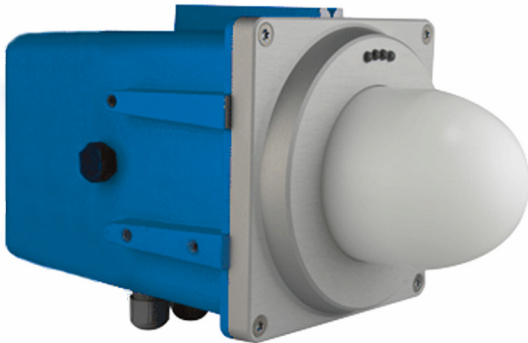




### MDL-F1-DHP RADIO DISTANCE METER SYSTEM

## Precise Crane Position Detection Sensor System



Comprises 2 opposing Sensors

### Features

- ◆ Contactless measurement via radio waves
- ◆ Not affected by contamination, weather or vibration
- ◆ Accommodate substantial mis-alignment between Sensors
- ◆ Mount indoors in harsh conditions or exposed outdoors
- ◆ Easy-to-install Sensors requiring minimal alignment

These MDL-F1-DHP Sensors operate via radio signals between a pair of Sensors for determining distance and provide the position of a crane trolley or bridge to a high accuracy. Furthermore, the relative approach speed between the pair of Sensors can be provided.

Various interface options are available. RS232, Ethernet, TCP/IP, UDP or Profibus on request

These Sensors are easy to install and operate. Rough alignment between facing units is sufficient, even where large distances and the cranes running on uneven rails. The radio antenna is well protected as integrated in the robust Sensor housing and the system is supplied configured for immediate installation.

The technique of radio operation is highly reliable under adverse conditions and accommodates for subsequent mis-alignment between Sensors They do not influence other radio or LAN devices operating in parallel in the area.

### TECHNICAL DATA

Frequency range	61,0-61,5 GHz, ISM-band
Output power	Max 0.1W EIRP
Measuring Range	Up to 500m *
Typical Accuracy	Up to ± 1cm *
Update Rate	Max 25 Hz
Power Supply Voltage	10-36 VDC
Consumption	15 W at max. Update rate
Ambient temp limit	-40°C to + 75°C
Protection Class	IP65
Housing dimensions (LxWxH), Weight	205x140x140mm, 1kg
Interface Options	Serial RS232, Ethernet TCP/IP or UDP (optional) Profibus (optional)
Data Interface	LPR-1D protocol
Connection	Plug
Antenna	Integrated
Compliance	CE Mark , FCC in application

**MODULOC® TECHNOLOGY — Precise Product and Position Measurement**

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