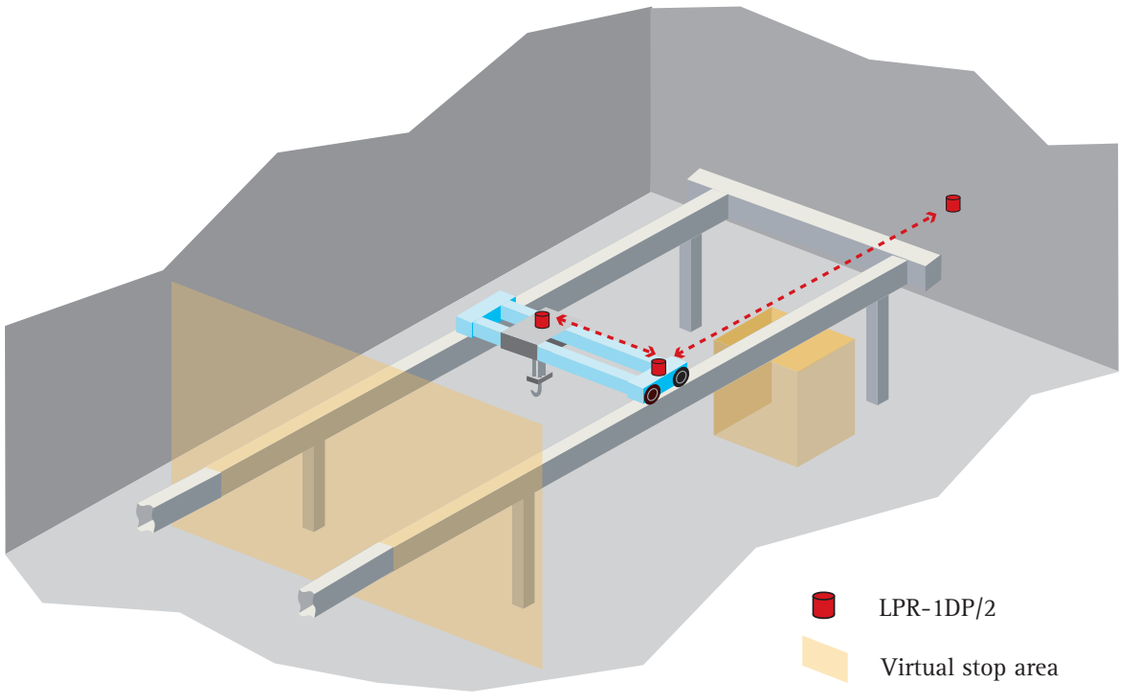
Position Detection and Anti-collision

SYMEO ABSOLUTE POSITIONING

Available in the UK and Ireland only from
CRANE CARE LTD

Data Sheet 2



LPR-1DP/2

Crane bridge and trolley position detection

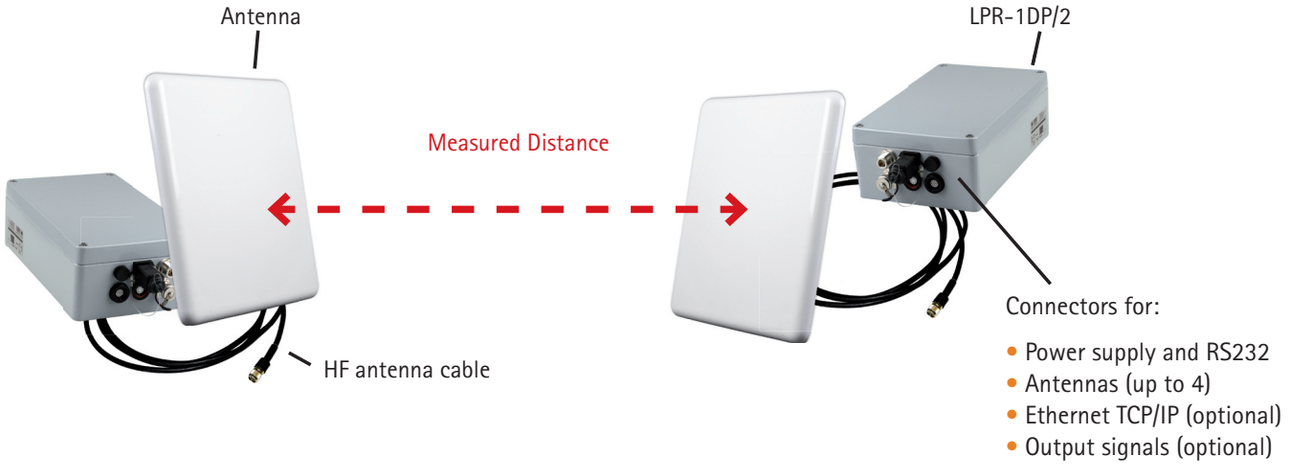
- Easy position detection
- Contact-free measurement via radio waves
- Unaffected by contamination, vibration or the weather
- Usable indoors and outdoors
- No precise alignment necessary
- Easy to configure
- Redundant system set-up for high-security applications
- No additional operating or maintenance costs

By measuring the 1-D distances along the crane track and on the crane bridge, the trolley's 2-D position can be determined in order to avoid collisions and prevent entry into restricted areas. The crane travel path is detected in real time.

LPR-1DP/2 always measures the speed of the object in question relative to a fixed reference mark. This can be used, for example, to vary shut-off points during an approach. The measured values are available on all units at their respective device interfaces.

With the integrated Symeo Basic parametrisation software, switching points or virtual blocked-off areas can be easily determined, based on position and speed. The switching criteria is freely configurable and, when set limits are reached, contacts can be opened via the optional built-in switching relays based on the direction of travel.

A radio data network (WLAN) can be operated at the same time with no interference.



Technical Data: LPR-1DP/2	
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. 200 VDC, max. 0.5 A)
Data interface	Symeo 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*

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