



DMT

Proven distance measurement on natural objects for large sensing ranges

LONG RANGE DISTANCE SENSORS

SICK
Sensor Intelligence.



Technical data overview

Measuring range	0.5 m ... 155 m, 90 % remission, 18 % remission, 6 % remission (depending on type)
Repeatability	7 mm 10 mm
Accuracy	± 10 mm
Target	Natural objects
Serial	✓, RS-232, RS-422
PROFIBUS DP	✓
Measurement cycle time	0.977 ms
Output time	1 ms ... 4,000 ms
Ambient temperature operation	-10 °C ... +55 °C -10 °C ... +75 °C, operation with cooling case
Ambient storage temperature	-25 °C ... +75 °C

Product description

DMT10-2 distance sensors are designed to perform in the toughest environments, such as fog, rain, steel mills, wood processing, etc. They offer a wide measurement range from 0.5 m up to 155 m. The DMT's variety of adjustable software tools allow users to cope with challenging environments.

At a glance

- Long range distance sensor with infrared laser featuring time-of-flight measurement
- Measurement on natural objects
- Versions with RS-422/RS-232 (switchable), analog output, and 2 switching outputs or with PROFIBUS and RS-232
- Special versions for measurement on hot surfaces

Your benefits

- Flexible for both indoor and outdoor use
- Rugged metal housing for harsh ambient conditions
- User-friendly parameterization software enables quick and cost-optimized commissioning
- Simple alignment using visible alignment laser
- Laser class 1 and therefore eye-safe

Ordering information

Other models and accessories → www.sick.com/DMT

- **Measuring range:** 0.5 m ... 20 m
- **Repeatability:** 7 mm, 10 mm
- **Accuracy:** ± 10 mm (23 °C air temperature, 977 hPa, min. warm-up time 30 min.) (When operating in ambient temperatures between +40 °C ... +55 °C the accuracy can decrease by factor 2.5.)
- **Power consumption:** ≤ 6 W (Without load.)

Communication interface	Digital output	Type of analog output	Type	Part no.
PROFIBUS DP	-	-	DMT10-2-1213	1027606
Serial	2 x PNP	Current output	DMT10-2-1113	1027605

- **Measuring range:** 0.5 m ... 155 m, 90 % remission, 0.5 m ... 65 m, 18 % remission, 0.5 m ... 40 m, 6 % remission
- **Repeatability:** 7 mm, 10 mm
- **Accuracy:** ± 10 mm (23 °C air temperature, 977 hPa, min. warm-up time 30 min.) (When operating in ambient temperatures between +40 °C ... +55 °C the accuracy can decrease by factor 2.5.)
- **Communication interface:** PROFIBUS DP
- **Power consumption:** ≤ 6 W (Without load.)

Type	Part no.
DMT10-2-1211	1027604
DMT10-2-2211	1028541

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com