



	MD1	MD3	MD10	MD40
	Visual Indication	Visual Indication Machine Control Plumb indicators	Visual Indication Machine Control	Visual Indication Machine Control Moveable on grade*
Deadband:	±3mm / ±17mm	±3mm / ±17mm	± 6mm (standalone) ≥ ±2mm (Machine control)	± 13mm (standalone) ≥ ±3mm (Machine control)
Plumb Indicators:	–	±3°	–	–
Power:	Internal battery	Internal battery	External	External
Diameter:	99mm	99mm	Oval 130x75mm	Oval 130x75mm
Measurement window:	190mm	190mm	190mm	330mm
Length:	260mm	260mm	290mm	435mm
Weight:	2 kg	2 kg	2,5 kg	3,5 kg
Operating time:	10 hours after quick recharge (45 min) 30 hours after normal recharge (14 hours)	10 hours after quick recharge (45 min) 30 hours after normal recharge (14 hours)	External powered	External powered

* The on grade can be moved over the whole range, but only when the sensor is used for Machine Control.



Since the start in 1987 Mikrofyn A/S has placed itself among the top-five worldwide manufacturers of professional precision lasers and machine control systems.

The profits of the business are reinvested in new products and growing the business. Mikrofyn is built upon sound principals of developing and manufacturing state-of-the-art products, supported by experts and cooperating with outstanding professional local distributors.

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HR-Design.dk

MD LaserReceiver™

Highest possible accuracy wherever you need it



MD LaserReceiver™ = no more stakes, string lines, checkers and re-work

Mikrofyn MD LaserReceiver™ System – the first choice when you go for durability, accuracy and efficiency

How does the MD LaserReceiver™ work

The MD LaserReceiver™ System consists of two primary components:

- A Rotation Laser, which transmits a laser beam with the desired inclination.
- A MD LaserReceiver™, which is mounted on the machine.

Once the Rotation Laser is set up with the desired slope, the MD LaserReceiver™ indicates when the machine is On-Grade. The receiver is typically mounted on a 50mm cylindrical tube.

When working on an excavator, the receiver is placed on the stick or bucket.

When working on a bulldozer, the receiver is placed on the centre of the bulldozer blade.

When working on a grader, a receiver is placed on either one or both sides of the grader blade.

In addition to the MD LaserReceiver™, an IRlinked Remote Display RD1 or RD3 can facilitate certain types of difficult jobs by moving the display inside the operator's cab. An optional moveable IR-receiver ensures that the communication between the receiver and the remote display never is obstructed.

Where to use the Machine Detector

With a MD LaserReceiver™ mounted on an excavator, bulldozer, backhoe or grader, one man can produce a level or inclined grade without an assistant, and do the job by day or night.

The MD LaserReceiver™ is ideal for anyone doing site preparation work, rough or fine grading, paving, excavating, trenching or pre-construction surveying for cut and fill plans. All of our MD LaserReceivers™ work with any Rotating Laser.

Your benefits when using a MD LaserReceiver™ are:

- The MD LaserReceiver™ saves time as one Rotation Laser, one MD LaserReceiver™ and one machine operator can make up the entire levelling and grading team.
- The MD LaserReceiver™ eliminates the unnecessary work represented by stakes, string lines, checkers and re-work.
- Improves the operating accuracy of your construction equipment.

MD 3 features

- 360° Detector with large capture range.
- Battery operated, charger included (12/24V).
- Detects any rotating laser beam.
- 9 channels of grade data.
- 5-light display.
- IR-link for remote display.
- Narrow/Wide switch.
- 8-pin socket connectable to 8-wire cable to control boxes and remote display RD3.
- Programmable for Symmetrical, Asymmetrical and Inverse Display.
- Internal control box.
- Plumb indicators for increased accuracy.
- Programmable tilt range.
- IR transmission of both grade and tilt to remote display.

MD 10 Features:

- Proportional detection - "Highest possible accuracy where you need it".
- 2.5 mm (1/10") accuracy independent of beam width.
- 360° capture range in 190 mm (8") window.
- Light and very robust design.
- Works with all types of lasers.
- Totally water- and dustproof (IP68).
- Rugged MIL connector with quick lock to CAN bus interface.
- 7 channels of grade information.

- 4 programmable channels allow multiple systems on a single job site.
- Bracket mounted with strong rubber shock absorbers.
- 100% Waterproof.
- Rugged transport case (optional). RD 3 features
- 5-light display.
- Narrow-wide switch.
- Monitors battery condition in the detector.
- IR-link to MD 1, MD 2 or MD 3 (no cable).
- Acoustic signals.
- 3-light display of plumb indication.
- Channel selection by dipswitch.
- Supplied by power cable or an internal battery (optional).

MD 40 Features

- The MD 40 features 32 cm of adjustable proportional reception height with a variable on-grade position point (Variable set point). Increases the ease of setup and allows for benching during grading applications.
- Accuracy = ±2.5 mm is independent of beam width and insures accurate operating results.
- Capture angle is 360 degrees.
- Working diameter 750 m with standard ML 2/3/4 transmitters, 1000 m with the new ML 3A & 1750 m with the ML 3/4VD.
- Use with all Mikrofyn automatic control boxes (CB 1, CB 1A & CB 4).
- Works with all types of lasers.
- Totally water and dustproof (IP68).
- Rugged military connector with quick lock.
- Quick Clamp design is easy to install on fixed or telescoping mast and insures the MD 40 is secure when mounted.
- Weighing only 3.2 kg the MD 40 is light while being highly robust in design using the same physical design as the MD 10.
- Physical measurements: 43 cm tall, 13 cm wide & 8.5 cm deep (23 cm including bracket).

MD 1 features

- 360° Detector with large capture range.
- Battery operated, charger included (12/24V).
- Detects any rotating laser beam.
- 9 channels of grade data.
- 5-light display.
- IR-link for remote display.
- Narrow/Wide switch.
- 4 programmable channels allow multiple systems on a single job site (optional).
- Bracket mounted with strong rubber shock absorbers.

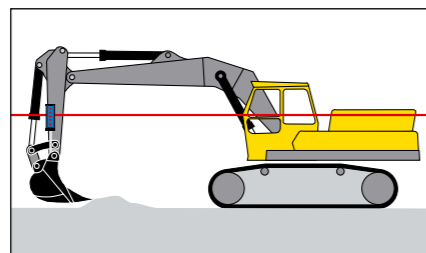
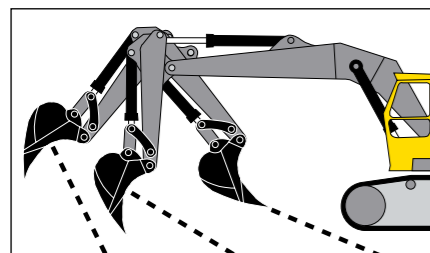
- 100% Waterproof.
- Rugged transport case (optional).

RD 1 features

- 5-light display.
- Narrow-wide switch.
- Monitors battery condition in the detector.
- IR-link to MD 1, MD 2 or MD 3 (no cable).
- Acoustic signals.
- Channel selection by dipswitch.
- Supplied by power cable or an internal battery (optional).
- 4 selectable channels for IR connection.



The Basic System



The Versatile System

