



DML

Proven distance measurement on reflector for large sensing ranges

LONG RANGE DISTANCE SENSORS

SICK
Sensor Intelligence.



Technical data overview

Measuring range	0.5 m ... 600 m, on reflective tape "Diamond Grade" 0.5 m ... 800 m, on reflector PL880FS01 0.5 m ... 1,200 m, on reflector OP60
Repeatability	6 mm
Accuracy	± 10 mm
Target	Reflector
Serial	✓, RS-232, RS-422
PROFIBUS DP	✓
Measurement cycle time	0.195 ms
Output time	1 ms ... 600 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

DML40 sensors are designed for very large sensing ranges. Time-of-flight measurement enables measuring ranges of up to 1,200 m on one reflector, thus offering access to many applications in which large sensing ranges are the order of the day. A rugged design along with numerous configuration options via a software program underlines the versatility of this product family.

At a glance

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

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/DML

- **Measuring range:** 0.5 m ... 600 m, on reflective tape "Diamond Grade", 0.5 m ... 800 m, on reflector PL880FS01, 0.5 m ... 1,200 m, on reflector OP60
- **Repeatability:** 6 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	–	–	DML40-2-1211	1027608
Serial	2 x PNP	Current output	DML40-2-1111	1027607
			DML40-2-1111S01	1044053

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