



MCL 550/MDL 550 - the microwave reader

With a proven record in providing quality reliable components, deister's **flexID**® product range continues to expand to meet with the growing customer requirements for solutions in today's applications.



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The MCL 550/MDL 550 is a longrange reading device which was especially developed for applications where identification over a wide distance is required. Due to the high speed detection and the possibility to mount the transponder directly onto metal surfaces, this system is perfectly suited for vehicle and container identification.

The write function (MDL 550) presents additional opportunities for further applications in the industrial field.

The variable operating frequency enables the deister system to operate a number of readers at the same time without any interferences, which is especially necessary in narrow spaces and overlapping fields.

Additionally, with its implemented anticollision protocol several transponders can be identified and evaluated in the antenna field.

Easy mounting, various interfaces, hence quickly and easy installed.

- **Service friendly**
- **Adjustable reading range**
- **High-Speed reading**
- **Long range reading**
- **Variable operating frequency**
- **IP 65**
- **Rugged**
- **Up to 32 readers cross-linkable**
- **Anticollision**

Technical Data

Housing:	325 x 162 x 100 mm Polyester, glass fibre-reinforced, grey
Protection:	IP 65 by IEC 529 (DIN 40050)
Operating temperature:	-20 °C...+60 °C
Storing temperature:	-40 °C...+60 °C
Supply voltage:	12...30 V/DC
Power consumption:	2 W
Operating frequency:	2,45 GHz ±15 MHz
Max. reading range:	8 m
Max. writing range:	0,5 m
Max. object-speed:	> 100 Km/h
Data-transfer-speed:	Transponder → Reader: 16 kBit/s Reader → Transponder: 4 kBit/s
Memory organization:	up to 112 Bit user data
Transponders types:	MCC 501, MCC 503, MDC 501, MDC 503
Interface:	RS 232, RS 485
Anticollision:	Identification of several transponders in the reading field