



DISTANCE MEASUREMENT SYMPTOM CHECK WITH DR. DISTANCE

EVER SUFFERED FROM THE FOLLOWING SYMPTOMS?

- ☐ Inaccuracy
- ☐ Susceptibility to faults
- ☐ Difficulty with background objects
- ☐ Detection difficulties
- ☐ Sensitivity to cold
- ☐ Short range of vision



OPTIMAL DISTANCE MEASURING – VDM28 WITH PRT

There are many types of sensors available for measuring distances and all employ different measuring principles. However, these sensors often do not perform properly because the application conditions are not “conventional.”

This results in incorrect or inaccurate measurements.

Have you ever had measuring problems when dealing with dark objects, an influx of ambient light, several objects in a beam, or using several sensors within an application?

DIAGNOSIS OF DR. DISTANCE

The measuring method used has a weak pulse!

*Dr. Distance:
“When encountering problems
measuring distances, I always
recommend a healthy dose of PRT.”*



*Dr. Distance is a
global expert in
industrial distance
measurement.*

WHAT IS PRT?

PRT is an abbreviation for **Pulse Ranging Technology** – the most precise industry-grade distance measuring process.

PRT PRINCIPLES OF OPERATION

In this most advanced optical method of distance measurement, a laser diode transmits short pulses of light that are reflected on the target object and then captured by a light-sensitive receiver element. The power of a single pulse is up to one thousand times more intense than the power of pulses generated by sensors that emit permanent light beams.

REMEDY – VDM28 WITH PRT

We recommend using the most precise method for measuring and monitoring: the VDM28 **distance measurement sensor**. The VDM28 can be used in a wide range of industries and applications and far exceeds the limits set by sensors with background suppression. With a small, clearly visible red light spot, the VDM28 delivers accurate, reliable, clear, and repeatable results regardless of environmental conditions such as target surface, color, or ambient light. With the teach-in function and the IO-Link interface for service and process data, the VDM28 easily adapts to specific applications.

TECHNICAL DATA

Measurement range	0.2 m to 8 m
Light source	Visible red laser Class 2
Resolution	1 mm
Repeat accuracy	< 5 mm
Absolute accuracy	≤ 25 mm
Operating voltage	10 V DC to 30 V DC
Load current	Max. 100 mA
Response time	10 ms
Signal output	Two 4-in-1 outputs
Ambient light resistance	50,000 lux
Temperature range	–30 °C to 50 °C (–22 °F to +122 °F)
Dimensions (WxHxD)	88 mm x 26 mm x 54 mm

ADDITIONAL FEATURES



- Smallest device with PRT
- High repeat accuracy
- Two switching points per output
- Cross-talk protection
- IO-Link interface



IO-Link

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